

EI-CORE elements

This section presents a short introduction to some of the main elements in EI-CORE.

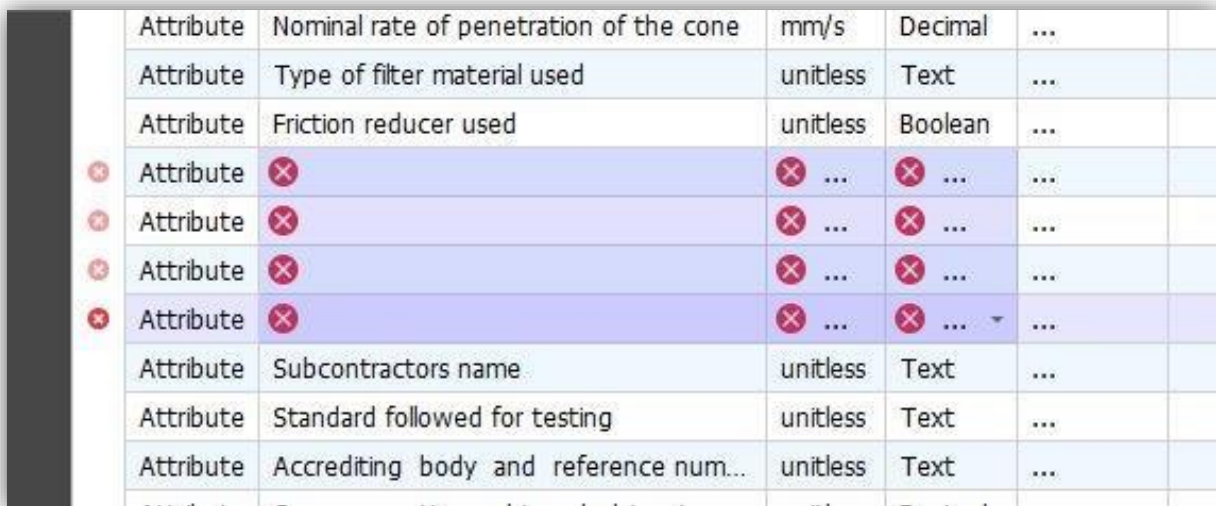
Power Edit

EI-CORE version number: 2.05.00.00

Document revision date: 2020-02-13

When entering values in EI-CORE, the usual and most secure way is in the **Data Entry** mode. But for advanced users with the need to edit multiple entries **Power Edit** mode can be toggled.

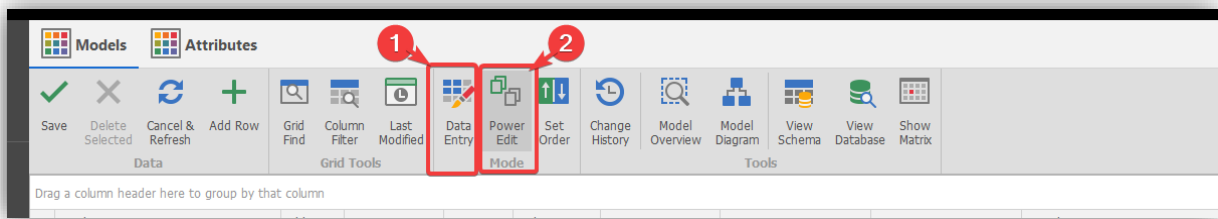
Please notice, that some checks and warnings that apply to the basic Data Entry mode, are disabled or has a different behavior during Power Edit: Whenever EI-CORE detects a malformation of values edited with Power Edit, The mal formed cell values are marked with a red circle with an X. Saving of the values will not be possible before the values are corrected in accordance with the rules and constraints that are applied to the respective model:



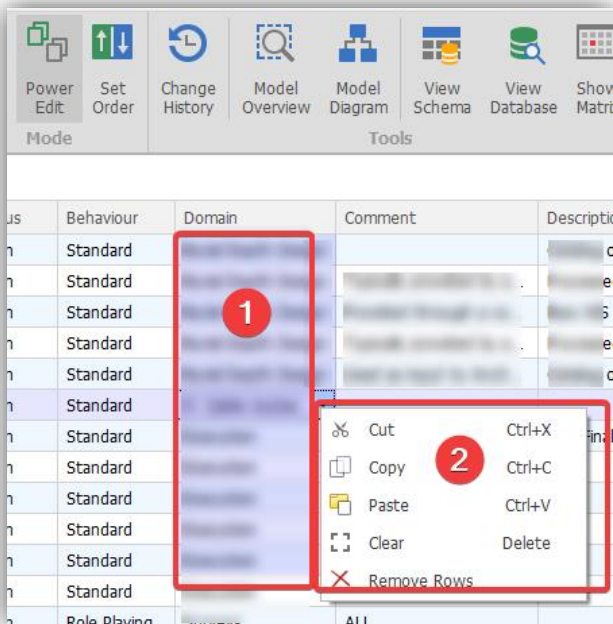
The screenshot shows a table with 7 columns and 11 rows. The first four rows are highlighted in light blue. The first column contains red 'X' icons in the 4th, 5th, 6th, and 7th rows. The 4th, 5th, 6th, and 7th rows are highlighted in light purple, indicating validation errors. The 4th row has a red 'X' in the second column and '...' in the third and fourth columns. The 5th, 6th, and 7th rows have red 'X' icons in the second column and '...' in the third and fourth columns. The 7th row also has a dropdown arrow in the fourth column. The 8th, 9th, 10th, and 11th rows are not highlighted and contain valid data.

Attribute	Nominal rate of penetration of the cone	mm/s	Decimal	...		
Attribute	Type of filter material used	unitless	Text	...		
Attribute	Friction reducer used	unitless	Boolean	...		
✘	Attribute	✘ ...	✘ ...	...	
✘	Attribute	✘ ...	✘ ...	...	
✘	Attribute	✘ ...	✘ ...	...	
✘	Attribute	✘ ...	✘ ... ▾	...		
Attribute	Subcontractors name	unitless	Text	...		
Attribute	Standard followed for testing	unitless	Text	...		
Attribute	Accrediting body and reference num...	unitless	Text	...		
Attribute	...	...	...	...

To toggle power Edit mode, select the **Power Edit** Button(2) from the task bar. To return to normal mode, Select **Data Entry(1)**:



To mark Cells, click and drag to highlight desired area(1). Right-click to display a list of actions(2) or use standard keyboard shortcuts.



The options are standard editing options:

Cut clears content from the selected cells and copies it to the clipboard.

Copy copies content from selected cells to the clipboard.

Clear deletes content from selected cells

Remove Rows deletes highlighted rows, that have not been saved.

Pasting

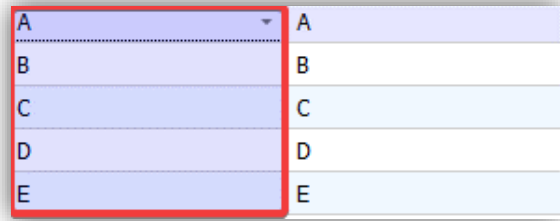
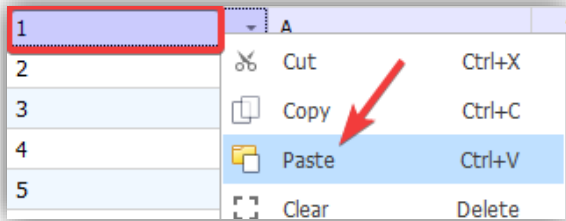
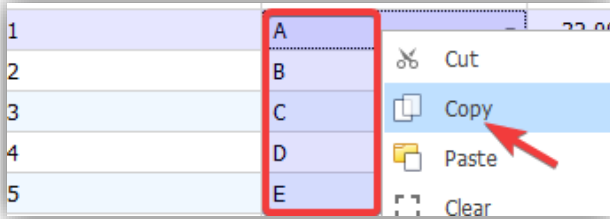
Paste pastes the clipboard content into the selected cells by the following principles.

Constraints

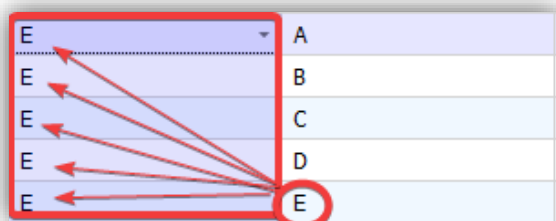
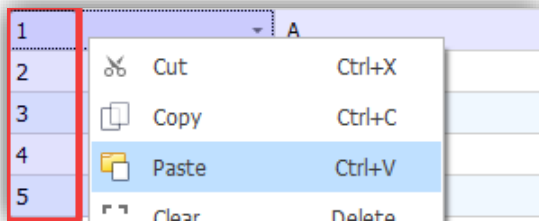
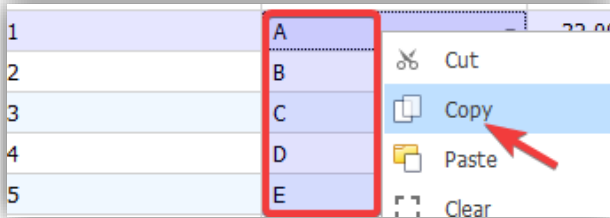
- Destination cell must not be locked
- Source- and destination Cell must be of the same type

Copy-paste behavior

If the destination area is a single cell, the clip-board content will overwrite the existing content of the target cell **and all cells below the target cell** until all cell values from the clip-board has been pasted:



If the destination area consists of multiple cells, the value from the last cell (the one to the lower right) from the source area will be populated into all cell in the destination area:



Paste as new row

To paste content as a new row, mark the row or, as in this example, only selected values (pressing and holding ctrl-key while right-clicking desired fields will accomplish that), first mark desired values and copy to the clip-board:

Attribute	%	Text/50 chars	Some Attribute	...	Some Comment	Some Description	10,00000	Some example
-----------	---	---------------	----------------	-----	--------------	------------------	----------	--------------

Scroll down to the last, empty row at the grid, right-click and select **Paste As New Rows:**

Attribute	%	Text	Some Attribute	...	Some Comment	Soil moisture	19,00000	
Attribute	%	Text	Some Attribute	...	Some Comment	Some Description	10,00000	Some example
...

The selected values will no be pasted into a new row under their respective headlines:

Attribute	%	Text/50 chars	Some Attribute	...	Some Comment	Some Description	10,00000	Some example
Attri...	...	...	Some Attribute	...	Some Comment		0	

Pasting into Spread Sheet:


To paste into a spread sheet like Excel or similar, simply mark the desired fields and copy the content into the clip-board:

1	A
2	B
3	
4	
5	

In the target application, select insert-point and insert/paste(1) clip-board content. The values and their respective headings(2), will automatically transfer:

Comment	Description	
1	A	
2	B	
3	C	
4	D	
5	E	

Paste Options:

 **1**

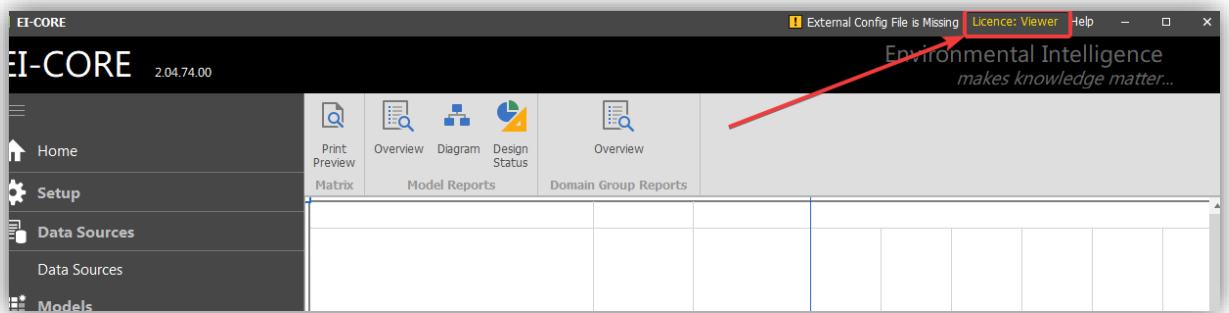
Claiming a licence

EI-CORE version number: 2.04.74.00

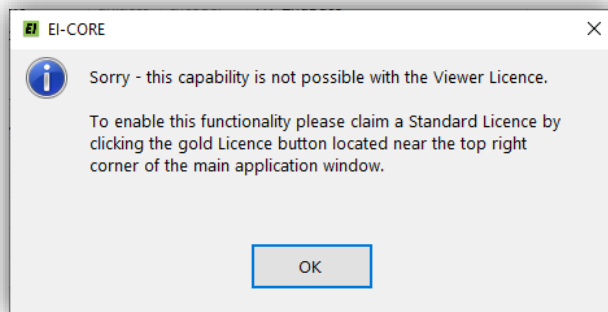
Document revision date: 2020-01-22

By default, the user is assigned a **Viewer-Licence** that grants some basic rights such as browsing data. Editing and Certain other operations requires a **standard licence** to perform. If a standard license has been purchased and is available, it can be claimed within EI-CORE:

- The current license level is displayed in the top right Corner of EI-CORE:

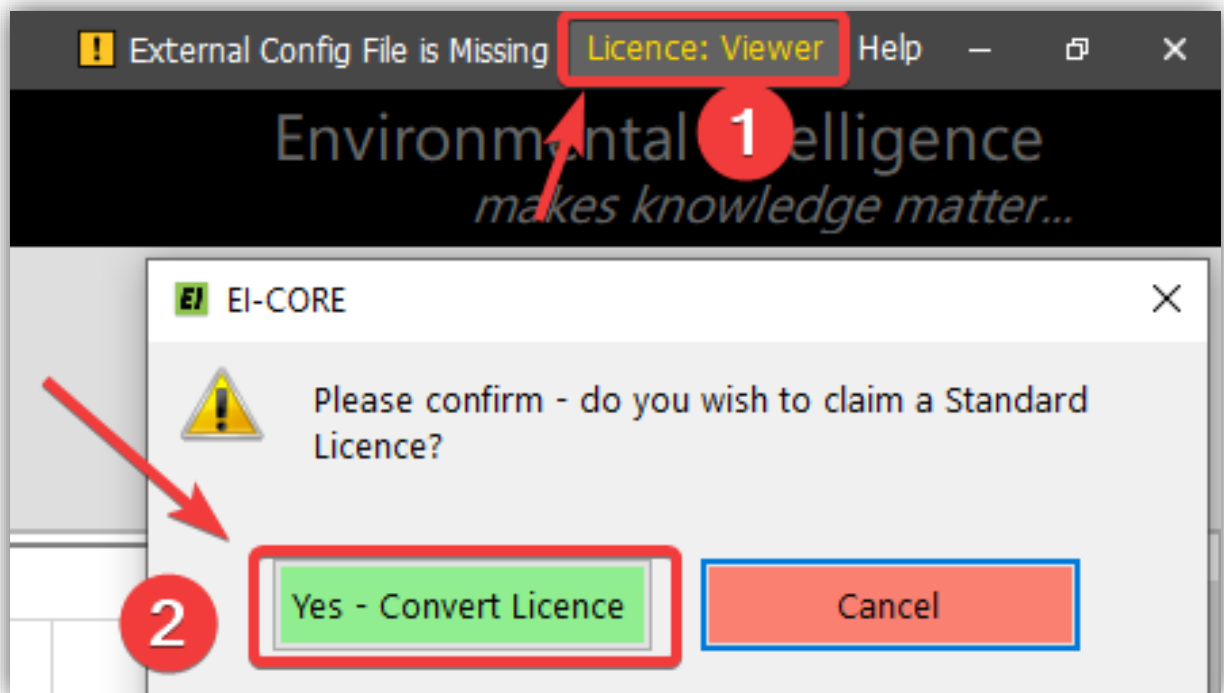


- When needed, EI-CORE will prompt the user for a licence upgrade:

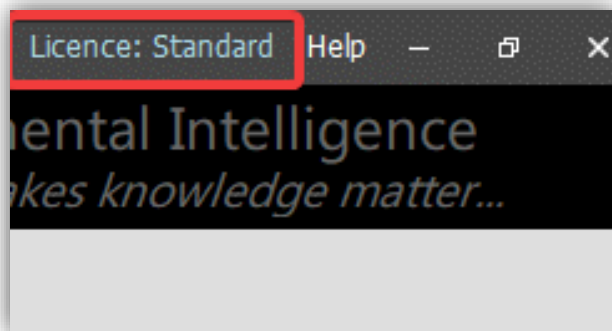


➤

- To claim a licence, click the **Licence-Button** in the tom right corner, and confirm by clicking the **green button** in the dialog box (**This will Claim a license from the licence pool!**):



- A licence has now been claimed and the user is now granted elevated rights:



Model Types

An introduction to the types of models encountered in EI-CORE

Subject Model

The Subject Model contains a description of all required information for the organization within a narrow subject area such as Geotechnical Boreholes, CPT's, etc. Each model is assigned a Domain Group, which is responsible for designing and maintaining the model. Each model will have a detailed description which can be used for those wanting a general overview before exploring the content of the Subject Model in more detail. Within the model, the required information is registered as Attributes each having a meaningful name and a thorough description of what it is and unit of preference, if required. The expected data format is also documented for each Attribute but can be changed if needed. Each Attribute is assigned an Owner, so it is possible to keep track of who decided to name the Attributes and provide the descriptions to each of them. This also ensures that this information will never become orphan as you will be able to track all input for a given employee and therefore also hand over responsibility if the employee stops working in the organization. The final information in the Subject Model is how it relates to other Models. This is a very important step as it will reveal how the information areas within the organization actually relates to other information areas and who is responsible for the different areas of information (Subject Models). An example is presented for the Moisture Content Subject Model in Figure 1.

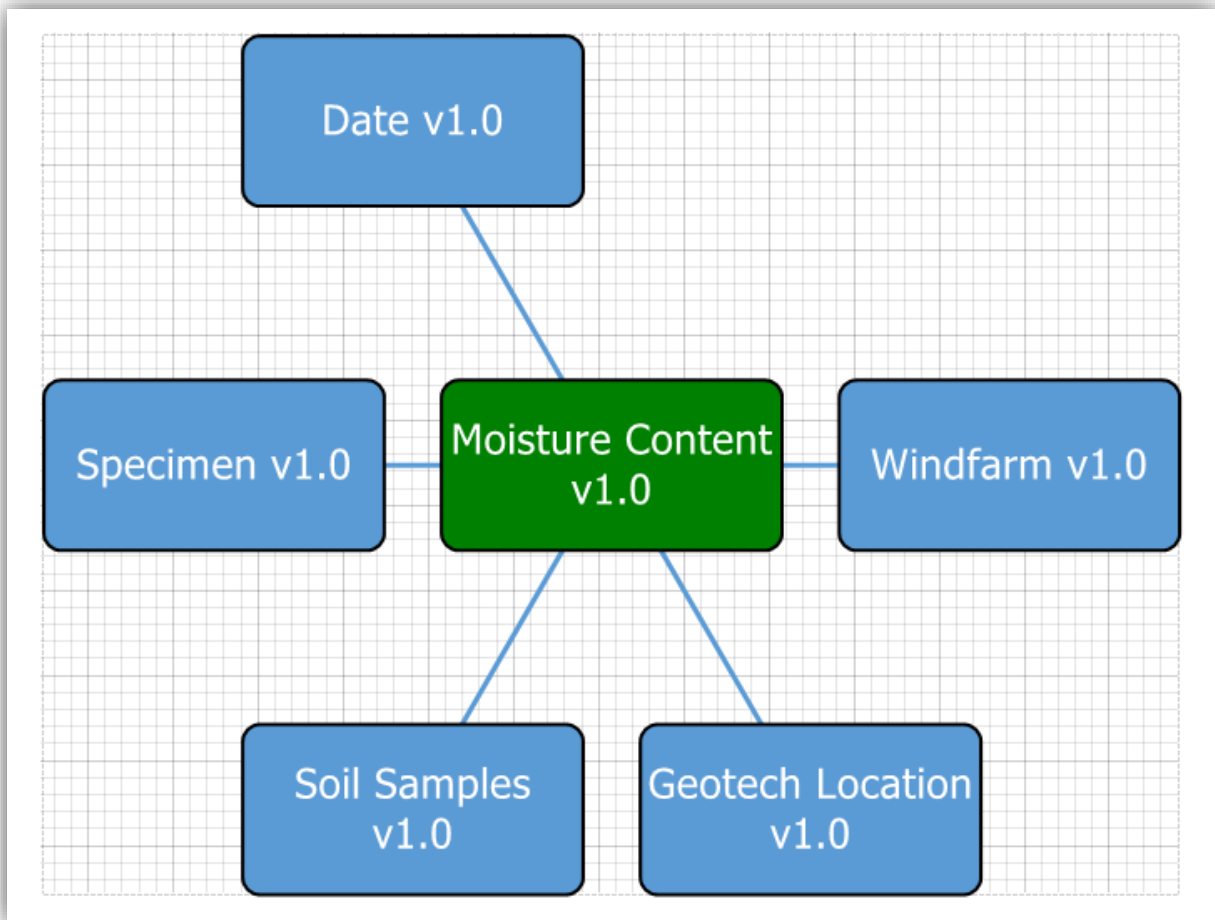


Figure 1 Subject Model for Moisture Content displaying how it relates to other Subject Models

Facts

The center of the Subject Model is called the Fact Table and is the focus for the Subject Model and the data exploration by the user. In Figure 1 “Moisture Content is the Fact table”

Dimensions

Dimensions surrounds a fact table and is usually used to further filter out data for a given Fact Table/ Subject Model.

Fact+Dimension

In the case of Environmental data, it is very often seen that a Table sometimes acts as the Fact tables and at other times as Dimensions for other Fact Tables. In these cases they can be labeled Fact+Dimension.

3NF

3NF (Third Normal Form) models differ from a standard Subject Model in that a given attribute can contain different types of data. An example can be a table having an attribute named [Parameter Name], [Value] and [Unit]. In such a case it is not possible to say that the value attribute always will contain e.g. pH values as it basically can contain all sorts of parameters because the name is listed in the other attribute. A 3NF model is very compact and easy to use by an automated process but not very reading friendly for a person. A traditional Subject Model structure would have one column for each type of parameter, so it is possible to compare or summarize values across records. This is not the case for a 3NF model type.

Bridge Tables

A bridge table is used when a record in the Fact table is linked to multiple records in a Dimensional table. In case there is no link between the Fact table and Dimension, an ‘N/A’ record is added as a bridge record in order to en-sure data are not filtered out by bringing in attributes from Dimensions having a Bridge table. Two types of Bridge tables exist:

Bridge1

The traditional Bridge table as described by Kimball Group is labeled “B1”. This Bridge table type is used when the multiple records in the Dimension that are linked to one record in the Fact table can be grouped together and assigned fur-ther attributes. This is not used very often at the moment with the technical data. The B1 Bridge table gets the prefix “B1_”

Bridge2

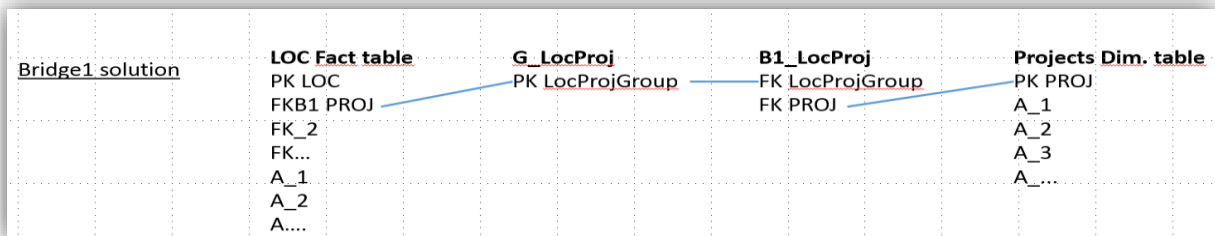
The other type of Bridge table that is identified is labeled Bridge table type “B2”. It is even more simple than B1, but can only work when a PK is present in the Fact table, which often is the case for our technical data. The B2 table consists of two attributes; a FK linking to the PK in the Fact table and a FK linking to the PK in the Dimension table. This allow one record in the Fact table to be associated with mul-tiple records in the Dimension table or the other way around. When this Dimension is brought into the Dimensional model,

it may produce duplicates for all other attributes except for the Dimension table linked using the B2 table. The B2 Bridge Table gets the prefix "B2_". The needed Group Table get the prefix "G_".

Example for Bridge2 solution:

Key points:

- In the fact table, the FK field shall be named FKB1_[table abbr.] or FKB2_[table abbr.] depending on the bridge type. e.g. FKB1_PROJ
- The Group Table shall be named G_[Fact table abbr.][Dim table abbr.] e.g. G_LocProj
- The Bridge Table shall be named B1_[Fact table abbr.][Dim table abbr.] or B2_[Fact table abbr.][Dim table abbr.] e.g. B1_LocProj



Role Playing Dimensions.

A Role Playing Dimension is a dimension that is used several times in the same Fact table under different names. The most common example is the Date Dimension that can be presented in the Fact tables as e.g. StartDate, EndDate and several other important dates you want to capture. This is solved by creating views based on the parent dimension but with the name of the Role Playing Dimension. The Abbreviation for the Role Playing Dimension must also be different so it can be used as prefix for the Attributes and thereby easily be distinguished from each other.

List

A list represents a list of allowed values that can be assigned a given attribute. It can then be used for checking or limiting the values for this attribute to be one of the values in the list.

MiniDimension

A Minidimension is an extension to an existing dimension with the same set of core attributes but with extra attributes not relevant for the Master Dimension, only for the Minidimension. The Minidimension concept is, however, being taken over by the Reference Model concept that is a bit more generic (see description of Reference Model).

Reference Model

A reference Model is a Subject Model containing a set of Attributes so generic that they are used very often as part of many other subject Models. A new Subject Model can contain elements from one or more Reference Models, which assure consistency with respect to naming of the core set of attributes used across multiple Subject Models.

Rules

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Document revision date: 2020-05-11

The EI-CORE **Rules** functionality handles criteria for data validation and can be applied to any Model attribute by switching on the **Show-Rules button**. It offers the possibility to apply both a fixed set of general rules and the option to assign context dependent rules as defined in a **List** and the ability to select an attribute from an EI-CORE defined table.

Applied rules are associated with a **Rule Set**. Several Rule Sets can be defined for every Model Design Version providing a flexible data format. A Rule Set is defined within a Design Version and can be applied in that version only.

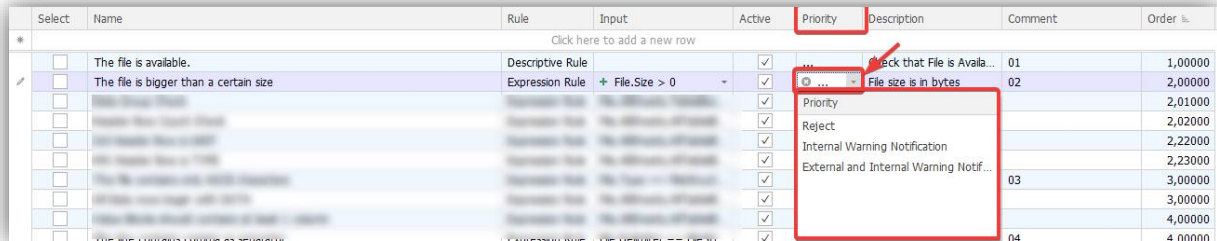
- **Choose From List:**
The Rule type “Choose From List”, makes it possible to define a list of attributes selectable as rules for another attribute.
- **Choose From Schema (Parent Rules):**
Defines a set of attributes from another model to be used as rules for the local attribute.

Rules Priority indicator

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Document revision date: 2020-01-29

When applying file format rules to an exchange schema, EI-CORE offers the opportunity to set a **priority** for that rule by selecting a value from the **Priority drop-down menu**:



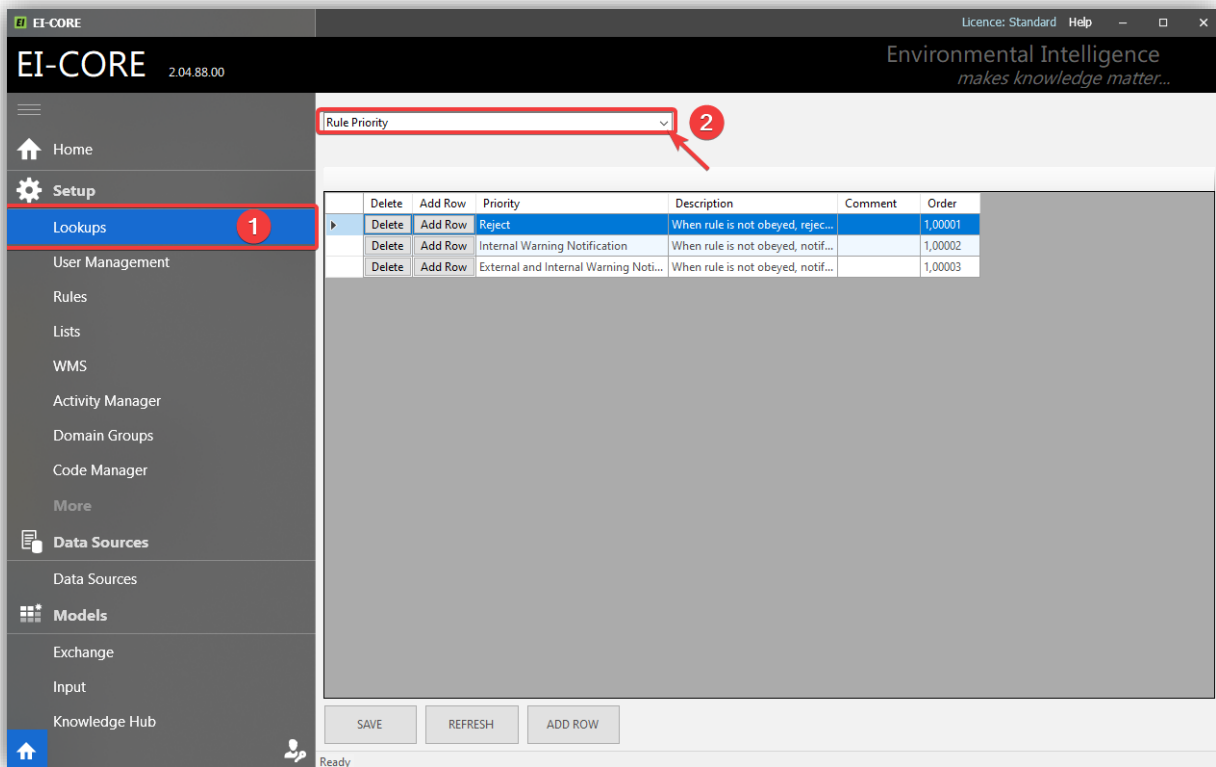
The screenshot shows a table with columns: Select, Name, Rule, Input, Active, Priority, Description, Comment, and Order #. A dropdown menu is open for the Priority column of the second row, showing options: Priority, Reject, Internal Warning Notification, and External and Internal Warning Notif... The table contains several rows of rules, including 'The file is available.', 'The file is bigger than a certain size', and others.

Select	Name	Rule	Input	Active	Priority	Description	Comment	Order #
<input type="checkbox"/>	The file is available.	Descriptive Rule		<input checked="" type="checkbox"/>		Check that File is Availa...		1,00000
<input checked="" type="checkbox"/>	The file is bigger than a certain size	Expression Rule	+ File.Size > 0	<input checked="" type="checkbox"/>	Priority	File size is in bytes		2,00000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				2,01000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				2,02000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				2,22000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				2,23000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				3,00000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				3,00000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				4,00000
<input type="checkbox"/>				<input checked="" type="checkbox"/>				4,00000

The **rules priority** can be used for indicating in which priority the rules are handled and/or (as in this example) for indicating what action a violation of the rule shall trigger.

Rule Priorities must be set in the **Lookups-module(1)** in the setup-menu. Expand the drop-down menu(2) and select **Rule Priority** and enter desired Priorities.

Remember to save the changes made.



The new Rule Priorities are now available from the Priority Drop-Down menu(1) in the Exchange Models Rules-view:

The image shows a software interface with a sidebar menu on the left and a main window on the right. The sidebar menu includes items like Home, Setup, Lookups, User Management, Rules, Lists, WMS, Activity Manager, Domain Groups, Code Manager, More, Data Sources, and Models. The 'Models' item is highlighted with a red box. The main window has a top navigation bar with 'Models', 'Attributes', 'Schemas', and 'Rules' tabs. The 'Rules' tab is selected and highlighted with a red box. Below the navigation bar is a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Set Order. The main area shows a table with columns: Active, Priority, Description, and Comment. A dropdown menu is open over the 'Priority' column of the first row, with 'Test Priority' highlighted. A red circle with the number '1' and an arrow points to the dropdown menu.

Models Attributes Schemas **Rules**

Save Delete Selected Cancel & Refresh Add Row Grid Find Column Filter Last Modified Set Order

Data Grid Tools Mode

[Schema]: [Rule Set]: [Status]: Open

Drag a column header here to group by that column

	Active	Priority	Description	Comment
*			Click here to add a new row	
	<input checked="" type="checkbox"/>	...	Check that File is Availa...	01
	<input checked="" type="checkbox"/>	Priority		02
	<input checked="" type="checkbox"/>	Reject		
	<input checked="" type="checkbox"/>	Internal Warning Notification		
	<input checked="" type="checkbox"/>	External and Internal Warning Notif...		
	<input checked="" type="checkbox"/>	Test Priority		03
	<input checked="" type="checkbox"/>			
	<input checked="" type="checkbox"/>			04
	<input checked="" type="checkbox"/>		Rule 4 - The GROUP TO...	
	<input checked="" type="checkbox"/>	...		05
	<input checked="" type="checkbox"/>	...	F...	06
	<input checked="" type="checkbox"/>	...	F...	07
	<input checked="" type="checkbox"/>	Reject	F...	
	<input checked="" type="checkbox"/>		Rule 7 - The order of...	



Conditional Rules

EI-CORE version number: 2.05.21.00

Document revision date: 2020-03-17

Conditional rules can be used for setting up a rule, that only apply when a certain criteria is met in another attribute that the one the rule applies to. E.g. if a value in table a exceeds a specified limit, another value in table B must not be NULL.

Rule-conditions are set per attribute in the **Rules pane** to the right(1). Select s Rule Set(2) and the rule that shall be applied under a certain condition(3). Click **Add Rule**(4):

Supply the required parameters for priority and input value if applicable(1) and select the three dots(2) at the **Create Condition** field:



Rules Links

Active Rule Set

Value < X

Available Rules

Value < X Add Rule

Applied Rules

Value < X Remove

Priority:

Reject

Input:

10

Condition:

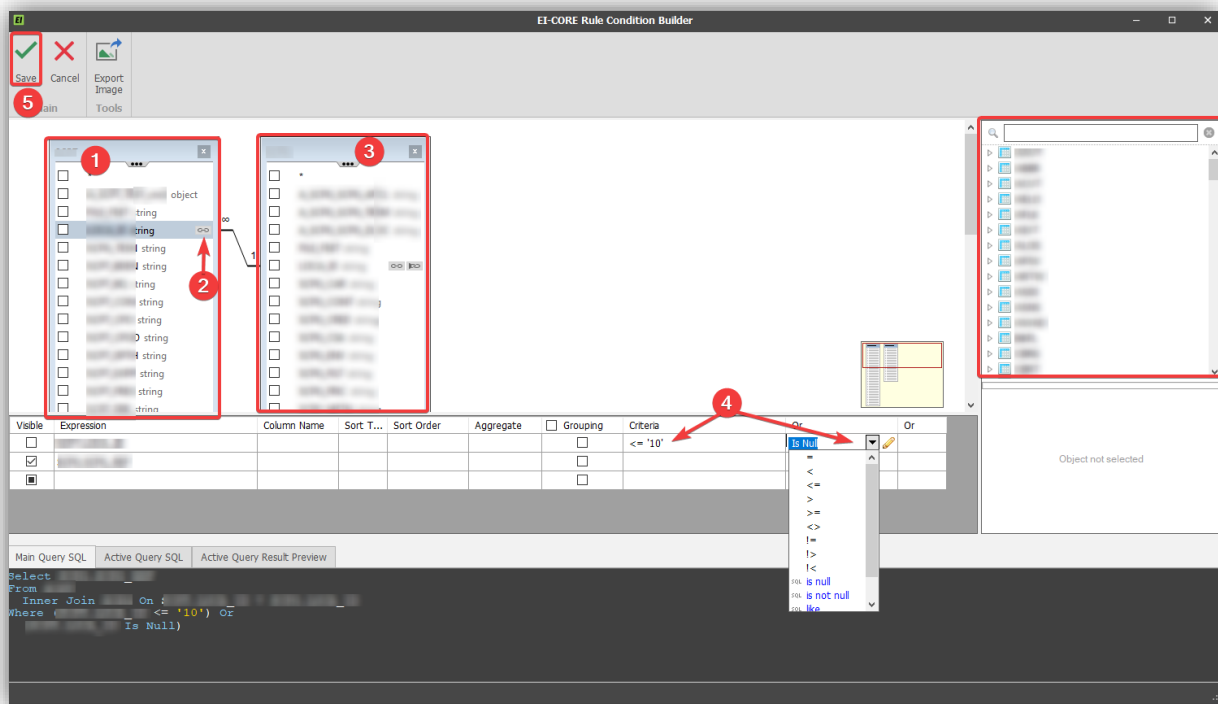
Create Condition...

The **Rule Condition Builder** will open in a separate window with the attributes from the selected model are displayed in the main field(1). Where a **link icon(2)** is shown, click the icon to have the linked model displayed as well(3). Tick off the attributes that will provide the conditions and supply the criteria for the



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selected attributes(4). Save(5) when done:





The condition under which the rule applies, is now displayed in the **Condition** field(1). Save(2) the model to finish:

The screenshot shows the EI-CORE software interface. At the top, there are tabs for Models, Attributes, Schemas, and Rules. Below the tabs is a toolbar with various icons. The 'Save' icon (a green checkmark) is highlighted with a red box and a red circle containing the number '2'. Below the toolbar, there is a status bar with fields for [Schema:], [Model:], and [Status]: Open. The main area is a grid with columns for Select, Class, Unit, Type, Owner, Comment, and Description. A row is selected with the class 'Attribute', unit 'cm2', and type 'Text'. The 'Condition' field in the 'Applied Rules' section is highlighted with a red box and a red circle containing the number '1'. The condition text is 'Where (<= '10') Or (... ' ... ')'.



Lists

EI-CORE version number: 2.04.11.00
Document revision date: 2020-05-11

The **List** functionality in EI-CORE, provides an advanced entry point for managing multi-level listing. It consists of three main levels namely:

The **List Models**, the **List Attributes** and the **Table Viewer**. In most scenarios Lists will be used as a foundation for building content dependent rules for data.

For example, an inventory of toys in a Kindergarten could have the following form:

Each **List Model** holds a kind of toy in the kindergarten e.g.:

- 1) Cars
- 2) Lego bricks
- 3) Crayons

The **List Attribute** of the “Cars”-List shows the applicable parameters to Cars e.g.:

- a) Color
- b) Condition
- c) Location

In the **Table Viewer** the possible/allowed formats of the attributes are defined:

Color:	Condition:	Location:
Red	As new	Storage
Green	Worn	Shelf
Blue	Broken	Playroom



Activity Manager

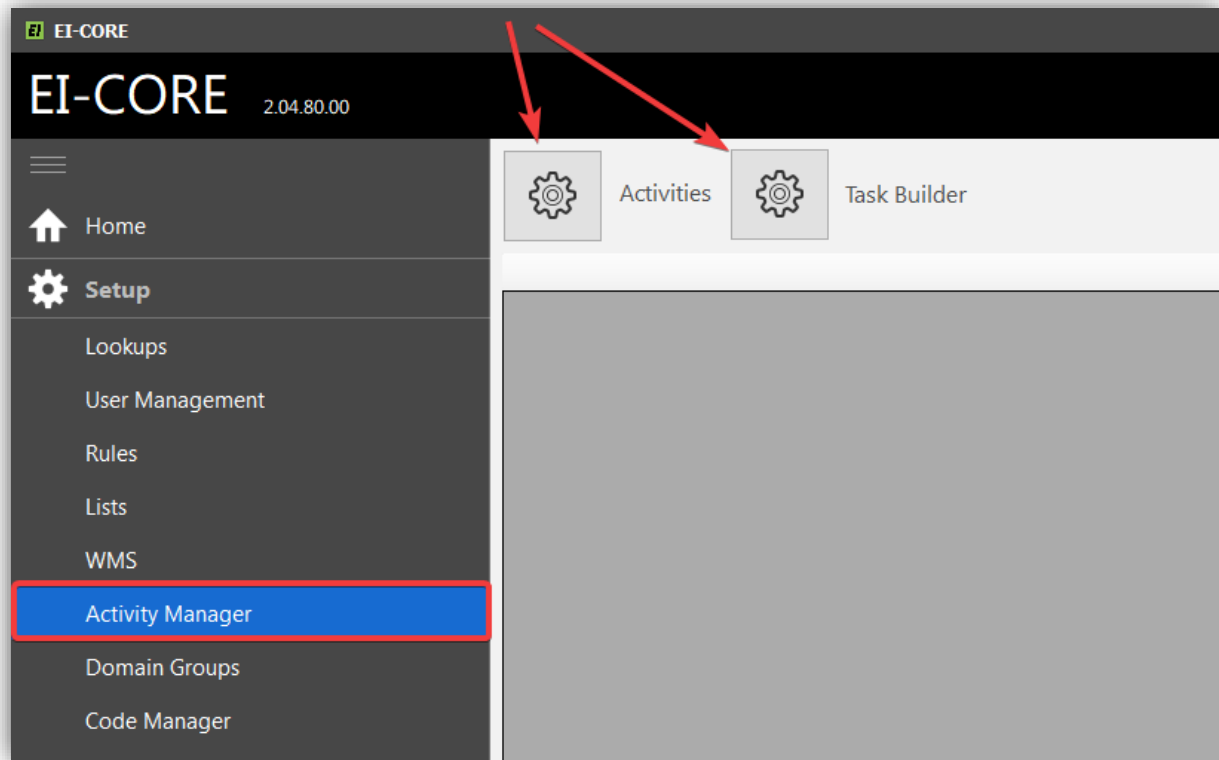
EI-CORE version number: 2.05.00.00
Document revision date: 2020-02-18

The **Activity Manager** offers the ability to append metadata to EI-core modules and use this data in multiple contexts.

An **Activity** consists of a set of **Task Groups** each holding a number of individual **Tasks**.

A task can be a generic value or predefined in numerous ways both directly on creation of the task, and by drawing information from other EI-CORE modules such as **Lists** and **Rules**.

The **Activity Manager** module is located in the **Setup** menu. It consists of an **Activity overview** and a **Task Builder**:



In the **Activities Menu**, highlighting a row displays a view of the content (1) and a preview of the Activities (2) as they will be assigned to the selected **module**:



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The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' (highlighted with a red box) and 'Task Builder'. Below the tabs is a table for defining activities:

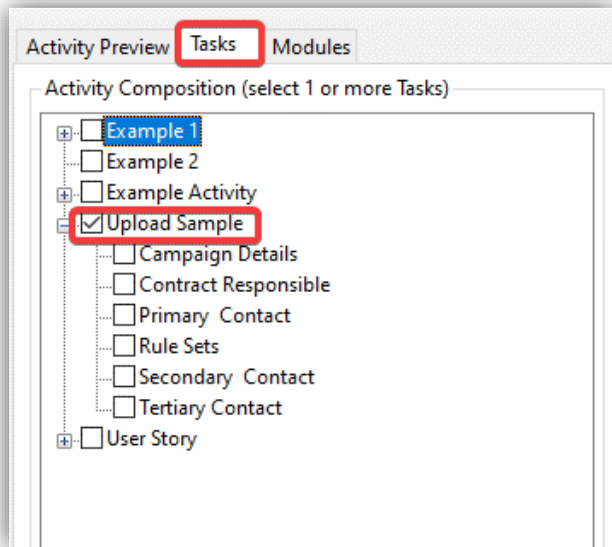
Delete	Add Row	Type	Allow Multiple	Name	Description
Delete	Add Row	Standard	<input type="checkbox"/>	Example 1	Info
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2	
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Activity	
Delete	Add Row	Standard	<input type="checkbox"/>	Upload Sample	
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	User Story	User stories to define and frame re...

Below this table is a 'Contents' table:

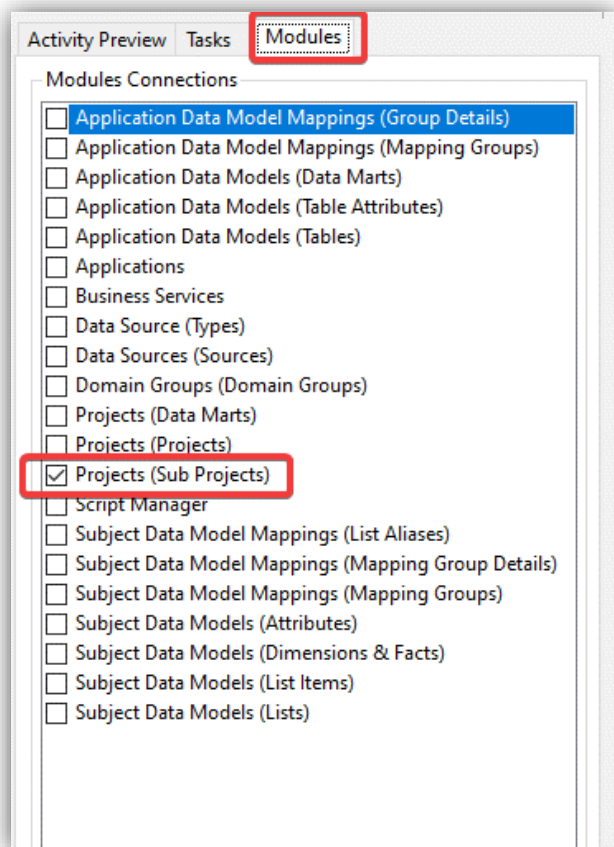
Delete	Add Row	Task Group	Order
Delete	Add Row	Campaign Details	1
Delete	Add Row	Rule Sets	2
Delete	Add Row	Primary Contact	3
Delete	Add Row	Secondary Contact	4
Delete	Add Row	Tertiary Contact	5
Delete	Add Row	Contract Responsible	6

On the right side, there is an 'Activity Preview' panel with tabs for 'SAVE', 'PRINT', 'Tasks', and 'Modules'. The 'Tasks' tab is active, showing a form for 'Campaign Details' with fields for 'Type (required)', 'Year (required)', 'Rule Sets', 'Primary Contact', and 'Secondary Contact'. A red box highlights the 'Activity Preview' panel, and a red arrow labeled '2' points to it. A red arrow labeled '1' points to the 'Contents' table.

In the **Tasks tab** activities are selected for assignment to a (selection of) module(s):



The **Modules Tab** selects the module(s) where to apply the Activities:



The **Task Builder** is used for assigning **new** content to an activity. Add or select the **Task Group** in the **Task pane** (1) and add new Content in the **Content Pane** (2).

The **Type** determines the functionality of the task. **Allow Multiple**, **Required** and **Hidden** allows for further customization of the task.



The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' and 'Task Builder', with the latter being selected and highlighted by a red box. Below the tabs, the 'Activity' is set to 'test'. A table is displayed with the following structure:

	Delete	Add Row	Task Group	Description
▶	Delete	Add Row	Test	

A red box highlights the first row of the table, and a red number '1' is placed to its right. Below the table is a 'Contents' section with a table that has a dropdown menu open for the 'Type' column. The dropdown menu lists various content types, with 'Person' selected and highlighted in blue. A red number '2' is placed to the left of the dropdown menu.

	Delete	Add Row	Type	Allow Multiple	Required	Hidden	Title	Description	Order
▶	Delete	Add Row	Check ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			1
	Delete	Add Row	Checkbox (Yes/No)			<input type="checkbox"/>			1
			Checkbox (Yes/No/Indeterminate)			<input type="checkbox"/>			
			Date						
			File Attachments						
			File Links						
			Large Text						
			List (Allow Changes)						
			List (Fixed)						
			Outlook Event						
			Person						
			Rule Sets						
			URLs						
			Value						



Existing Task Groups can be assigned in the content view from the **Activity menu**:



Activities Task Builder

	Delete	Add Row	Type	Allow Multiple	Name	Description
	Delete	Add Row	Standard ▾	<input type="checkbox"/>	Example 1	Info
	Delete	Add Row	Standard ▾	<input checked="" type="checkbox"/>	Example 2	
	Delete	Add Row	Standard ▾	<input checked="" type="checkbox"/>	Example Activity	
▶	Delete	Add Row	Standard ▾	<input type="checkbox"/>	test	test upload
	Delete	Add Row	Standard ▾	<input type="checkbox"/>	Upload Sample	
	Delete	Add Row	Standard ▾	<input checked="" type="checkbox"/>	User Story	User stories to define and frame re...

Contents

	Delete	Add Row	Task Group	Order
▶	Delete	Add Row	Info Group 1 ▾	1

- Info Group 1
- Info Group 2
- Files
- Overview
- Version Control
- User Story Information
- Additional Information
- AGS Group Division
- Campaign Details
- Primary Contact
- Secondary Contact
- Tertiary Contact
- Contract Responsible
- Rule Sets
- Test Rules

SAVE REF

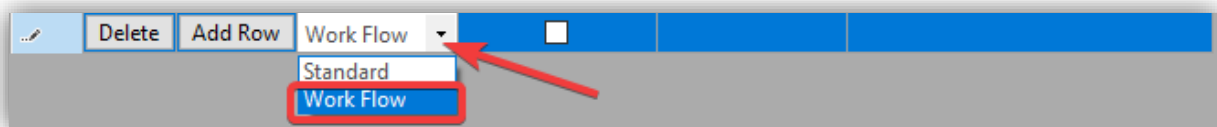


Work Flows in Activity Manager

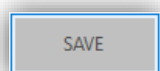
The Work Flow type activity, has a slightly different behavior than the standard activity. Where Standard activities provides a set of properties that can be assigned all at once to a module, the Work Flow properties are conditional. E.g: If a workflow has property A-B-C, Property A must be provided before property B that again is required for property C.

Create Work Flow

From the Activity Manager, select **Add Row** from the activities grid. Select **Work Flow** as type:



Provide Name and Description and save the activity:





Highlight the new activity, go to **Task Builder(1)** and click **Add Row(2)**. A new activity row(3) is now available:

The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activ' and 'Task Builder'. The 'Task Builder' tab is highlighted with a red box and labeled '1'. Below the tabs, there is a table with the following structure:

	Delete	Add Row	Task Group	Description
▶	Delete	Add Row		

The second row of the table is highlighted in blue and labeled '3'. Below the table, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. The 'ADD ROW' button is highlighted with a red box and labeled '2'. The interface also includes a sidebar on the left with various navigation options and a 'Contents' window at the bottom.

Provide Task Group Name(1) and – Description(2) and click **Save(3)**. A new **Content Row(4)** is now available in the contents window:

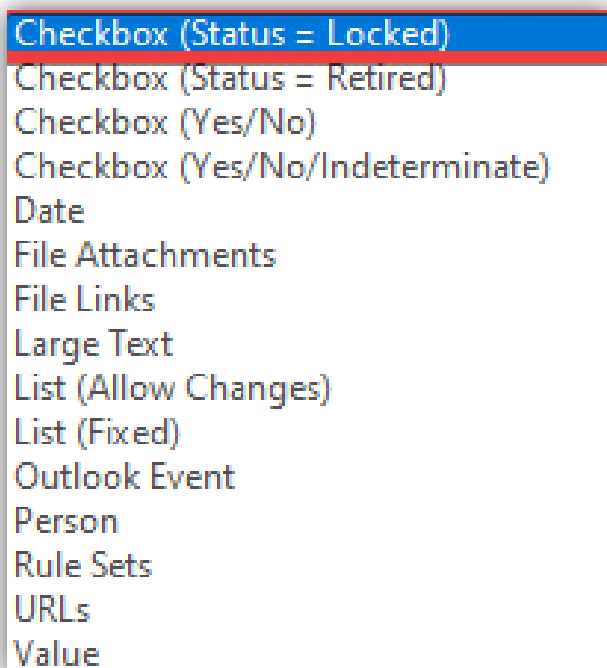


The screenshot shows the 'Task Builder' interface. At the top, there are tabs for 'Activities' and 'Task Builder'. Below the tabs, the 'Activity' is set to 'Flow1 Tasks'. A table with two rows is displayed, with the second row highlighted in blue. The columns are 'Delete', 'Add Row', 'Task Group', and 'Description'. The second row contains 'Delete', 'Add Row', 'Flow Group', and 'Som desc.'. Red circles 1 and 2 are placed over the 'Add Row' and 'Description' cells of the second row, respectively. Below this table is a 'Contents' table with columns: 'Delete', 'Add Row', 'Type', 'Allow Multiple', 'Required', and 'Hidden'. The second row of the 'Contents' table is highlighted in blue. Red circles 3 and 4 are placed over the 'Add Row' and 'Type' cells of the second row, respectively. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. The 'SAVE' button is highlighted with a red box.

Expand the **Type** drop-down menu:

This is a close-up view of the 'Contents' table. The table has columns: 'Delete', 'Add Row', 'Type', 'Allow Multiple', 'Required', 'Hidden', 'Title', 'Description', and 'Order'. The second row is highlighted in blue. The 'Type' cell of the second row is expanded, showing a dropdown menu with the option 'Check' selected. A red arrow points to the 'Check' option.

Select from the type menu. Notice the **Locked** type Checkbox. This type allows for version-locking of the target schema through the work-flow:



Once desired type(1) is selected, mark the **Required** check-box(2) Failing to do so, may cause unexpected behavior from the workflow. Provide **Title** and **Description**. Add additional workflow-items at will.

Contents													
	Delete	Add Row	Type	1	Allow Multiple	Required	2	Hidden	Title	3	Description	4	Order
	Delete	Add Row	Checkbox (Yes/No)	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Test		Some text		1
▶	Delete	Add Row	Date	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Date		Some text		1

Save (1) when done. The work flow-steps will be displayed in the preview pane (2) Add additional Task Groups if desired:



The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' (selected) and 'Task Builder'. Below the tabs, there is a dropdown menu for 'Activity' set to 'Flow1 Tasks'. The main area contains a table with columns: 'Delete', 'Add Row', 'Task Group', and 'Description'. The first row is highlighted in blue and contains 'Delete', 'Add Row', 'Flow Group', and 'Som desc.'. Below this table is a 'Contents' section with a table with columns: 'Delete', 'Add Row', 'Type', 'Allow Multiple', and 'Required'. The first row has 'Delete', 'Add Row', 'Checkbox (Yes/No)', and 'Allow Multiple' (checkbox). The second row has 'Delete', 'Add Row', 'Date', and 'Allow Multiple' (checkbox). At the bottom, there are three buttons: 'SAVE' (highlighted with a red box and a red circle with the number 1), 'REFRESH', and 'ADD ROW'. On the right side, there is a 'Task Preview' window. It has a tab labeled 'Flow Group'. Below the tab, there are two sections: 'Test (required)' with a checkbox (highlighted with a red box and a red circle with the number 2) and 'Date (required)' with a dropdown menu.

Return to the **Activities view(1)**. Highlight the work-flow activity (2) and assign the new task(3) from the task tab(4). Save(5) when done:



The screenshot shows the Task Builder interface. At the top, there are two tabs: 'Activities' (highlighted with a red box and a red circle with the number 1) and 'Task Builder'. Below the tabs is a table with columns: Delete, Add Row, Type, Allow Multiple, and Name. The table contains three rows: 'Example 2', 'Example Acti', and 'Flow1' (highlighted with a blue background and a red box with a red circle with the number 2). Below the table is a 'Contents' section with a table with columns: Delete, Add Row, Task Group, and Order. The 'Contents' table has one row with 'Order' value 1. At the bottom left, there are three buttons: 'SAVE' (highlighted with a red box and a red circle with the number 5), 'REFRESH', and 'ADD ROW'. On the right side, there is an 'Activity Preview' section with tabs 'Tasks' (highlighted with a red box and a red circle with the number 4) and 'Modules'. Below the 'Tasks' tab is an 'Activity Composition (select 1 or more Tasks)' section with a tree view. The tree view has two checked items: 'Flow1 Tasks' (highlighted with a red box and a red circle with the number 3) and 'Flow Group'.

Navigate to the **Modules tab(1)** and select the target module(2). Remember to save:



The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' and 'Task Builder'. Below the tabs, there is a table with columns: Delete, Add Row, Type, Allow Multiple, and Name. The table contains four rows: 'Example 2', 'Example Acti', 'Flow1', and 'Status'. The 'Flow1' row is selected. Below this table is a 'Contents' section with a table with columns: Delete, Add Row, Task Group, and Order. The 'Contents' table has one row with 'Order' value 1. At the bottom, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. On the right side, there is a 'Modules Connections' list with various modules. The 'Modules' tab is selected and highlighted with a red box and the number '1'. The 'Projects (Projects)' module is selected and highlighted with a red box and the number '2'.

Delete	Add Row	Type	Allow Multiple	Name
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Acti
Delete	Add Row	Work Flow	<input checked="" type="checkbox"/>	Flow1
Delete	Add Row	Work Flow	<input type="checkbox"/>	Status

Delete	Add Row	Task Group	Order
Delete	Add Row		1

- Data Source (Types)
- Data Sources (Sources)
- Domain Groups (Domain Groups)
- Projects (Data Marts)
- Projects (Projects)
- Projects (Sub Projects)
- Rule Sets
- Script Manager
- Subject Data Model Mappings (List Aliases)
- Subject Data Model Mappings (Mapping Group Detail:
- Subject Data Model Mappings (Mapping Groups)
- Subject Data Models (Attributes)
- Subject Data Models (Dimensions & Facts)
- Subject Data Models (List Items)
- Subject Data Models (Lists)

Navigate to the target module(1)(In this example the projects module). The new work flow is now applied to the module(2):



“Creating new Subject Model in EI-CORE”
Page 37 of 211

The screenshot displays the EI-CORE application interface. On the left is a dark navigation sidebar with a 'Knowledge Hub' header and several menu items: 'Manage', 'Schemas & Models', 'Exchange', 'Input', 'Information Store', 'Output', 'Translations', 'Business', 'Projects', 'Applications', and 'Services'. The 'Projects' item is highlighted in blue and has a red circle with the number '1' next to it, with an arrow pointing to the 'Projects' tab in the main window's header. The main window header contains three tabs: 'Projects', 'Sub Projects', and 'Project Output Models'. Below the header is a toolbar with icons for 'Save', 'Delete Selected', 'Cancel & Refresh', 'Add Row', 'Grid Find', 'Column Filter', 'Last Modified', 'Data Entry', 'Power Edit', 'Set Order', and 'Change History'. The main content area features a table with the following columns: 'Select', 'Name', 'Description', 'Abbr', and 'Active'. The table contains several rows of data, with a red circle and the number '2' positioned above the table. To the right of the table is a 'Flow1' form window, which is also outlined in red. This window has buttons for 'ADD NEW', 'DELETE', 'UPDATE', and 'PRINT'. Below these buttons is a 'Flow Group' section containing a 'Test (required)' field with a checkbox and a 'Date (required)' field with a date picker.



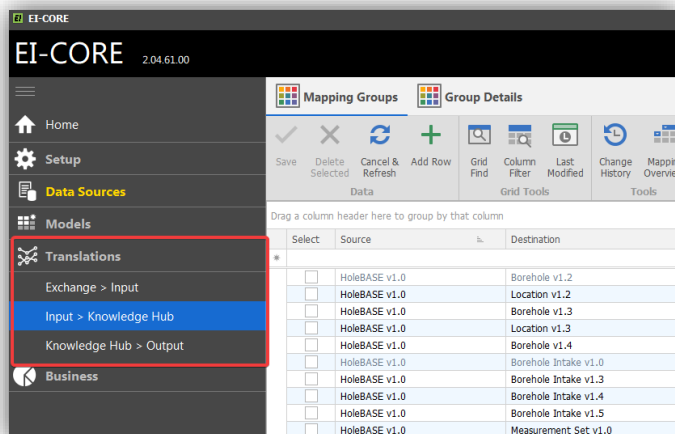
Group- and filter functionality

EI-CORE version number: 2.04.61.00

Document revision date: 2019-12-13

As from EI-CORE version 2.04.61.00, The design-view is replaced by **Translations** and split up into three subcategories namely: **Exchange>input**, **Input>Knowledge Hub** and **Knowledge hub>Output**. It comes with a highly customizable search- and filter functionality.

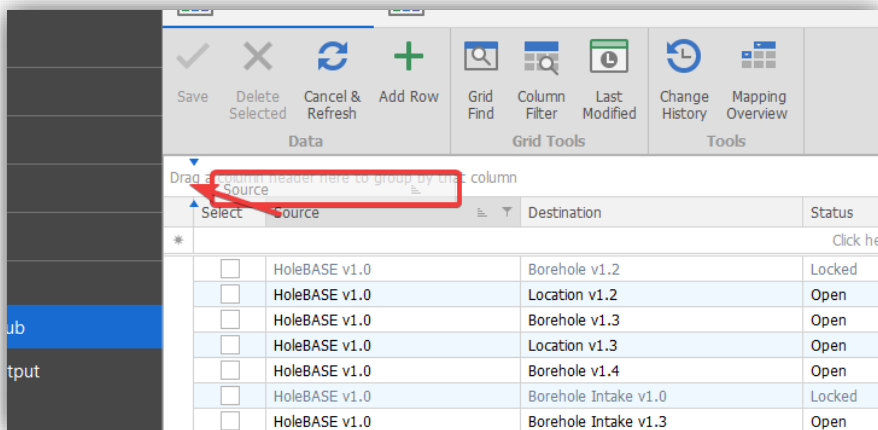
1 Mapping Groups are located in the "Translations" Menu:



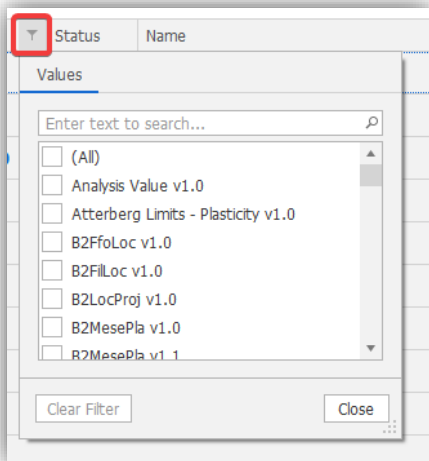


“Group and Filter”
Page 39 of 211

2 To group a table by columns, Drag desired Column Header to the **Group** line over the column headings:



3 When mouse is hovered over a column heading a filter icon appears. Click **filter icon** to filter by column:





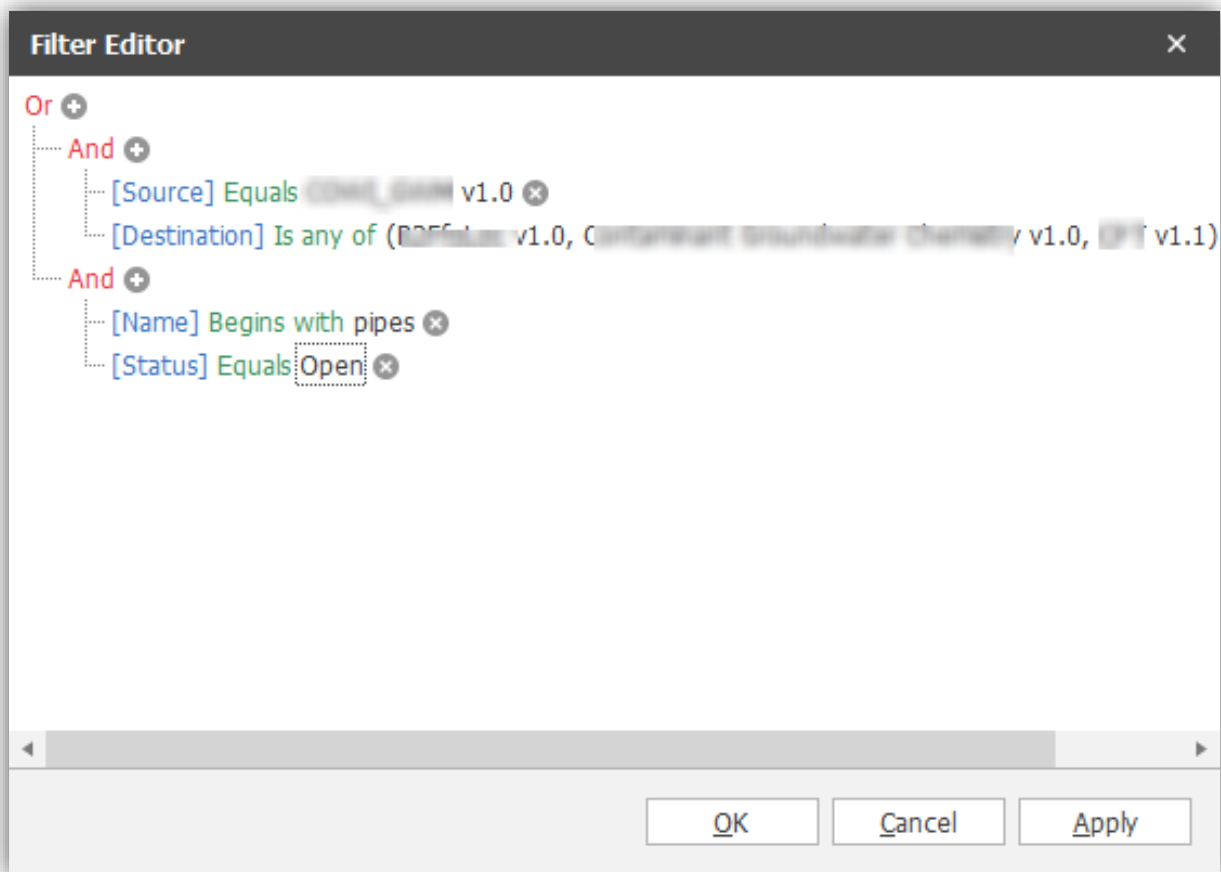
“Group and Filter”
Page 40 of 211

4 Once a filter is applied, value can be changed(1), filter can be toggled on/off(2) or deleted(3). Select **Edit Filter**(4) to open advanced filter editing:

The screenshot displays the 'Mapping Groups' application interface. A table lists various data groups with columns for 'Source', 'Destination', 'Status', 'Name', 'Comment', and 'Script'. A 'Filter Editor' dialog box is open over the table, showing a filter rule: '[Source] Equals COWL_GWM v1.0' and '[Destination] Equals B2MevaPb...'. Red annotations are present: a red arrow labeled '1' points to the value 'COWL_GWM v1.0' in the filter; a red arrow labeled '2' points to a small square icon next to the filter; a red arrow labeled '3' points to a trash can icon; and a red arrow labeled '4' points to the 'Edit Filter' button in the bottom right corner of the interface.



5 Customize filter as desired in the Filter Editor:



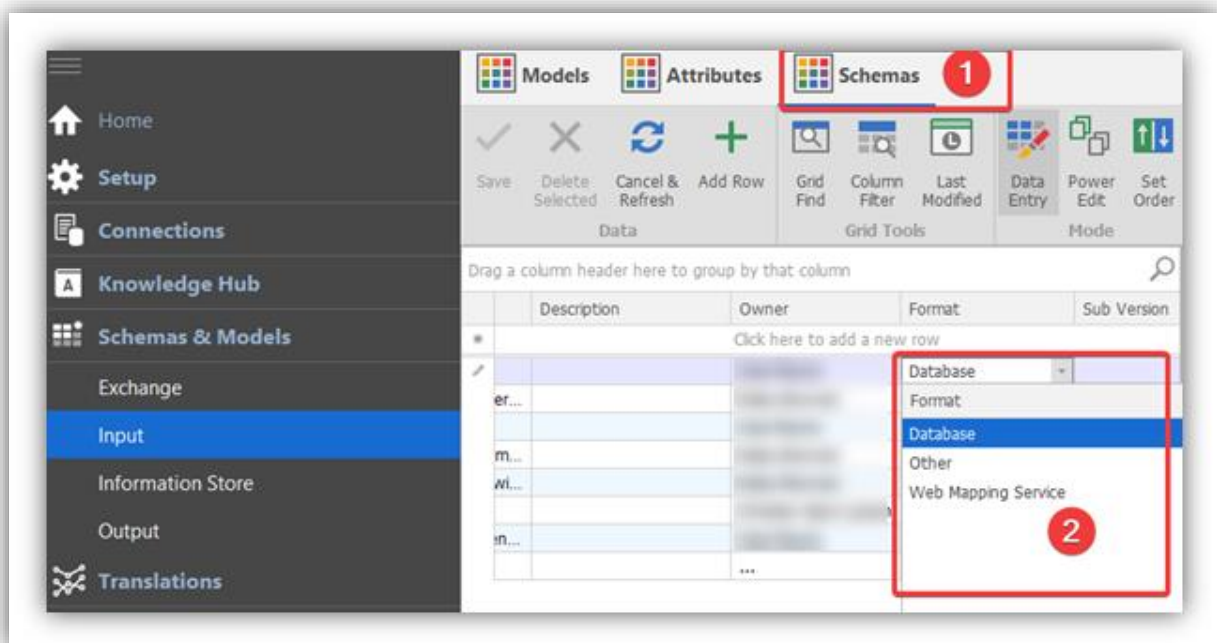


Data Sources and Connections

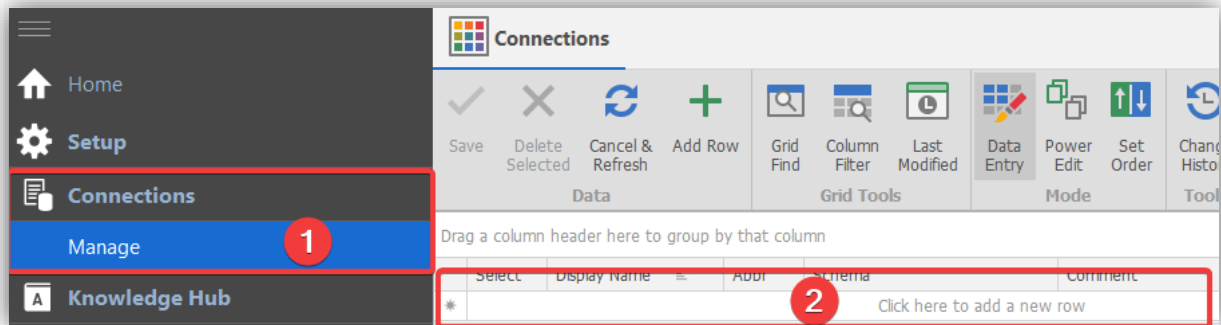
EI-CORE version number: 2.05.00.00
Document revision date: 2020-02-06

The **Exchange- Input- and Output schemas**, are local representations of external resources. In order to apply data from EI-CORE to production data from an external resource a **Connection** must be made to that resource.

Select appropriate **Format(2)** for the schema(1):



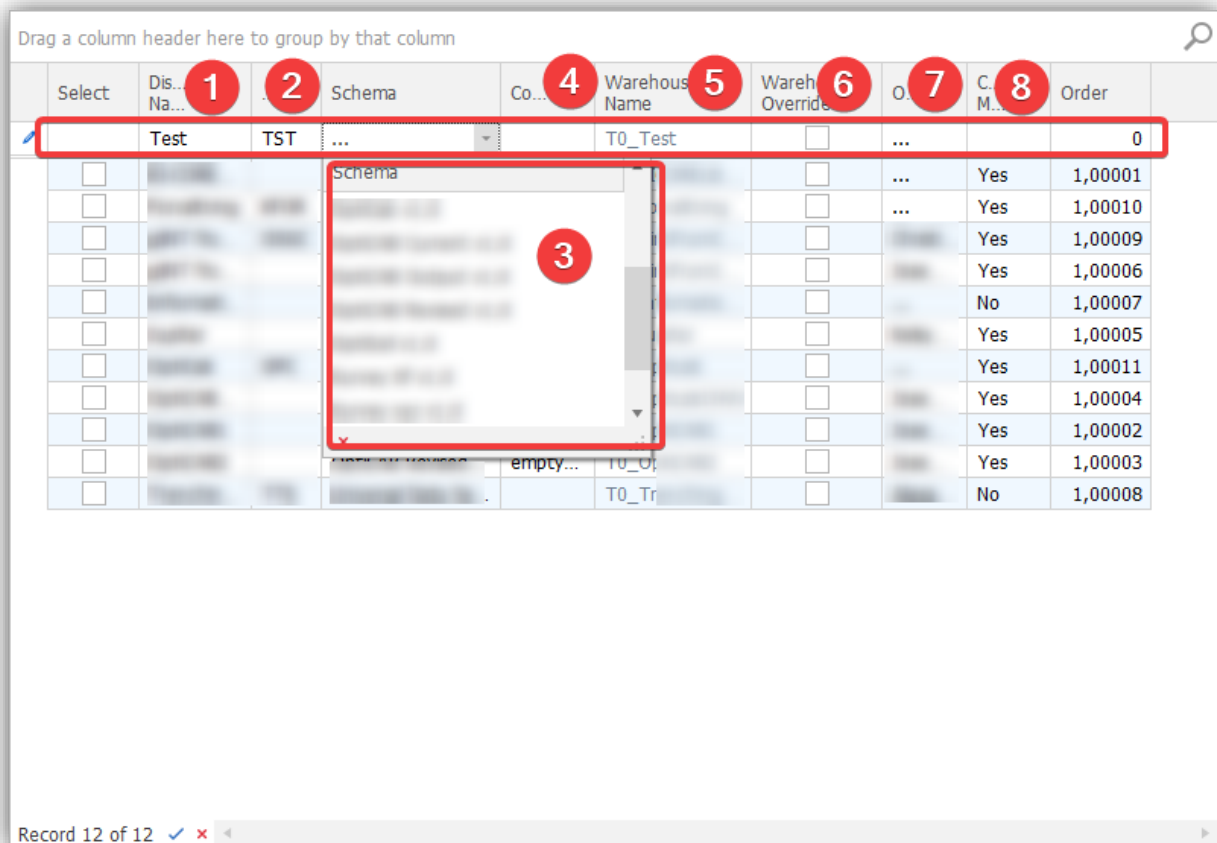
The connections are managed from the **Connections Menu(1)**. To set a new connection, add a new row(2):



Enter **Display Name(1)** and **Abbreviation(2)**. Now choose a **Schema(3)** from the drop-down menu(4) to connect from. Warehouse Name(5) is automatically generated by EI-CORE, but in order to assign a custom warehouse name, the **Warehouse Override** box(6) can be checked and the Warehouse name can now be edited. If the override box is again unchecked, the custom name will be deleted and default to the auto generated name.

Apply an owner(7) at will. (8) indicates if a connection has been made.

Save when all is done.



Set connection properties, by highlighting the appropriate Connection(1) and select **Set / Edit Connection** from the connection tab(2). In the **Connection Configuration Tool** window; enter Connection Properties as provided by the external resource manager.

Filter-options and other connection settings are available from the menu on the left(3).



“Group and Filter”
Page 45 of 211

The screenshot displays a data management interface with a table of connections and a configuration dialog box. The table has columns for Select, Display Name, Abbr, Schema, Comment, Warehouse Name, Warehouse Override, O..., Co... Ma..., and Order. A row with 'Test' in the Display Name column is highlighted and circled with a red box and a '1'. To the right, a 'Connection' panel shows a 'Set Connection' button circled with a red box and a '2'. Below this, an 'Ei-CORE Connection Configuration Tool' dialog box is open, with its 'Filter' section circled by a red box and a '3'. The dialog box contains fields for Connection Name (Test), Connection Type (MS SQL Server), Database Server Properties (Server Version: Auto, Deny into clause: unchecked), and MS SQL Server Connection Properties (Server Name, Authentication: SQL Server Authentication, Login, Password, Database).

Select	Display Name	Abbr	Schema	Comment	Warehouse Name	Wareho... Override	O...	Co... Ma...	Order
<input type="checkbox"/>	Test	TST	...	T0_Test			...	No	0,00000

Connection Configuration Tool

Connection Name: Test
Connection Type: MS SQL Server

Database Server Properties
Server Version: Auto
 Deny into clause

MS SQL Server Connection Properties
Server Name:
Authentication: SQL Server Authentication
Login:
Password:
Database:



Generate Models from Source

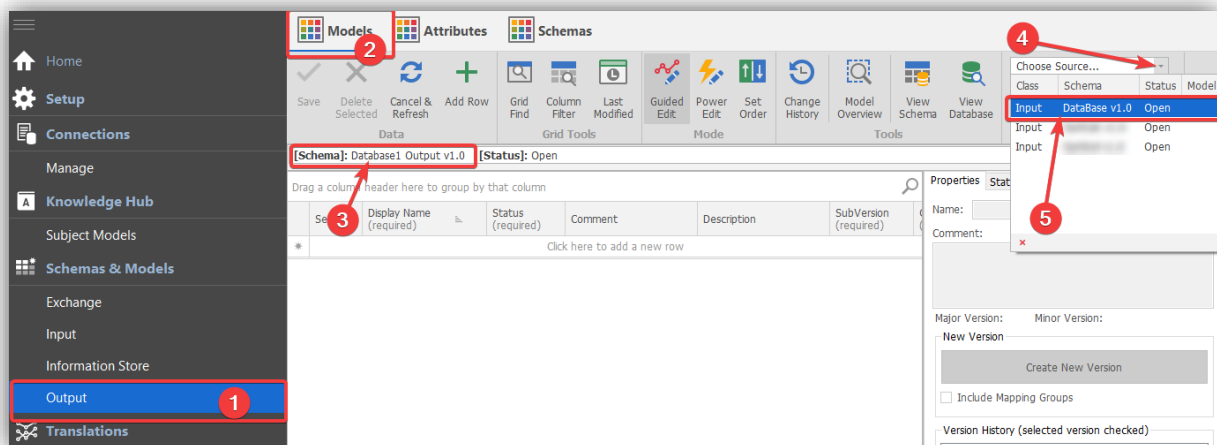
EI-CORE version number: 2.05.28.00

Document revision date: 2020-04-07

From EI-CORE version 2.05.28 it is possible to generate Output Models based on Input Models.

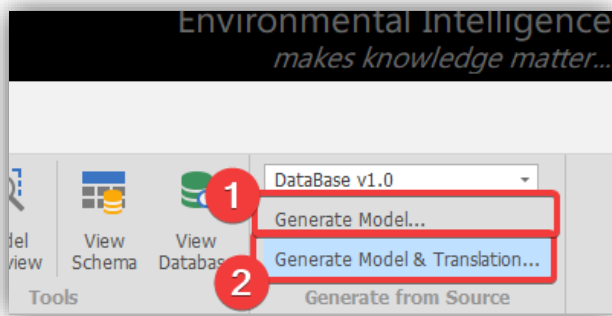
Generate output model:

Navigate to **Output Models(1)**, **Models(2)**. Select the desired **Output Schema(3)** and choose appropriate **Input Schema** as source(4,5):





Select weather to generate output model only(1) or to **map** the input- and output model in the process(2):





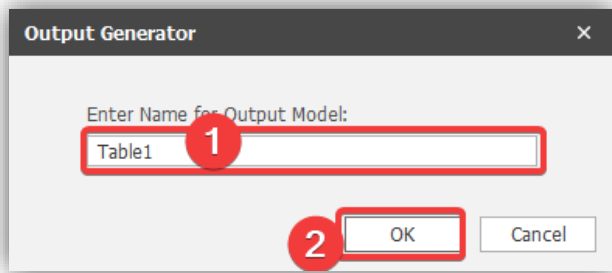
Select the desired attributes from the Source model in the Query-window by dragging (or double-clicking) them from the right- to the main pane(1). Save(2) when done:

The screenshot shows the EI-CORE Input To Output Generator interface. The top toolbar contains buttons for Save (with a green checkmark), Cancel (with a red X), and Export Image. The main workspace is divided into several panes. On the right, a source model pane shows a table named 'Table1' with columns: ID (int32), Column 10 (int32), and Column 20 (string). Three red arrows labeled '1' point from these columns to the main pane. The main pane contains a table with the following columns: Visible, Expression, Column Name, Sort T..., Sort Order, and Aggregate. The 'Visible' column has checkboxes for each row, all of which are checked. The 'Expression' column contains the following expressions: [Table1 v1.01].[Column 10], [Table1 v1.01].[Column 20], and [Table1 v1.01].ID. A red arrow labeled '2' points to the Save button in the top toolbar. Below the main pane, there are tabs for Main Query SQL, Active Query SQL, and Active Query Result Preview. The Active Query SQL tab is selected, showing the following SQL query:

```
select [Table1 v1.01].[Column 10],  
[Table1 v1.01].[Column 20],  
[Table1 v1.01].ID  
from Table1 [Table1 v1.01]
```




Enter Output Model Name(1) and save(2):



Done! The new Output Model has been created along with the mapping between Input and Output if that has been selected.



Synchronize input model with external source

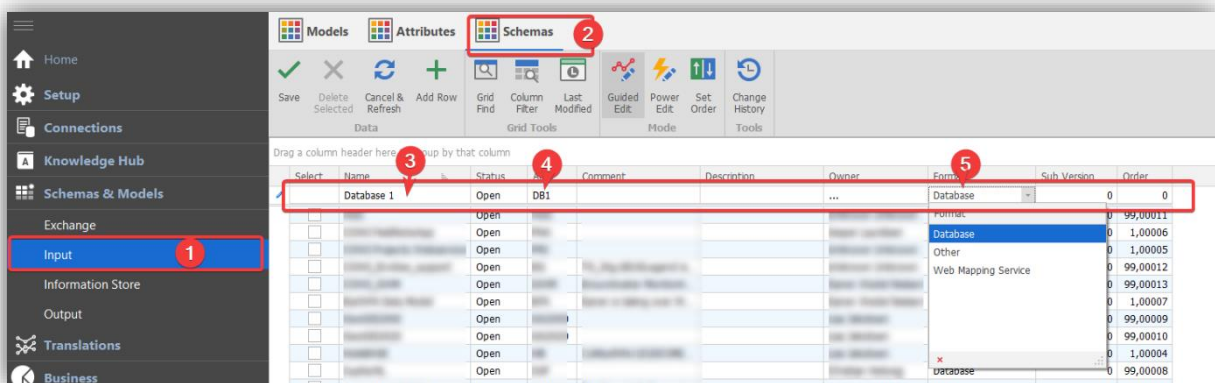
EI-CORE version number: 2.05.51.00

Document revision date: 2020-04-24

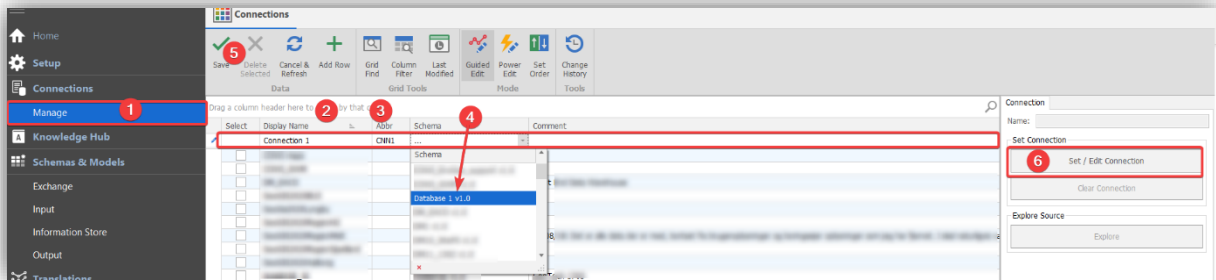
When a connection has been made from EI-CORE to an external source, EI-CORE can import and synchronize from the external source.

Create Input model:

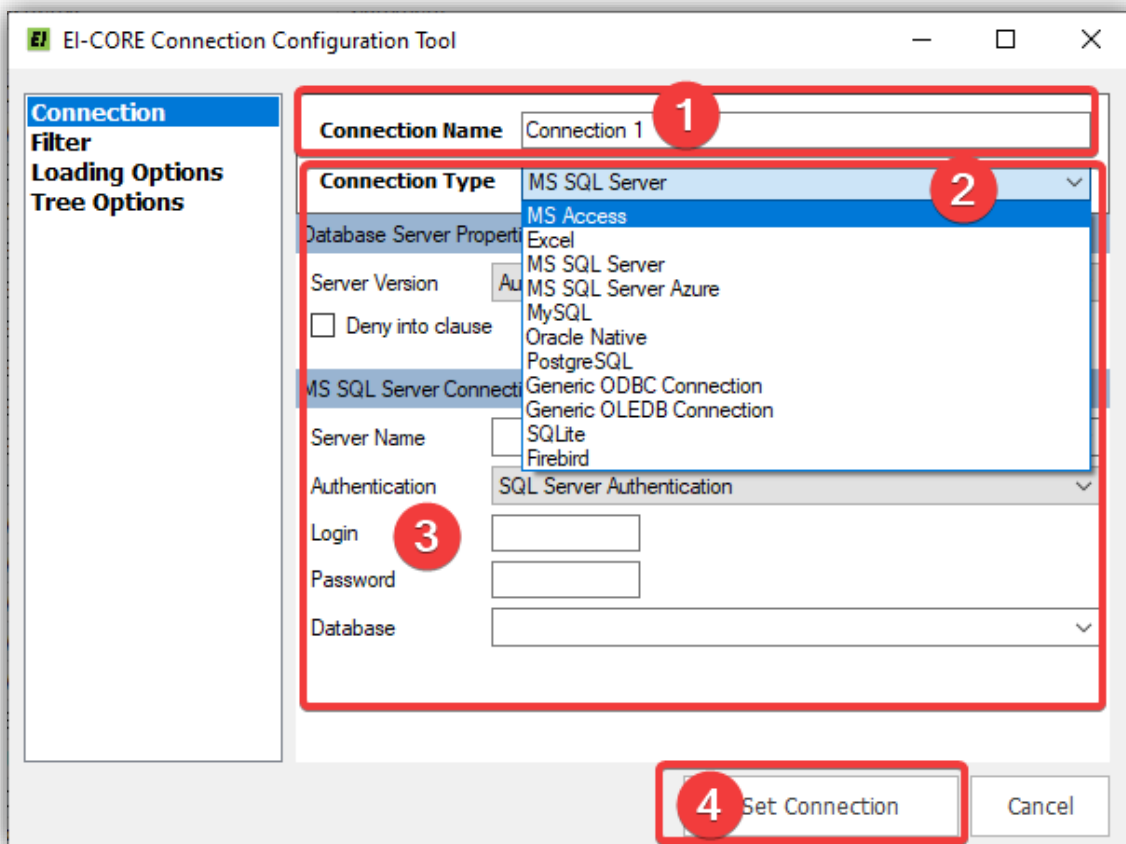
Navigate to **Input(1)** under **Schemas & Models**. Select **Schemas(2)** and start editing a new row, providing **Name(3)** and **Abbreviation(4)**. Apply Comment, Description and owner at will. Now select **Format(5)** from the drop-down menu. **Save** when done:



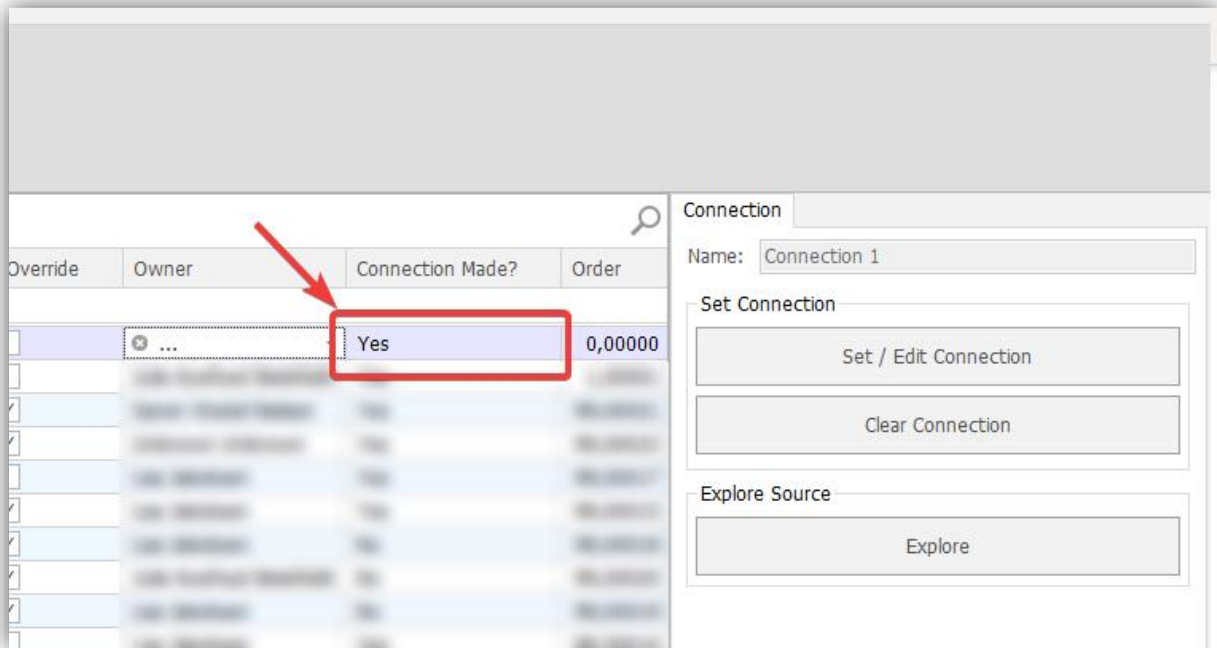
Navigate to Manage **Connections(1)** and create a new connection providing **Display Name(2)** and **Abbreviation**. Select the **Schema(4)** created previously. **Save(5)** the schema and select **Set/Edit Connection(6)**:



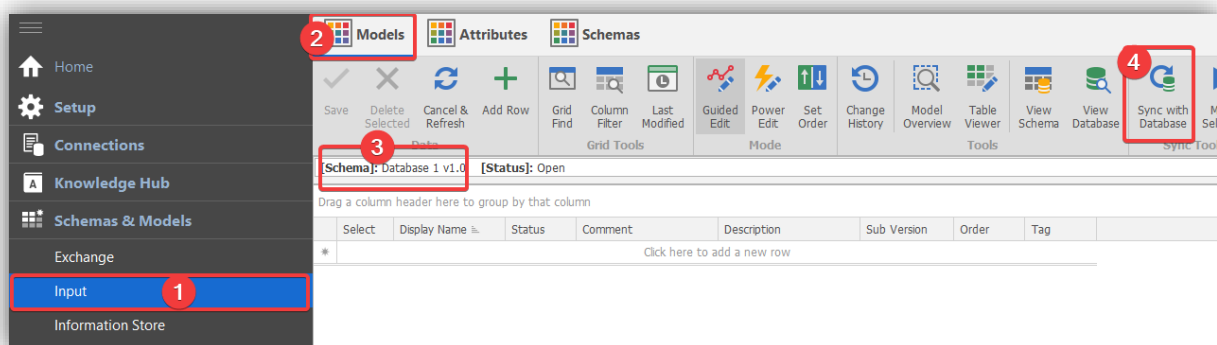
In the Connection Configuration Tool, provide **Connection name**(1) and **-Type**(2). Provide required credentials(3). Select **Set Connection**(4):



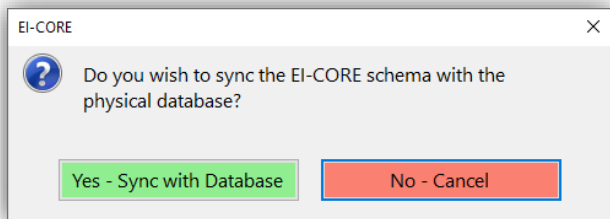
Notice that a connection has now been made:



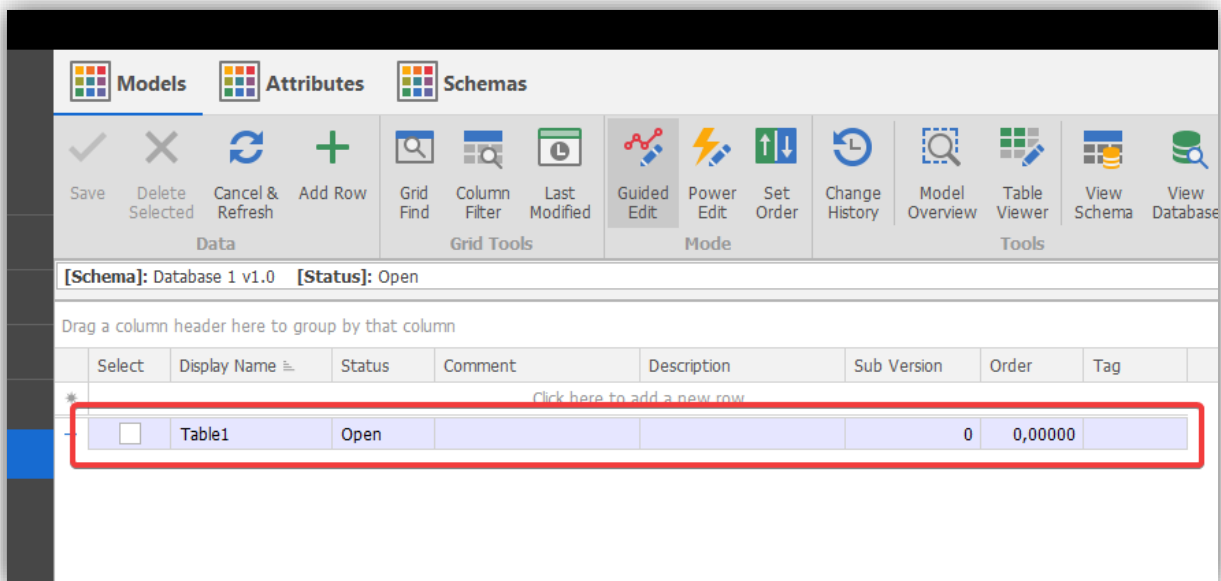
Navigate back to **Input Models(1)(2)** and select the new Database Schema(3). And click the **Sync with Database button(4)**



Answer Yes in the prompt:



The input model will now update with the contents from the source:



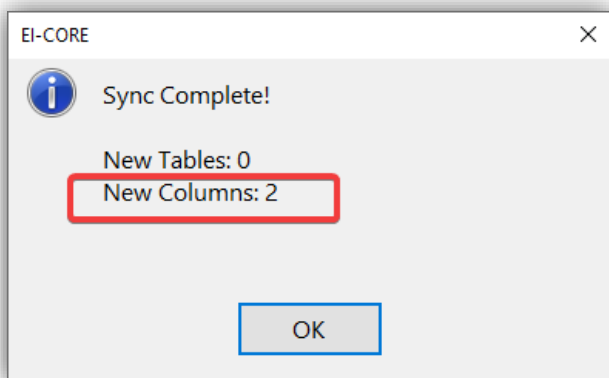
Merging Data

If an external source has its data changed, EI-CORE will import the altered data as new rows upon synchronization.

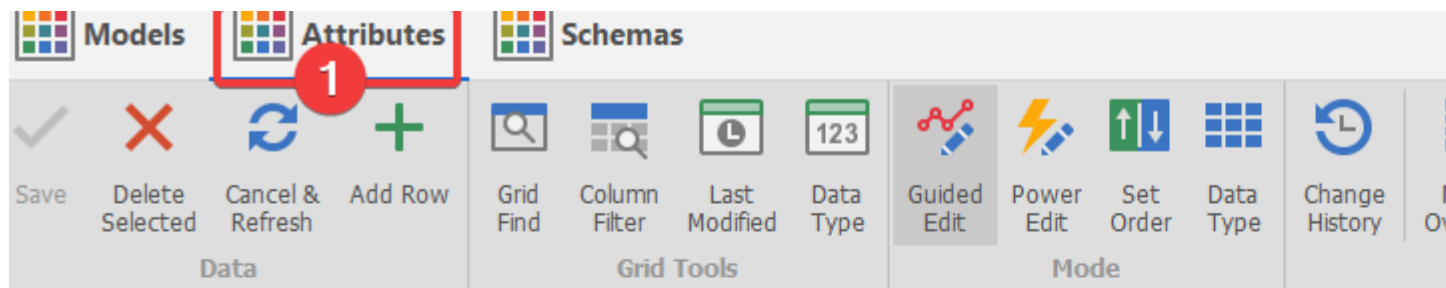
In this case the columns in the external database has been renamed from “column 1” and “column 2” to “column 10” and “column 20”. When synchronizing the database once again the following notification is



shown:



Click **OK** and navigate to the **Attributes** section(1). Select the rows that shall be merged(2), and click **Merge Selected**(3).

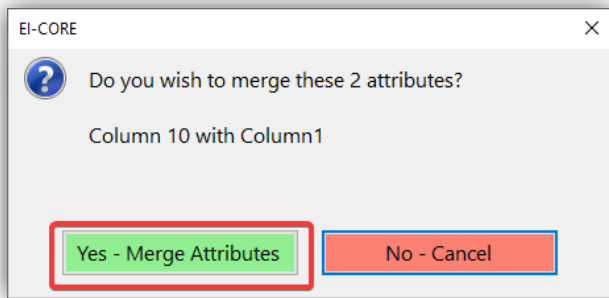


[Schema]: Database 1 v1.0 [Model]: Table1 v1.0 [Status]: Open

Drag a column header here to group by that column

Select	Display Name	Unit	Type	Owner	Comment	Description	Order
<input type="checkbox"/>	ID	unitless	Integer	...			0
<input checked="" type="checkbox"/>	Column 10	unitless	Integer	...			1
<input checked="" type="checkbox"/>	Column1	unitless	Integer	...			1
<input type="checkbox"/>	Column 20	unitless	Text	...			2
<input type="checkbox"/>	Column2	unitless	Text	...			2

Accept the merge:



EI-CORE will now overwrite the **name** and the **type** from the newly added row into the already existing row:

Select	Display Name	Unit	Type	Owner	Comment	Description	Order	Example	Format
<input type="checkbox"/>	ID	unitless	Integer	...			0,00000		
<input type="checkbox"/>	Column 10	unitless	Integer	...			1,00000		
<input type="checkbox"/>	Column 20	unitless	Text	...			2,00000		

Viewing Relationships

As from EI-CORE version 2.05.50.00 the external table relationships are imported as well. Once synchronized, select the **View Relationships** button(1) to open the relations window(2). It is also possible to edit the relationship between the imported models, but this will usually cause a mismatch between the EI-CORE representation and the original database and is under most circumstances not recommended.



“Group and Filter”
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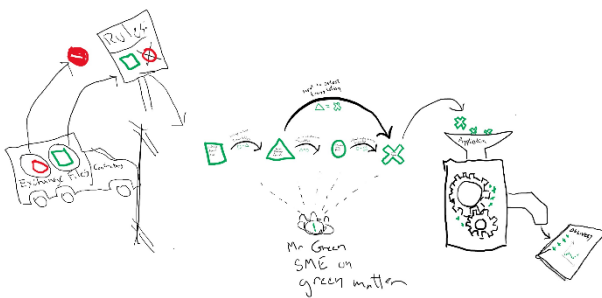
The screenshot shows the CORE software interface. The main window has a toolbar with various icons. The 'View Relationships' icon is highlighted with a red box and a red circle with the number 1. Below the toolbar, there is a table with columns: Select, Display Name (required), Status (required), Comment, Description, SubVersion (required), Order (required), and Tag. The table contains two rows: 'Another Table' and 'Table1', both with a status of 'Open'. A red box and circle with the number 2 highlights a 'Relationships' dialog box that is open. The dialog box has a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. Below the toolbar, there is a table with columns: Select, Child Model (required), Parent Model (required), Child Cardinality (required), and Parent Cardinality (required). The table contains one row: 'Another Table', 'Table1', 'Many', 'One'. The dialog box also has a search bar and a status bar at the bottom that says 'Record 1 of 1'.



Translations

EI-CORE version number: 2.05.25.00
Document revision date: 25-03-2020

Translations is the mapping and transformation of data between models. It may be a simple identification (e.g.: Data x in model 1 is the same as data y in model 2) or it may involve transformation of data (e.g.: Data x in model 1 is the same as half of data y in model 2):



Translations can be set by either a predefined script, or by using EI-CORE's built in **Query builder**

Translations using Query Builder

Navigate to desired translation(1) (in this example Input to Information Store), select **Mapping Groups**(2). Choose an existing mapping group or create a new by providing Source and destination group (3). Save(4) the new mapping group.



The screenshot displays the software interface with the following elements highlighted:

- 1**: Points to the **Translations** menu item in the left sidebar.
- 2**: Points to the **Open Query Builder** button in the Mapping Groups toolbar.
- 3**: Points to the **Destination** column header in the Group Details table.
- 4**: Points to the **Mapping Groups** locator bar in the top toolbar.

Select	Status	Source	Destination	Name	Comment	Script	Owner	Sub Version	Order
	Open	DataBase v1.0	DBTEST v1.0	Test		...	...	0	0
						...	...	0	1,00001
						...	...	0	1,00001
						...	...	0	1,00001
						...	...	0	0,00000
						...	...	0	1,00001
						...	...	0	1,00001

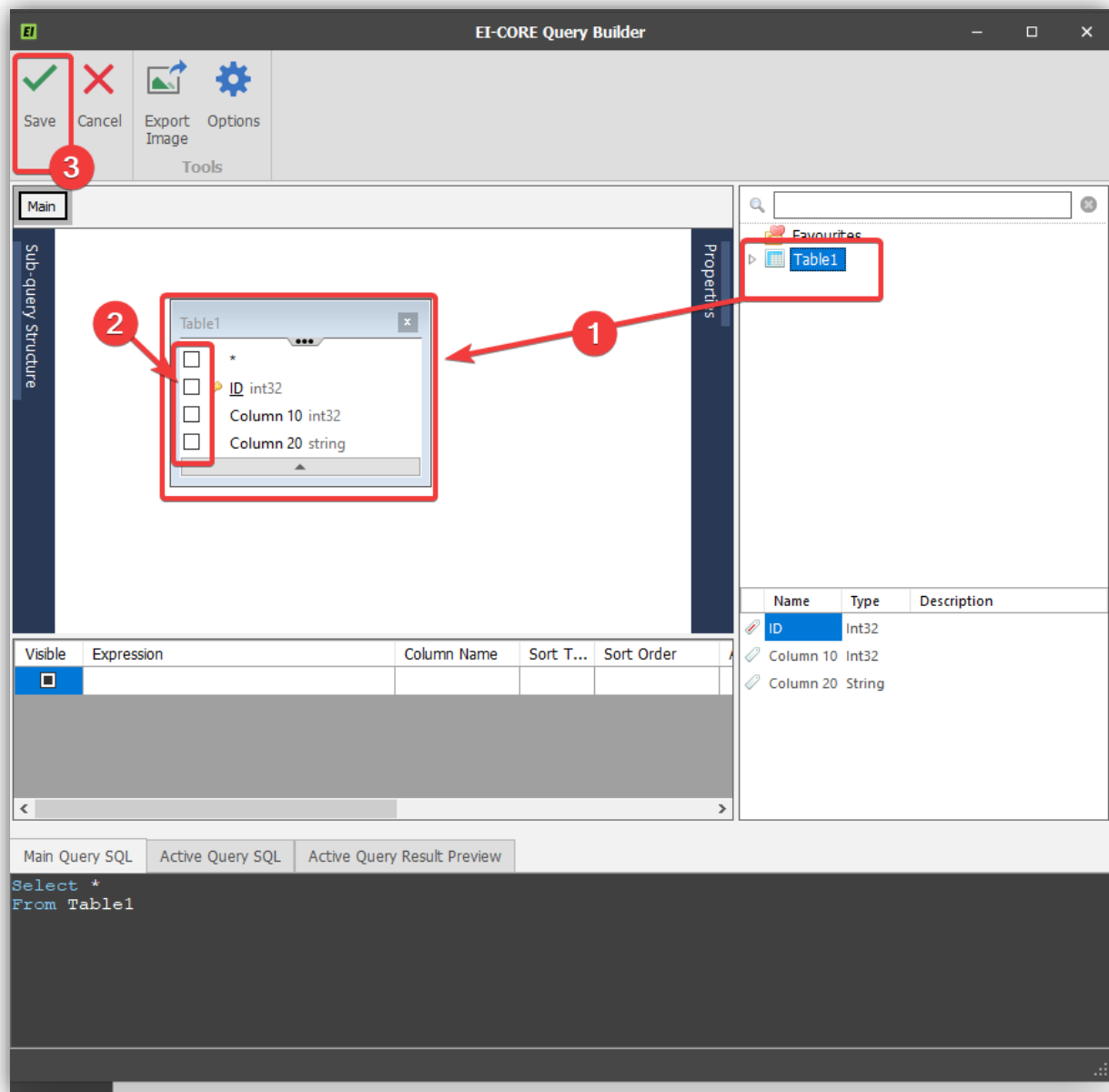
Go to **Group Details(1)**. Make sure the correct mapping group is displayed in the **Locator Bar(2)** and select **Open Query Builder(3)**:



The screenshot shows the 'Group Details' window with a toolbar and a table. The toolbar includes buttons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, Guided Edit, Power Edit, Set Order, Change History, and Mapping Overview. The table below has columns: Select, Link Type, Attribute, Data Type, Class, Order, Script, and Own. The 'Query Builder' window is open on the right, showing an 'OPEN QUERY BUILDER' button and tabs for 'Query Columns' and 'Functions'.

Select	Link Type	Attribute	Data Type	Class	Order	Script	Own
<input type="checkbox"/>	Source Column	Attribute 10	NVARCHAR(10)	Attribute	0,00000	...	...
<input type="checkbox"/>	Source Column	Attribute 20	STRING	Attribute	0,00000	...	...

In the **Query Builder Window**, select and drag the desired source model(s) from the right pane to the left(1). Select Desired Attributes by ticking off the appropriate tick boxes(2) or leave all blank to select all. **Save**(3) the query:



Drag desired values from the Query window to the value-column for the appropriate Attribute(1). Save(2) when done.



“Group and Filter”
Page 61 of 211

Select	Link Type	Attribute	Data Type	Class	Order	Script	Owner	Value	Comment
<input type="checkbox"/>	Source Column	Attribute 10	NVARCHAR(10)	Attribute	0,00000	...	...	Table1.Column 10	
<input type="checkbox"/>	Source Column	Attribute 20	STRING	Attribute	0,00000	...	...	Table1.Column 20	

Translations using Scripts

This section has not been written yet. Please contact [EI-group](#).



Links

EI-CORE version number: 2.05.00.00
Document revision date: 2020-02-06

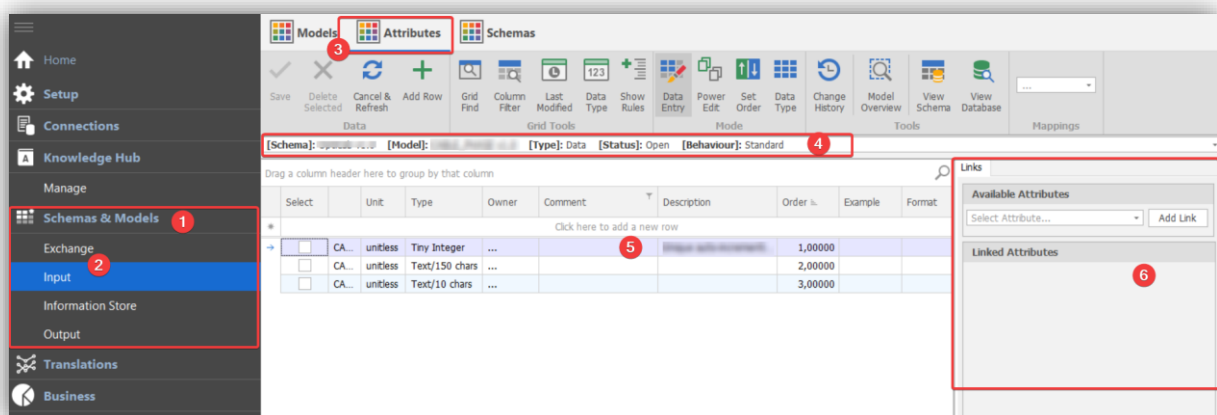
About Links

When an attribute in a Source-model is used within a subject area, it is useful to link the data entry with the subject area. This can be done in EI-CORE by the use of **Links**. Besides referring attributes, the link-feature also links to the attribute Description. Thus the descriptions made by subject matter experts in the knowledge hub, can be linked to a data field drawn from an Exchange- or Input model.

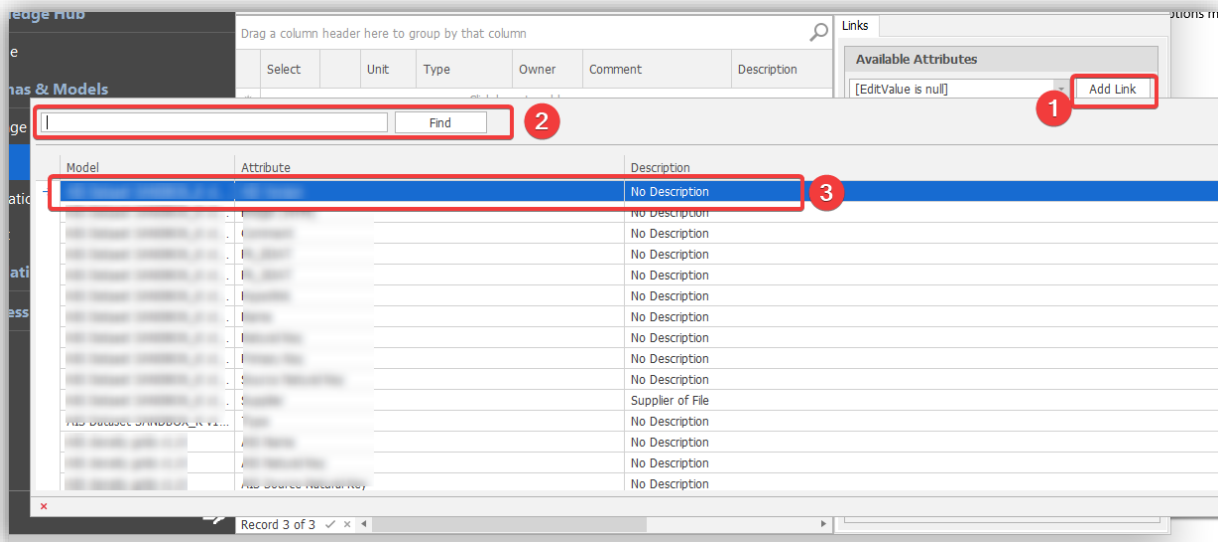
Setup a Link

Links can be made from Exchange- and Input Model attributes and are set and viewed from the link tab in the right pane of these schemas. To do so, navigate to the **Schemas & Models** menu(1) and select **Input** or **Exchange**(2). Go to **Attributes**(3) of the desired model. If needed select a model from the locator bar(4).

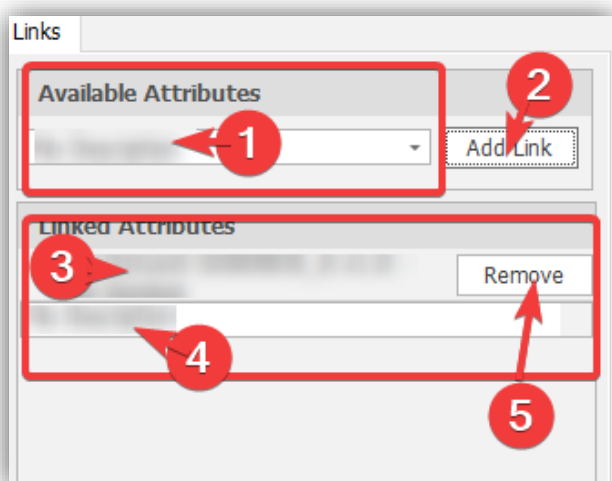
When an attribute is highlighted(5) existing links will show in the **Links** tab in the right pane(6):



Click **Add Link** button(1) to view a list of available attributes. Scroll down to desired attribute, or use the **Search Field**(2) to find the appropriate entry. Once located, select the desired Attribute(3) and the List-menu will close.



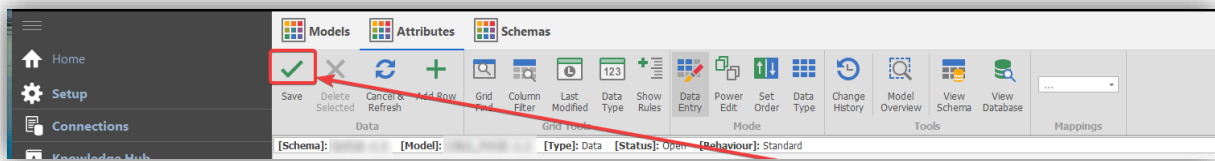
Once an attribute I selected, It will present it self with its description(1). Press **Add Link(2)** to execute. The link is now shown as **Linked Attributes** with its Display Name(3) and description(4). To remove a link press **Remove button(5)**.





“Group and Filter”
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Save the model when done:





Expressions syntax and elements

EI-CORE version number: 2.04.88.00

Document revision date: 2020-01-230

The EI-CORE Schema Rules are used when it is necessary to store rules as to how a file should ‘look’. This can be essential when requesting files from consultants or exchanging files with other organizations. Often these rules are written into contracts. It is also vital when developing tools to import or process the files.

EI-CORE contains an Expression Builder so that rules that are typically described by words can also be described in a standardized way.

As an example, in plain words a rule could state “A file should be larger than 1MB”. Using the expression builder the rule would be represented as: `File.Size >= 1000000`. Another file could be described by someone else as “Files should be less than 100MB” whereas the expression builder would provide a consistent approach, in this case: `File.Size <= 100000000`.

By default, EI-CORE contains a predefined expression set that allows you to describe the format and structure of a file. The expression builder syntax largely mimics `c#` but should be no more difficult than working with Excel formula syntax.

Syntax

An Expression consists of a **reference** an **operator** and a **value**. The reference denotes what part of a file the rule applies to. Operators states the kind of validation to be performed. Values are the constraints set by the rule in question. In plain words, a rule could state that a file should be larger than 1MB. In that case “file” is the reference, “larger than” is the operator and “1MB” is the value. In EI-CORE Expression Builder the syntax looks like this:

```
File.Size > 1000000
```

More complex expressions could refer to specific ‘cells’ within a file and compare them with a value from another cell.

References are expressed by a top-down approach. Always starting by the file and separating the sub-elements of the reference by a punctuation mark [.]



Main Elements

File

- A File can contain one or more sheets
 - A CSV file would contain just one sheet
 - An Excel file could contain multiple sheets
- The sheets collection is called **Sheets**



```
File
1 "GROUP", "PROJ"
2 "HEADING", "PROJ_ID", "PROJ_NAME", "PROJ_CLNT", "PROJ_CONT", "PROJ_ENG"
3 "UNIT", "", "", "", "", "", "", ""
4 "TYPE", "ID", "X", "X", "X", "X", "X", "X", "X"
5 "DATA", "PROJ_ID", "PROJ_NAME", "PROJ_CLNT", "PROJ_CONT", "PROJ_ENG"
6
7
8 "GROUP", "TRAN"
9 "HEADING", "TRAN_ID", "TRAN_DATE", "TRAN_PROD", "TRAN_STAT", "TRAN_DESC", "TRAN_"
10 "UNIT", "", "YYYY-MM-DD", "", "", "", "", "", "", ""
11 "TYPE", "X", "DT", "X", "X", "X", "X", "X", "X", "X", "X"
12 "DATA", "TRAN_ID", "TRAN_DATE", "TRAN_PROD", "TRAN_STAT", "TRAN_DESC", "TRAN_"
13
14
15 "GROUP", "DICT"
16 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"
17 "UNIT", "", "", "", "", "", "", ""
18 "TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"
19 "DATA", "HEADING", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"
20 "DATA", "HEADING", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"
21 "DATA", "HEADING", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"
22 "DATA", "HEADING", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"
23
24
25 "GROUP", "ABBR"
26 "HEADING", "ABBR_HDNG", "ABBR_CODE", "ABBR_DESC"
27 "UNIT", "", "", ""
28 "TYPE", "X", "X", "X"
29 "DATA", "DICT_DTYP", "PT", "Text listed in TYPE Group"
30 "DATA", "DICT_DTYP", "2DP", "Value; required number of decimal places, 2"
31 "DATA", "DICT_DTYP", "3DP", "Value; required number of decimal places, 3"
32 "DATA", "DICT_DTYP", "4DP", "Value; required number of decimal places, 4"
33 "DATA", "DICT_DTYP", "OSCI", "Scientific Notation; required number of decimal p
34 "DATA", "DICT_DTYP", "1SCI", "Scientific Notation; required number of decimal p
35 "DATA", "DICT_DTYP", "2SCI", "Scientific Notation; required number of decimal p
```

Sheets

- The Sheets collection can contain one or more sheets
- Sheets[0] refers to the first sheet
- A CSV file would only ever contain one sheet: Sheets[0]



```
Sheets[0]
1 "GROUP", "PROJ"
2 "HEADING", "PROJ_ID", "PROJ_NAME", "PROJ_LOC", "PROJ_CLNT", "PROJ_CONT", "PROJ_ENG
3 "UNIT", "", "", "", "", "", "", "", ""
4 "TYPE", "ID", "X", "X", "X", "X", "X", "X", "X"
5 "DATA", '
6
7
8 "GROUP", "TRAN"
9 "HEADING", "TRAN_ISNO", "TRAN_DATE", "TRAN_PROD", "TRAN_STAT", "TRAN_DESC", "TRAN_
10 "UNIT", "", "YYYY-mm-dd", "", "", "", "", "", "", ""
11 "TYPE", "X", "DT", "X", "X", "X", "X", "X", "X", "X", "X"
12 "DATA", '
13
14
15 "GROUP", "DICT"
16 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D
17 "UNIT", "", "", "", "", "", "", "", ""
18 "TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"
19 "DATA", '
20 "DATA", '
21 "DATA", '
22 "DATA", '
23
24
25 "GROUP", "ABBR"
26 "HEADING", "ABBR_HDNG", "ABBR_CODE", "ABBR_DESC"
27 "UNIT", "", "", ""
28 "TYPE", "X", "X", "X"
29 "DATA", "DICT_DTYP", "PT", "Text listed in TYPE Group"
30 "DATA", "DICT_DTYP", "2DP", "Value; required number of decimal places, 2"
31 "DATA", "DICT_DTYP", "3DP", "Value; required number of decimal places, 3"
32 "DATA", "DICT_DTYP", "4DP", "Value; required number of decimal places, 4"
33 "DATA", "DICT_DTYP", "OSCI", "Scientific Notation; required number of decimal p
34 "DATA", "DICT_DTYP", "1SCI", "Scientific Notation; required number of decimal p
35 "DATA", "DICT_DTYP", "2SCI", "Scientific Notation; required number of decimal p
```

TableBlocks

- A Table Block is a block of data
- A sheet can contain one or more Table Blocks
- The Table Blocks collection is called **TableBlocks**
- The first table block is referred to as TableBlocks[0]



1	"GROUP", "PROJ"	TableBlocks[0]
2	"HEADING", "PROJ_ID", "PROJ_NAME", "PROJ_LOC", "PROJ_CLNT", "PROJ_CONT", "PROJ_ENG"	
3	"UNIT", "", "", "", "", "", "", "", ""	
4	"TYPE", "ID", "X", "X", "X", "X", "X", "X", "X"	
5	"DATA",	
6		
7		TableBlocks[1]
8	"GROUP", "TRAN"	
9	"HEADING", "TRAN_ISNO", "TRAN_DATE", "TRAN_PROD", "TRAN_STAT", "TRAN_DESC", "TRAN_"	
10	"UNIT", "", "YYYY-mm-dd", "", "", "", "", "", "", ""	
11	"TYPE", "X", "DT", "X", "X", "X", "X", "X", "X", "X", "X"	
12	"DATA",	
13		
14		TableBlocks[2]
15	"GROUP", "DICT"	
16	"HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D"	
17	"UNIT", "", "", "", "", "", "", "", "", ""	
18	"TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"	
19	"DATA",	
20	"DATA",	
21	"DATA",	
22	"DATA",	
23		
24		TableBlocks[3]
25	"GROUP", "ABBR"	
26	"HEADING", "ABBR_HDNG", "ABBR_CODE", "ABBR_DESC"	
27	"UNIT", "", "", ""	
28	"TYPE", "X", "X", "X"	
29	"DATA", "DICT_DTYP", "PT", "Text listed in TYPE Group"	
30	"DATA", "DICT_DTYP", "2DP", "Value; required number of decimal places, 2"	
31	"DATA", "DICT_DTYP", "3DP", "Value; required number of decimal places, 3"	
32	"DATA", "DICT_DTYP", "4DP", "Value; required number of decimal places, 4"	
33	"DATA", "DICT_DTYP", "0SCI", "Scientific Notation; required number of decimal p	
34	"DATA", "DICT_DTYP", "1SCI", "Scientific Notation; required number of decimal p	
35	"DATA", "DICT_DTYP", "2SCI", "Scientific Notation; required number of decimal p	

HeaderBlock & ValueBlock

- Each Table Block can have a **HeaderBlock** and **ValueBlock**



```
1 "GROUP", "PROJ"
2 "HEADING", "PROJ_ID", "PROJ_NAME", "PROJ_LOC", "PROJ_CLNT", "PROJ_CONT", "PROJ_ENG
3 "UNIT", "", "", "", "", "", "", "", ""
4 "TYPE", "ID", "X", "X", "X", "X", "X", "X", "X"
5 "DATA", '
6
7
8 "GROUP", "TRAN"
9 "HEADING", "TRAN_ISNO", "TRAN_DATE", "TRAN_PROD", "TRAN_STAT", "TRAN_DESC", "TRAN_
10 "UNIT", "", "YYYY-mm-dd", "", "", "", "", "", "", ""
11 "TYPE", "X", "DT", "X", "X", "X", "X", "X", "X", "X", "X"
12 "DATA",
13
14 "GROUP", "DICT"
15 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D
16 "UNIT", "", "", "", "", "", "", "", ""
17 "TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"
18 "DATA",
19 "DATA",
20 "DATA",
21 "DATA",
22 "DATA",
23
24 "GROUP", "ABBR"
25 "HEADING", "ABBR_HDNG", "ABBR_CODE", "ABBR_DESC"
26 "UNIT", "", "", ""
27 "TYPE", "X", "X", "X"
28 "DATA", "DICT_DTYP", "PT", "Text listed in TYPE Group"
29 "DATA", "DICT_DTYP", "2DP", "Value; required number of decimal places, 2"
30 "DATA", "DICT_DTYP", "3DP", "Value; required number of decimal places, 3"
31 "DATA", "DICT_DTYP", "4DP", "Value; required number of decimal places, 4"
32 "DATA", "DICT_DTYP", "0SCI", "Scientific Notation; required number of decimal p
33 "DATA", "DICT_DTYP", "1SCI", "Scientific Notation; required number of decimal p
34 "DATA", "DICT_DTYP", "2SCI", "Scientific Notation; required number of decimal p
35 "DATA", "DICT_DTYP", "3SCI", "Scientific Notation; required number of decimal p
```

HeaderBlock

ValueBlock

Rows

- Header Blocks and Value Blocks each have a **Rows** collection
- Rows[0] refers to the first row



```
13  
14  
15 File.Sheets[0].TableBlocks[2].HeaderBlock.Rows[0]  
16 "GROUP", "DICT"  
17 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D  
18 "UNIT", "", "", "", "", "", "", "", "", ""  
19 "TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"  
20 "DATA", "  
21 "DATA", "  
22 "DATA", "  
23  
24  
25 "GROUP", "ABBR"
```

```
13  
14  
15 "GROUP", "DICT"  
16 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D  
17 "UNIT", "", "", "", "", "", "", "", "", ""  
18 "TYPE", "X", "X", "X", File.Sheets[0].TableBlocks[2].ValueBlock.Rows[0]  
19 "DATA", "HEADING"  
20 "DATA", "HEADING"  
21 "DATA", "HEADING"  
22 "DATA", "HEADING"  
23  
24  
25 "GROUP", "ABBR"
```

Columns

- Each Row has a **Columns** collection
- Columns[0] refers to the first column



```
13
14
15 "GROUP", "DICT"
16 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D
17 "UNIT", "", "", "", "", "", "", "", ""
18 File.Sheets[0].TableBlocks[2].ValueBlock.Rows[0].Columns[0]
19 "DATA", "
20 "DATA", "
21 "DATA", "
22 "DATA", "
23
24
25 "GROUP". "ABBR"
```

```
13
14 File.Sheets[0].TableBlocks[2].HeaderBlock.Rows[0].Columns[0]
15 "GROUP" "DICT"
16 "HEADING", "DICT_TYPE", "DICT_GRP", "DICT_HDNG", "DICT_STAT", "DICT_DTYP", "DICT_D
17 "UNIT", "", "", "", "", "", "", "", ""
18 "TYPE", "X", "X", "X", "PT", "X", "X", "X", "X", "X"
19 "DATA", "
20 "DATA", "
21 "DATA", "
22 "DATA", "
23
24
25 "GROUP". "ABBR"
```

Additional Notes

- Whenever you need to refer to ALL objects of a certain type use AllTableBlocks, AllRows etc.
- Most items will have properties like **File.Sheets[0].TableBlocks.Count** in addition to more specific properties like **File.FileSize**. When using the EI-CORE expression builder, the built-in intelligence can guide you through the available options.

Properties

In addition to the main elements, each element can have additional properties. These include:

File.NoDataValue

The value that represents that no real data value is present.

File.Size

Size of the file, in bytes.



File.CompressionAlgorithm

The compression algorithm used

File.PixelDepth

color resolution (in bits per pixel)

File.NumberOfBands

For image files, the number of bands.

File.Extension

The extension of the file.

File.Type

The file type, either Ascii or Binary.

File.EOL

Specifies the expected end-of-line character.

File.Delimiter

The character used to separate columns of data.

File.ValueEncloseCharacter

Specifies the character that encloses data.

File.ValueEscapeCharacter

Indicates that the subsequent character should have a special interpretation.

File.Sheets[index]

Used to refer to a sheet in a file. An Excel file may contain multiple sheets. A CSV file would only ever contain one sheet: Sheets[0]

File.AllSheets

can be used to refer to all sheets in a file

File.Sheets.Count

can be used to refer to the sheet count

File.Sheets[index].TableBlocks[index]

A TableBlock is a block of data and contains one HeaderBlock and one ValueBlock. A Sheet can contain one or more TableBlocks. Refer to a single TableBlock by specifying an index such as TableBlocks[0]

AllTableBlocks

can be used to refer to all TableBlocks in a sheet



TableBlocks.Count

can be used to refer to the TableBlock count.

File.Sheets[index].TableBlocks[index].HeaderBlock

A HeaderBlock is one or more rows of header data in a TableBlock.

File.Sheets[index].TableBlocks[index].ValueBlock

A ValueBlock is one or more rows of values in a TableBlock

File.Sheets[index].TableBlocks[index].HeaderBlocks.Rows[index]

A Row is simply a row of data. Refer to a single Row by specifying an index such as Rows[0].

AllRows

can be used to refer to all rows

File.Sheets[index].TableBlocks[index].HeaderBlocks.Rows[index].Columns[index]

Refer to a single Column in the Row by specifying an index such as Column[0].

File.Sheets[index].TableBlocks[index].HeaderBlocks.Rows[index].Columns[index].Cell

A Cell is found at the intersection of a Row and Column

File.Sheets[index].TableBlocks[index].HeaderBlocks.Rows[index].Columns[index].Cell.Value

Represent the value of a cell.

Example: `File.AllSheets.AllTableBlocks.ValueBlock.AllRows.Columns[0].Cell.ValueAsNumber > 0`

In

Use the In function to check to see if a value matches with a list of values. For example:

`Cell.Value.In("String1","String2","String3")`

Value

Represents the TEXT value of a cell

Use when you wish to refer to the cell value as a string or text

Example: `File.AllSheets.AllTableBlocks.HeaderBlock.Rows[0].Columns[0].Cell.Value == "HEADING1"`

ValueAsNumber

Represents the NUMERIC value of a cell

Use when you wish to refer to the cell value as a number

Example: `File.AllSheets.AllTableBlocks.ValueBlock.AllRows.Columns[0].Cell.ValueAsNumber > 0`



Variables

StringVariables

```
File.Sheets[0].TableBlocks[0].ValueBlock.AllRows.Columns[0].Cell.ValueAsNumber >  
FileStructure.StringVariables["xxx"]
```

NumberVariables

```
Example: File.Sheets[0].TableBlocks[0].ValueBlock.AllRows.Columns[0].Cell.ValueAsNumber >  
FileStructure.NumberVariables["xxx"]
```

Operators

Equals

== true if its operands are equal.

Not Equal

!= not equal

Less than

< is true if its left-hand operand is less than its right-hand operand.

Greater Than

> is true if its left-hand operand is greater than its right-hand operand.

Less than or equal to

<= is true if its left-hand operand is less than or equal to its right-hand operand.

Greater than or equal to

>= is true if its left-hand operand is greater than or equal to its right-hand operand.



EI-CORE Data documentation

Document revision date: 2020-03-04

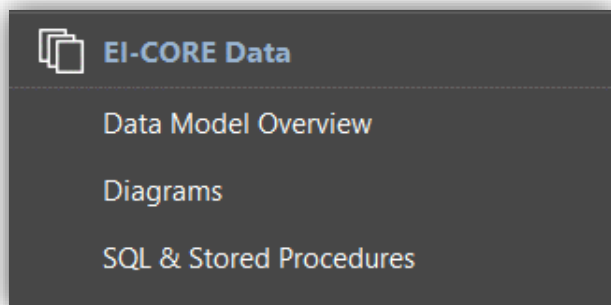
Data Model Documentation

There are two tools within EI-CORE that can be used to obtain an understand of how the underlying database is constructed.

The **Data Model Overview** module can be used to view a report that summarizes all tables within the EI-CORE database.

The **Diagrams** tool can be used to see how the main tables within the EI-CORE database are connected.

Both types of documentation are generated on-the-fly based on master documentation kept on our servers. As a result, the documentation can continuously be improved and updated without requiring new versions of EI-CORE to be installed.



Data Model Overview

The data model overview report can be generated by going to the Data Model Overview module, located under the EI-CORE data heading.



TABLE: D_APPLICATION

Table Name	Alias				
D_APPLICATION	Applications				
Applications. The Application table (D_APPLICATION) is used to store information about applications and where there are stored. Applications are linked to Output schemas so that dependencies can be tracked.					
Column Name	Alias	Is Primary Key	Is Required	Data Type	Description
APP_ID	Application ID	Yes	Yes	int	Application ID. A unique integer ID for each record.
APP_NAME	Application Name	Yes	Yes	nvarchar(100)	Application Name. The name of the application.
APP_PATH	Path	Yes	Yes	nvarchar(260)	Path. The path to the folder containing the application.
APP_DESCRIPTION	Description	Yes	Yes	nvarchar(MAX)	Description. Detailed description of what this item is.
APP_COMMENT	Comment	Yes	Yes	nvarchar(MAX)	Comment. Information about how this item is used or implemented.
APP_ABBR	Abbreviation	Yes	Yes	nvarchar(50)	Abbreviation. An abbreviation for the application.
APP_SUBVERSION	Subversion	Yes	Yes	int	Subversion. A number indicating the subversion number.
APPV_ID	Application Version ID	Yes	Yes	int	Application Version ID. Represents main application version. Links to Application Version table (D_APPLICATION_VERSION).
APPT_ID	Application Type ID	Yes	Yes	int	Application Type ID. Represents the application type. Links to Application Type table (R_APPLICATION_TYPE).
APPS_ID	Application Status ID	Yes	Yes	int	Application Status ID. Represents the application status. Links to Application Status table (R_APPLICATION_STATUS).
APP_ORDER	Order Number	Yes	Yes	decimal(18,5)	Order Number. In cases where visual order is important this can be used to control display order.
APP_SOURCE_APP_ID	Source Application ID	Yes	Yes	int	Source Application ID. When a new version of an application is created, this is used to store the Application ID (APP_ID) of the source application.
APP_DATE_CREATED	Date Created	Yes	Yes	datetime2	Date Created. Date that record was first created.
APP_DATE_LAST_MODIFIED	Date Last Modified	Yes	Yes	datetime2	Date Last Modified. Date that record was last modified.
APP_USER_CREATED	Created By	Yes	Yes	nvarchar(100)	Created By. Username of account used when record first created.

Tuesday, March 3, 2020 11:53 PM
EI-CORE Database Overview Report
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The report contains the following information.

For each table:

- Table Name – Name of the table as it appears in SQL Server
- Alias – A user-friendly name for the table
- Description – a description that contains the intended purpose for the table

For each column (within each table):

- Column Name – the name of the column as it appears in SQL Server
- Alias – A user-friendly name for the column
- Is Primary Key – Indicates whether the column is part of the table primary key or not
- Is Required – indicates whether the column is required (or optional)
- Data Type – the SQL Server data type assigned to the column
- Description – a description that contains the intended purpose for the column



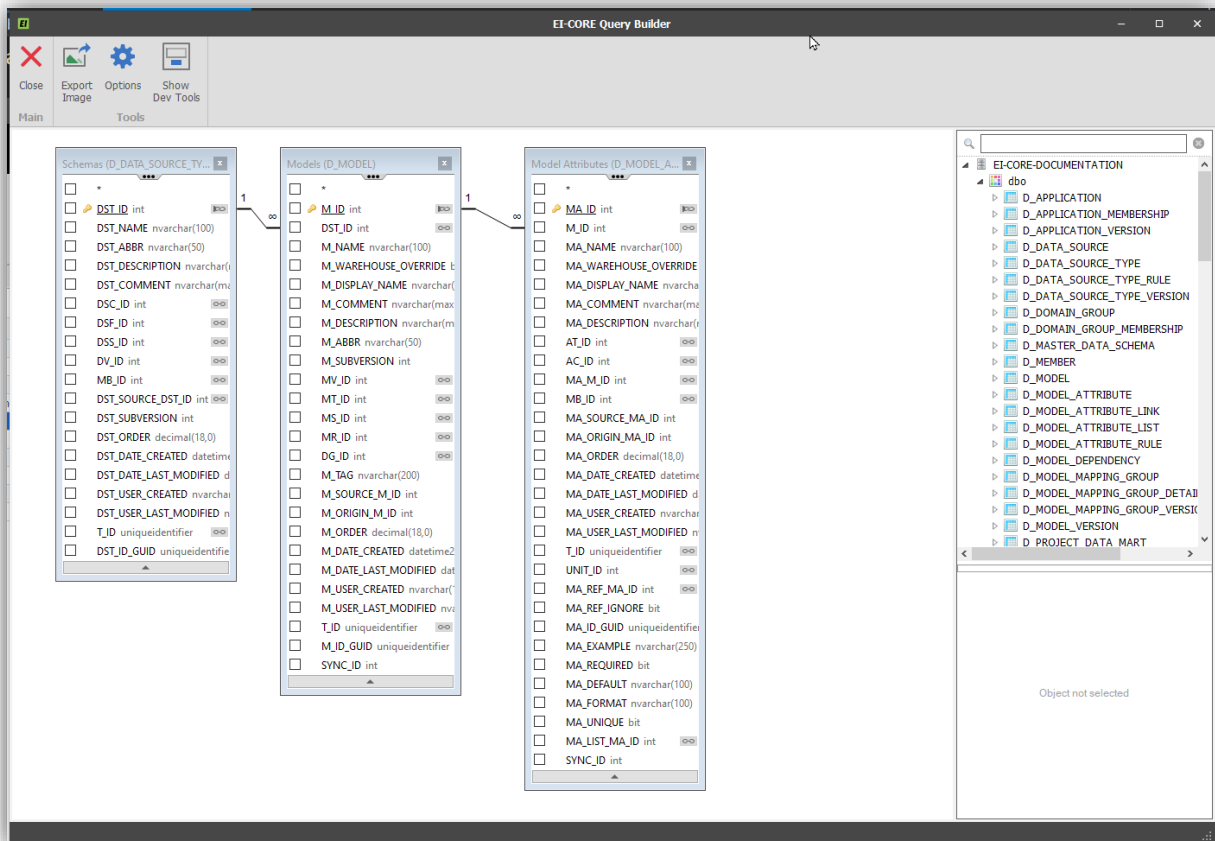
The Document Map at the left can be used to jump to any specific table in the database. The toolbar at the top can be used print, export and manipulate the report in other ways (e.g. zoom, page size etc).

Diagrams

The diagrams tool can be used to view diagrams that include the main database tables and how they are connected.

Diagram	Description
Activities	Activity Name and type.
Activity Responses	
Activity Template Items	
Applications	Applications are tracked in order to document dependencies between applications and models.
Main Tables	This diagram illustrates the main EI-CORE tables.
Model Status	Model ID, name and status.
Model Version	Model name and version.
Projects	
Rule Sets	Rule Set name, version and status.
Schemas	Schema class (type), name, version and status.

The diagrams are not static images and therefore the user can manipulate the diagram to gain a better understanding of the tables and relationships of the EI-CORE database.



Diagrams can be exported to .png images using the Export Image button on the toolbar.

The Diagrams viewer can also be used to generate SQL. By clicking the Show Dev Tools button, additional panels appear, and the tool operates as query builder.



“Group and Filter”
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Close Export Image Options Show Dev Tools

Main Tools

Schemas (D_DATA_SOURCE_TYP...)
Models (D_MODEL)
Model Attributes (D_MODEL_A...)

Visible	Expression	Column Name	Sort T...	Sort Order	Aggregate	Grouping	Criteria	Or	Or
<input checked="" type="checkbox"/>	Schemas.DST_NAME					<input type="checkbox"/>			
<input checked="" type="checkbox"/>	Schemas.DST_ABBR					<input type="checkbox"/>			
<input checked="" type="checkbox"/>	Schemas.DST_DESCRIPTION					<input type="checkbox"/>			
<input type="checkbox"/>						<input type="checkbox"/>			

Main Query SQL Active Query SQL Active Query Result Preview

```
Select Schemas.DST_NAME,  
Schemas.DST_ABBR,  
Schemas.DST_DESCRIPTION  
From D_DATA_SOURCE_TYPE Schemas  
Inner Join D_MODEL Models On Schemas.DST_ID = Models.DST_ID  
Inner Join D_MODEL_ATTRIBUTE [Model Attributes] On Models.M_ID =  
[Model Attributes].M_ID
```




EI-CORE Overview

EI-CORE version number: 2.04.85.00

Document revision date: 2020-01-24

The EI-CORE user interface consists of several elements. Some are encountered in every view – others are context dependent and accessible only in certain views.

The basic elements are:

Menu Panel(1) Menus(2) Modules(3) Schema level selector(4) Task bar(5) Grid(6) Locator bar(7) Search-and group bar(8) Activity Pane(9) Header bar(10)

This guide offers a basic description of each.



EI-CORE 2.04.85.00

- Home
- Setup
- Data Sources
- Models
 - Exchange
 - Input
 - Knowledge Hub
 - Output
- Translations
- Business **2**
 - Projects
 - Applications **3**
 - Services

4

Models Attributes Schemas Rules

Save Delete Selected Cancel & Refresh Add Row Grid Find Column Filter Last Modified Data Type Show Rules Data Entry Power Edit Mode

[Schema]: [Model]: [Type]: Data [Status]: Open [Behaviour]: Standard

Drag a column header here to group by that column **8**

Select	Class	Display Name	Unit	Type	Owner	Comment
<input type="checkbox"/>	Workshop	1000_00	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_100	h	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_200	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1000	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_20	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_300	h	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_400	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_500	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_600	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_700	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_800	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_900	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1000	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1100	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1200	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1300	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1400	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1500	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1600	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1700	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1800	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_1900	unitless	Time/HR Day		
<input type="checkbox"/>	Workshop	1000_2000	unitless	Time/HR Day		

6

1

Record 1 of 16



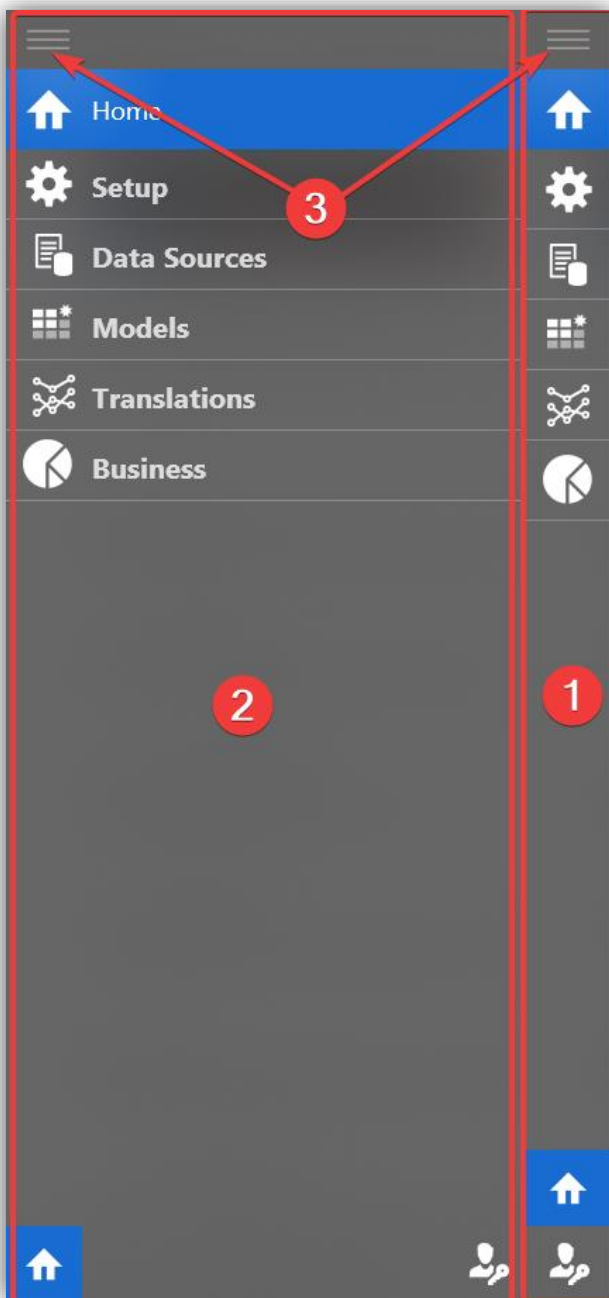
"Group and Filter"
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EI-GROUP
Makes Knowledge Matter

Menu Panel



The **Menu Panel** is the main entry for accessing EI-CORE functions, it can be collapsed(1) and expanded(2) by pressing the **Menu-Button(3)** in the top of the panel:

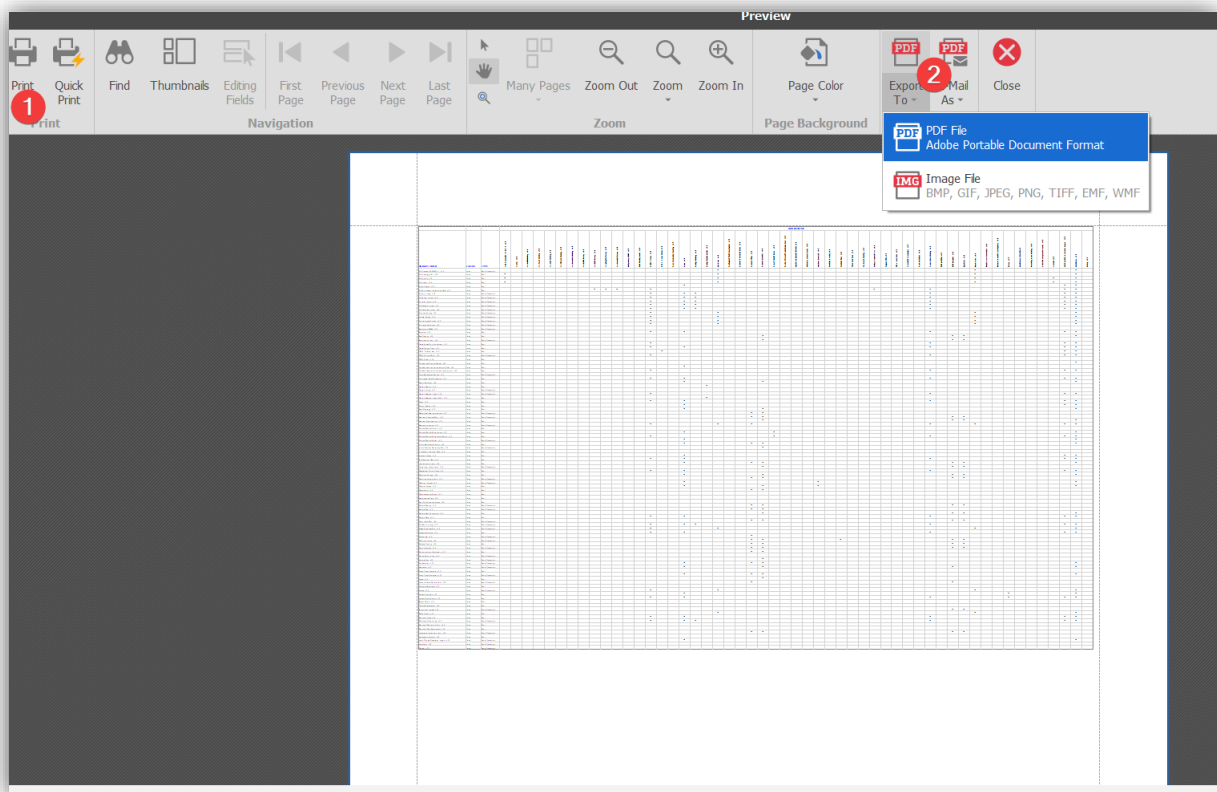




“Group and Filter”
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Print Preview

Opens a separate print- and share window for the matrix. Select **Print(1)** to send to a connected printer or export it to a file or email(2):



Menus

Menus groups related functions under a common headline.

Modules

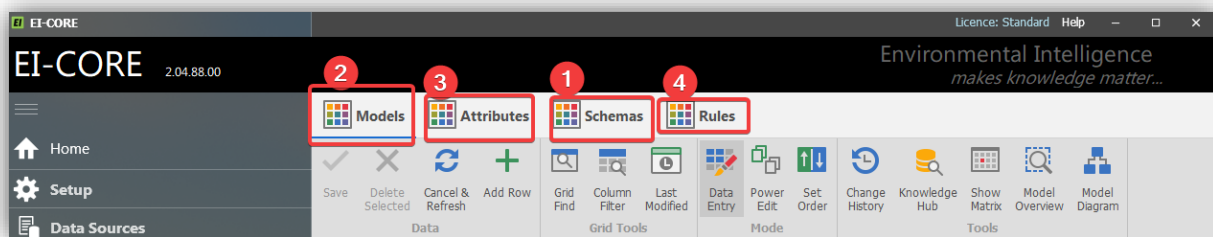
Modules are defined areas of functionality.

Schema level selector

An EI-CORE module usually hierarchically structured with the top level being the **Schema(1)**. A Schema consists of **Models(2)** and a model has certain **Attributes(3)**. In addition, some modules grants additional



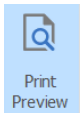
options like **Rules(4)** that can be applied to certain modules. Navigating the Schema is done in the Schema level selector above the Task bar by selecting the appropriate button:



Task Bar

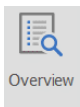
The task bar presents the tasks that can be performed in the given view. Not every task can be performed in every view, and tasks may result in different outcome dependent of the context it is executed within:

Print Preview



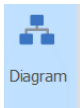
Opens a separate print- and share window

Overview



Generates a summarizing report for printing and/or saving

Diagram



Shows a simplified relational diagram

Design Status



Generates a report of design progress.

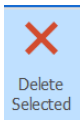


Save



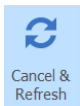
Saves changes made

Delete Selected



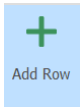
Deletes Rows in the grid that has been selected for deletion

Cancel and Refresh



Cancels any changes and refreshes the view

Add Row

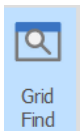


When a new row has been entered this button adds it to the grid:

When editing a new row(1), that row is added to the grid by selecting the **Add Row** button. Clicking anywhere else outside the new row will do the same though:

Select	Status	Source	Destination	Name	Comment	Script	Owner	Sub Version	Order
<input type="checkbox"/>	Open	...	...	Test		...	...	0	0

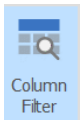
Grid Find



Displays a search field in the top of the grid

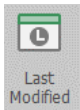


Column Filter



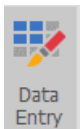
Toggles on/off a filter row in the top of the grid

Last Modified



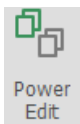
Toggles on/off the Columns: “Date Last Modified”, “Created By”, “Date Created” and “Last modified by”.

Data Entry



The default mode for entering data in EI-CORE.

Power Edit



Switches from Data Entry Mode to Power Edit mode for advanced editing.

Grid

The grid is where data entered, viewed and otherwise handled.

Locator Bar

The locator bar shows which data is currently in the grid and allows for navigation within the selected module.

Search- and Group Bar

Data from the grid, can be grouped by dragging column headlines into it. It also contains a search field.



Activity Pane

If activities are assigned to the current module, they are shown and handled in the activity pane.

Header Bar

Beside general window-controls (resize, maximize, minimize, close), the header bar contains the license button and the help button.



"Group and Filter"
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EI-GROUP
Makes Knowledge Matter

EI-CORE Walk Throughs

The EI-CORE Walk Throughs provide a set of easy to follow instructions in frequently used operations.



"Creating new Subject Model in EI-CORE"
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Creating new Subject Model

V. 2.03.28.00 06-08-2019



- ✓ Locate to the **Models** menu from the start up screen, and select the **Information Hub** sub-menu:

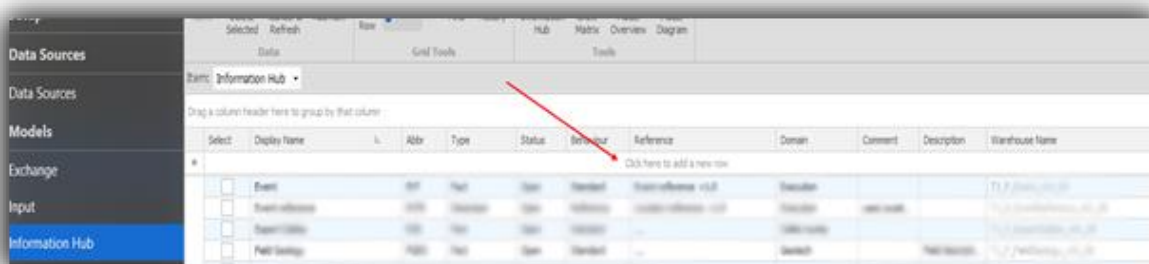
Item: Information Hub

Drag a column header here to group by that column.

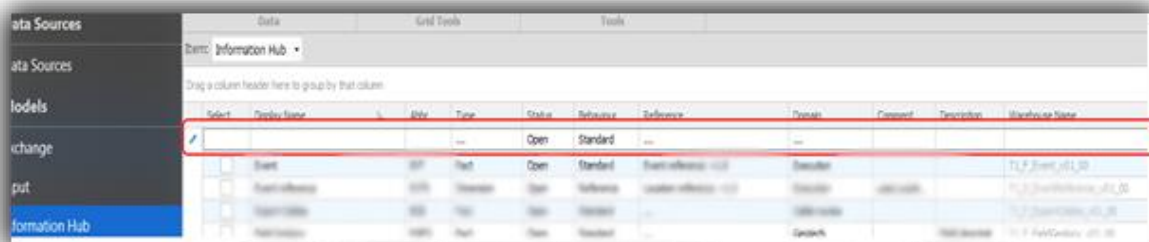
Select	Display Name	Abbr	Type	Status	Behaviour	Reference
<input type="checkbox"/>	Geological Fact description	GECD	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geotech Chemical Tests	GECH	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geotech Clay	GECL	Dimension	Open	Standard	File-reference v1.0
<input type="checkbox"/>	Geotech Comp/Modulus	GECM	Fact	Open	Standard	...
<input type="checkbox"/>	Geotech Location	GELO	Fact+Dimension	Open	Standard	Location-reference
<input checked="" type="checkbox"/>	Grid reference	GRDR	Dimension	Open	Reference	File-reference v1.0
<input type="checkbox"/>	Ground Model Output	GMOD	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Core Layers	GMOL	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Core Header Frame	GMHF	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Core	GMOC	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	In-Situ electrical resistivity	ISER	Fact	Open	Standard	...
<input type="checkbox"/>	In-situ Thermal Resistivity Test	ITRT	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Institution Logging Data	ILD	Fact	Open	Standard	...
<input type="checkbox"/>	Intrinsic Viscosity	IVIS	Fact	Open	Standard	...
<input type="checkbox"/>	LC Forecasting	LCF	Fact	Open	Standard	...
<input type="checkbox"/>	LCF modelling tests	LCMT	Fact	Open	Standard	...
<input type="checkbox"/>	Leak and seepage tests	LLPT	Fact+Dimension	Open	Standard	...



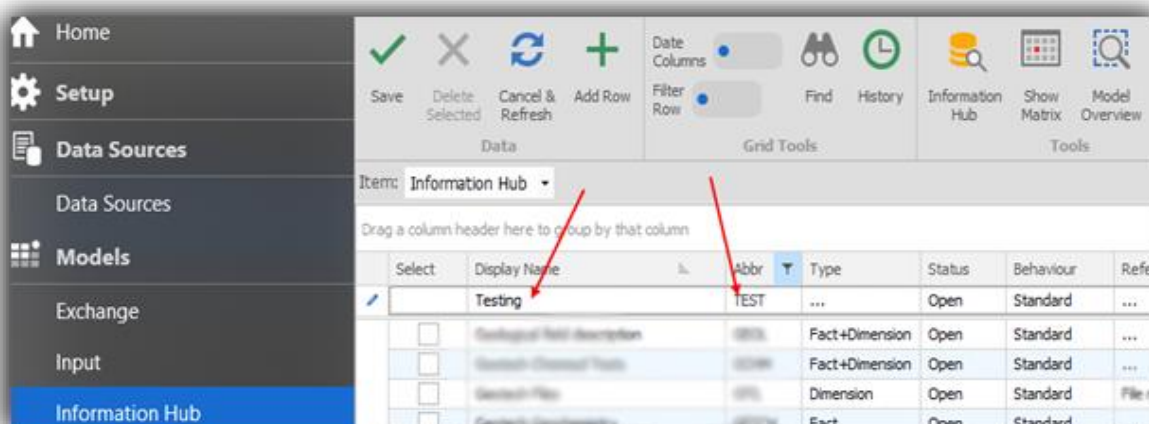
- ✓ Locate the blank row at the top of the grid:



- ✓ Click the blank row once to start editing:

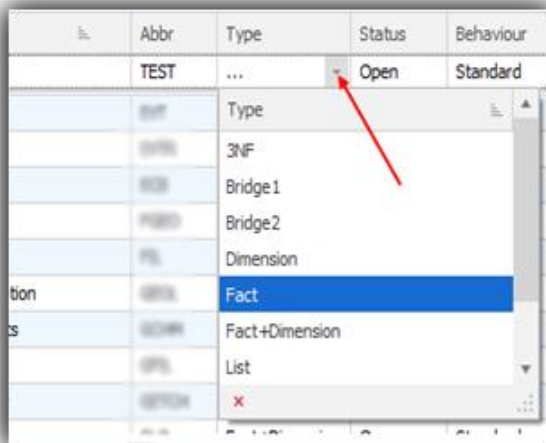


- ✓ Enter **Display Name** and **Abbreviation**:

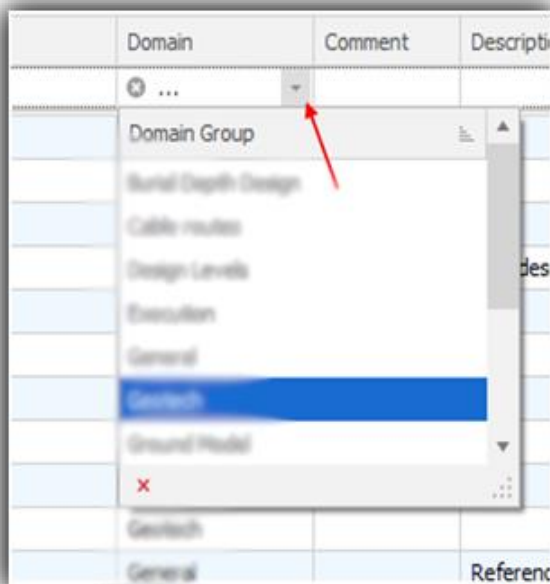




- ✓ Select appropriate Type from the **Type drop-down menu**:

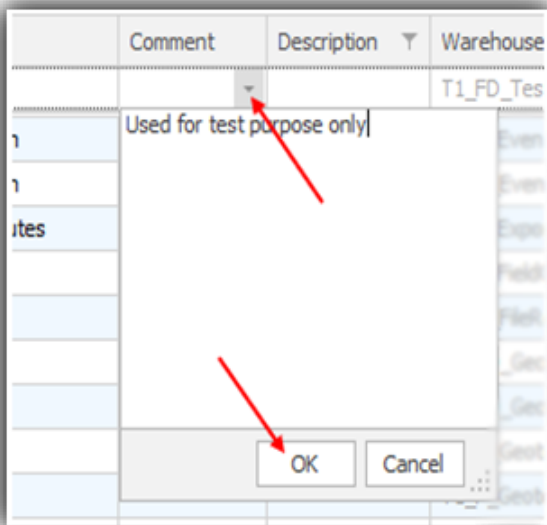


- ✓ Select Domain from the **Domain drop-down menu**:





- ✓ Enter any comments in the optional **Comment** drop-down menu and click **OK** button to save:





- ✓ Enter a description in the optional **Description** drop-down menu and click **OK** button to save:

The image shows a software dialog box with two main sections: 'Description' and 'Warehouse Name'. The 'Description' section has a text area containing the text 'Test values used for testing purposes only'. A red arrow points to a small downward-pointing arrow icon on the left side of the text area, indicating it is a drop-down menu. Another red arrow points to the 'OK' button at the bottom of the dialog box. The 'Warehouse Name' section is currently empty. At the bottom right, there are 'OK' and 'Cancel' buttons.



- ✓ Click **Add Row**. The new row will appear in the bottom of the grid (clicking anywhere inside the grid will do the same):

The screenshot displays the EI-CORE software interface. The top toolbar includes a red arrow pointing to the 'Add Row' button (represented by a plus sign). Below the toolbar is a table with columns: Model Name, ID, Type, Status, Reference, Reference, Domain, Comments, Description, and Warehouse Name. A red arrow points to a new row added at the bottom of the table, which is highlighted in blue. The table contains various model entries such as 'Route Port-Landing-reference', 'Soil profile', 'Soil Samples', 'Location', 'Start Date', 'Soils Core Elements', 'Soils Core Attributes', 'Shells', 'Structure Detail Description', 'Through Penetration', 'Survey', 'Survey Grid File', 'Survey-reference', 'Survey Route Points', 'Target Depth', 'Thermal Resistance', 'Total stress Head', 'Traffic Stress', 'Transfer Data Logging', 'Tranching Data', 'Tranching Logfile', 'Tranching Tool and Data', 'Tranching Tool Parameters', 'Unsat. compression tests', 'Verification Surveys', 'Weeds', 'Wind Tunnel Data Collection', 'Windburn', 'Zoning', 'Zonal', and 'Zonal'.



✓ Click **Save**:

The screenshot shows the EI-CORE interface. At the top, there are two tabs: "Models" and "Attributes". Below the tabs is a toolbar with several icons and labels: a green checkmark labeled "Save", a grey 'X' labeled "Delete Selected", a blue circular refresh icon labeled "Cancel & Refresh", and a green plus sign labeled "Add Row". To the right of these are "Date Columns" and "Filter Row" toggle switches, and "Find" and "History" icons. Below the toolbar is a dropdown menu labeled "Item:" with "Information Hub" selected. Underneath is a text prompt: "Drag a column header here to group by that column". At the bottom, there is a table with columns: "Display Name", "Abbr", "Type", and "Status". The first row of the table has an asterisk (*) in the "Display Name" column.



❖ Done!

The new model is now saved in EI-CORE:

The screenshot shows the 'Models' tab in the EI-CORE software. The interface includes a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Filter Row, Date Columns, Find, History, Information Hub, Show Matrix, Model Overview, and Model Diagram. Below the toolbar, the 'Item: Information Hub' is selected. A table of subject models is displayed with columns for Display Name, Abbr, Type, Status, Behaviour, Reference, Domain, and Co. A red arrow points to a new row labeled 'Testing' with the abbreviation 'TEST'.

Display Name	Abbr	Type	Status	Behaviour	Reference	Domain	Co
Router Port Linking Reference	RLR	Dimension	Open	Reference	Router-reference <1,2>	Cable routes	
Router Port	RLR/PA	Fact+Dimension	Open	Standard	...	Devices	
Port Location	RLR	Fact+Dimension	Open	Standard	...	Devices	
Location	RLR	Fact+Dimension	Open	Standard	...	Devices	
Port State	RLR	Dimension	Open	Role Playing	Data-reference <1,2>	General	
Router Core Interface	RCI	Fact	Open	Standard	...	Devices	
Router Core Port	RCI/P	Fact+Dimension	Open	Standard	...	Devices	
Router	RCI	Fact	Open	Standard	...	Devices	
Router Core Description	RCI/D	Fact+Dimension	Open	Standard	...	Devices	
Through Parameter	TP	Fact	Open	Standard	...	Devices	
Service	SRV	Fact+Dimension	Open	Standard	Service-reference <1,2>	Services	
Service End Point	SEP	Fact	Open	Standard	...	Services	
Service Reference	SRV	Dimension	Open	Reference	...	Services	SRV
Service Router Port	SRV/P	Fact	Open	Standard	...	Services	SRV
Router Health	RH	Fact	Open	Standard	...	Router Health Design	
Testing	TEST	Fact+Dimension	Open	Standard	...	Devices	
Through Parameters	TPM	Fact	Open	Standard	...	Devices	
Through Parameter	TP	Fact+Dimension	Open	Standard	...	Devices	
Health Design	RHD	Fact	Open	Standard	...	Router Health Design	TP
Router Linking	RL	Fact+Dimension	Open	Standard	Router-linking/Port-reference <1,2>	Devices	



Assigning other-model relations to Subject Models

V. 2.03.28.00 06-08-2019

- ✓ Locate to the **Models** menu from the start up screen, and select the **Information Hub** sub-menu:

The screenshot shows the EI-CORE software interface. The top left corner displays 'EI-CORE 2.03.28.00'. A navigation menu on the left includes options like Home, Setup, Data Sources, Models, Exchange, Input, Information Hub (highlighted in blue with a red arrow), Output, Translations, Design, Business, Projects, Applications, and Services. The main area shows a 'Models' menu with 'Attributes' and a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Date Columns, Filter Row, Grid Tools, Find, History, Information Hub, Show Matrix, Model Overview, and Model Diagram. Below the toolbar, the 'Item: Information Hub' is selected, and a table of model data is displayed.

Select	Display Name	Abbr	Type	Status	Behaviour	Reference
<input type="checkbox"/>	Geological Bed Description	0001	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geological Channel Type	0002	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geological Clay	0003	Dimension	Open	Standard	...
<input type="checkbox"/>	Geological Claystone	0004	Fact	Open	Standard	...
<input type="checkbox"/>	Geological Coal	0005	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geological Dimension	0006	Dimension	Open	Reference	...
<input type="checkbox"/>	Geological Gypsum	0007	Fact	Open	Standard	...
<input type="checkbox"/>	Geological Sandstone	0008	Fact	Open	Standard	...
<input type="checkbox"/>	Geological Sandstone Bedrock	0009	Fact	Open	Standard	...
<input type="checkbox"/>	Geological Sandstone	0010	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	In Situ Electrical Resistivity	0011	Fact	Open	Standard	...
<input type="checkbox"/>	In Situ Thermal Conductivity Test	0012	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Insulation Logging Data	0013	Fact	Open	Standard	...
<input type="checkbox"/>	Insulation Cable	0014	Fact	Open	Standard	...
<input type="checkbox"/>	Ion Transporting	0015	Fact	Open	Standard	...
<input type="checkbox"/>	Lab Resistance Test	0016	Fact	Open	Standard	...
<input type="checkbox"/>	Load and Stress Test	0017	Fact+Dimension	Open	Standard	...



- ✓ Highlight the model you want to edit, and click the **Attributes** icon:

The screenshot shows the EI-CORE 2.03.28.00 interface. The left sidebar contains a navigation menu with items: Home, Setup, Data Sources, Models, Exchange, Input, Information Hub (highlighted), Output, Translations, Design, Business, Projects, Applications, and Services. The main area is titled 'EI-CORE 2.03.28.00' and has two tabs: 'Models' and 'Attributes'. The 'Attributes' tab is active, showing a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Date Columns, Filter Row, Find, History, Information Hub, Show Matrix, and More. Below the toolbar, the 'Item:' dropdown is set to 'Information Hub'. A table of models is displayed with columns: Select, Display Name, In, Abbr, Type, Status, and Behaviour. The 'Testing' model is highlighted in blue. A red arrow points from the 'Attributes' icon in the toolbar to the 'Testing' model row. Another red arrow points from the 'Information Hub' menu item in the sidebar to the table area.

Select	Display Name	In	Abbr	Type	Status	Behaviour
<input type="checkbox"/>	Residue From Loading Reference		RESL	Dimension	Open	Reference
<input type="checkbox"/>	Residue Profile		RESLPR	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue Samples		RESLSP	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue		RESL	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue Mass		RESLMS	Dimension	Open	Role Playing
<input type="checkbox"/>	Residue Count Interval		RESLCI	Fact	Open	Standard
<input type="checkbox"/>	Residue Count Parameter		RESLCP	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue		RESL	Fact	Open	Standard
<input type="checkbox"/>	Residue Count Descriptions		RESLCD	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue Parameter		RESLPR	Fact	Open	Standard
<input type="checkbox"/>	Residue		RESL	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Residue Count Map		RESLCP	Fact	Open	Standard
<input type="checkbox"/>	Residue Reference		RESLREF	Dimension	Open	Reference
<input type="checkbox"/>	Residue Sample Mass		RESLMS	Fact	Open	Standard
<input type="checkbox"/>	Residue Mass		RESLMS	Fact	Open	Standard
<input checked="" type="checkbox"/>	Testing		TEST	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Thermal Parameters		TESL	Fact	Open	Standard
<input type="checkbox"/>	Thermal Mass Interval		TESLMI	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Thermal Mass		TESLMS	Fact	Open	Standard



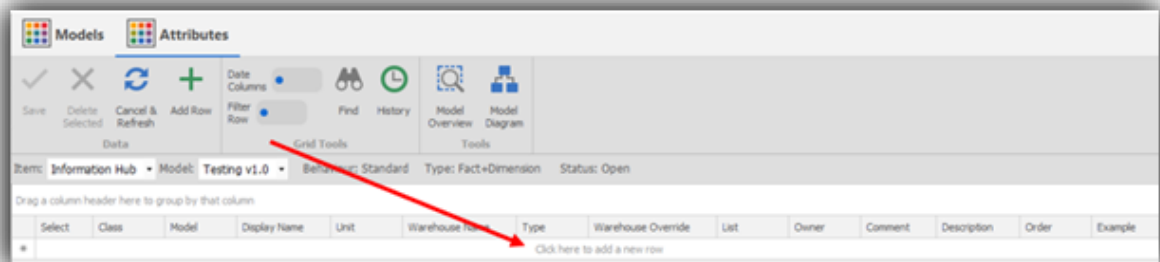
- ✓ Wait for the **Attributes**-view to load, and verify that the correct **Item** and **Model** is selected:

The screenshot displays the EI-CORE application interface. The top header shows "EI-CORE 2.03.28.00". A left sidebar contains navigation options: Home, Setup, Data Sources, Models, Exchange, Input, Information Hub (highlighted in blue), Output, and Translations. The main content area is titled "Attributes" and includes a toolbar with icons for Save, Delete Selected, Cancel & Refresh, and Add Row. Below the toolbar, the "Item" is set to "Information Hub" and the "Model" is set to "Testing v1.0". A table below shows columns for Select, Class, Model, Display Name, and Unit. Two red arrows point from the "Information Hub" dropdown to the "Class" column and from the "Testing v1.0" dropdown to the "Model" column.

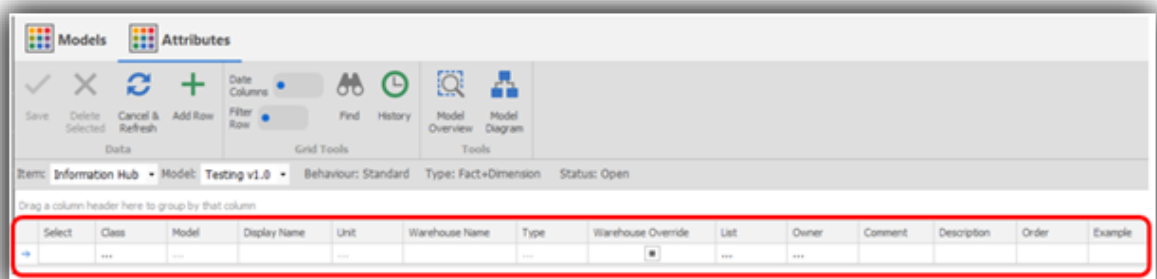


“Assigning other-model relations to Subject Models in EI-CORE”
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- ✓ Locate the empty line at the top of the and click it once:

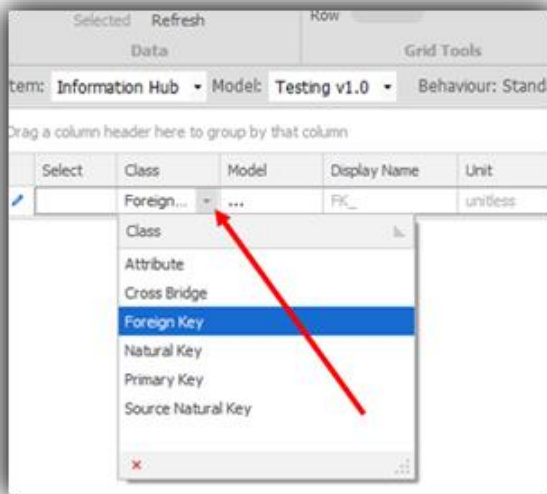


- ✓ The line now looks like this:

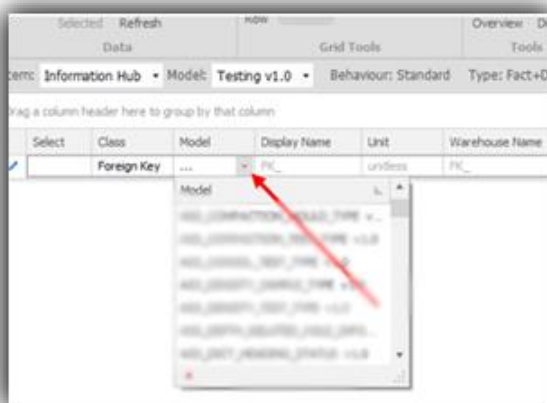




- ✓ Select **Foreign Key** or **Cross Bridge** as desired from the **Class drop-down menu**:

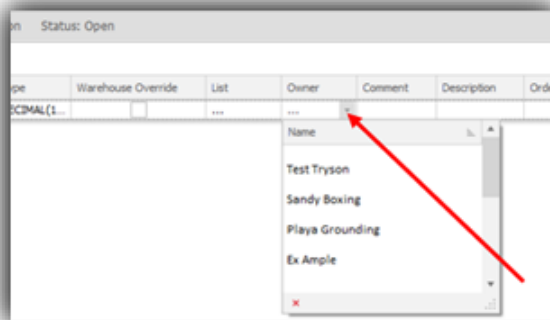


- ✓ Select desired model from the **Model-drop-down-menu**:

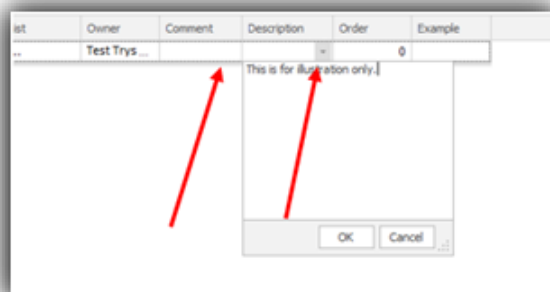




- ✓ Assign owner from the **Owner** drop-down menu:

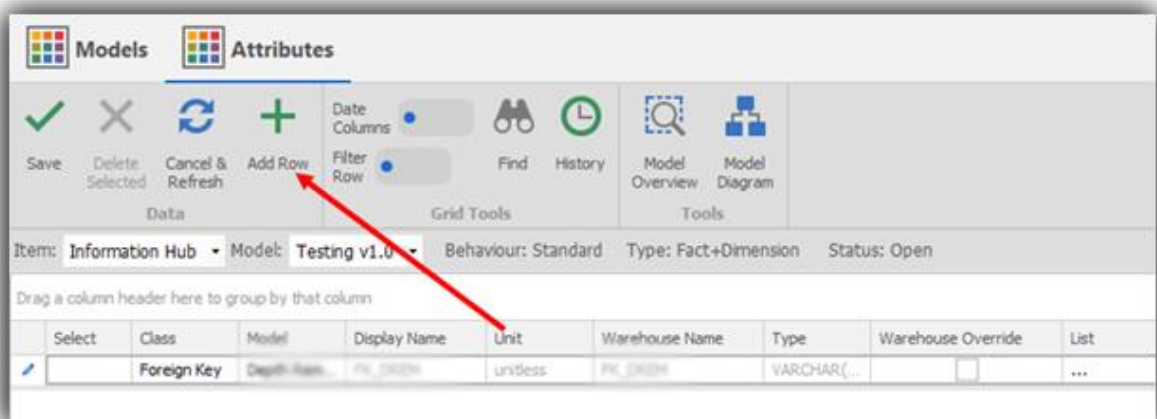


- ✓ Enter **Comment** and **Description** in the optional drop-down menus:

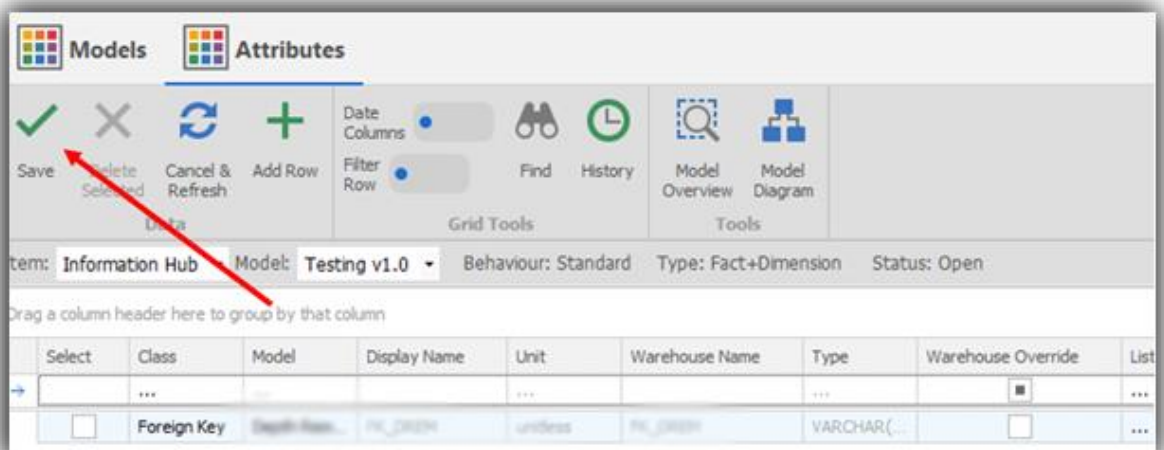




- ✓ Click the **Add Row** icon to add the row to the model (clicking anywhere inside the grid will accomplish the same):



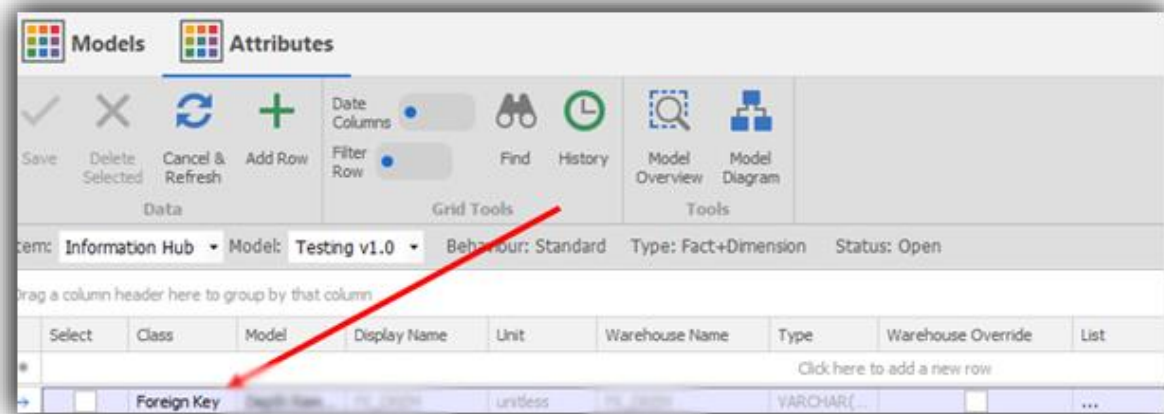
- ✓ Click the **Save** icon to save the model with the new relation:





“Assigning other-model relations to Subject Models in EI-CORE”
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❖ Done, the model is saved with the new relation:





Assigning attributes to Subject Models

v. 2.03.28.00 05-08-2019

- ✓ Locate to the **Models** menu from the start up screen, and select the **Information Hub** sub-menu:

The screenshot shows the EI-CORE software interface. The left sidebar contains a navigation menu with the following items: Home, Setup, Data Sources, Models (highlighted in yellow), Exchange, Input, Information Hub (highlighted in blue with a red arrow pointing to it), Output, Translations, Design, Business, Projects, Applications, and Services. The main window is titled 'EI-CORE 2.03.28.00' and has two tabs: 'Models' and 'Attributes'. Below the tabs is a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Date Columns, Filter Row, Find, History, Information Hub, Show Matrix, Model Overview, and Model Diagram. The 'Information Hub' sub-menu is selected, and the main area displays a table of subject models. The table has the following columns: Select, Display Name, Abbr, Type, Status, Behaviour, and Reference. The table contains 18 rows of data, including items like 'Geological Bed Description', 'Geotech Chemical Tests', 'Geotech File', 'Geotech Geotechnical Property', 'Geotech Investigation', 'Grid reference', 'Ground Model Output', 'Ground Model Cross Layers', 'Ground Model Cross-Header Points', 'Ground Model Zones', 'In-Situ electrical resistivity', 'In-situ Thermal Resistivity Test', 'Investigation Logging Data', 'Inspection Tables', 'Soil Forecasting', 'Soil moisture tests', and 'Soil and water tests'.

Select	Display Name	Abbr	Type	Status	Behaviour	Reference
<input type="checkbox"/>	Geological Bed Description	GBD	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geotech Chemical Tests	GCT	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Geotech File	GF	Dimension	Open	Standard	File reference +...
<input type="checkbox"/>	Geotech Geotechnical Property	GTP	Fact	Open	Standard	...
<input type="checkbox"/>	Geotech Investigation	GI	Fact+Dimension	Open	Standard	Location reference
<input type="checkbox"/>	Grid reference	GR	Dimension	Open	Reference	File reference +...
<input type="checkbox"/>	Ground Model Output	GMO	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Cross Layers	GML	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Cross-Header Points	GMLP	Fact	Open	Standard	...
<input type="checkbox"/>	Ground Model Zones	GMZ	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	In-Situ electrical resistivity	IRS	Fact	Open	Standard	...
<input type="checkbox"/>	In-situ Thermal Resistivity Test	ITRT	Fact+Dimension	Open	Standard	...
<input type="checkbox"/>	Investigation Logging Data	ILD	Fact	Open	Standard	...
<input type="checkbox"/>	Inspection Tables	IT	Fact	Open	Standard	...
<input type="checkbox"/>	Soil Forecasting	SF	Fact	Open	Standard	...
<input type="checkbox"/>	Soil moisture tests	SMT	Fact	Open	Standard	...
<input type="checkbox"/>	Soil and water tests	SWT	Fact+Dimension	Open	Standard	...



- ✓ Highlight the model you want to edit, and click the **Attributes** icon:

The screenshot displays the EI-CORE 2.03.28.00 interface. The left sidebar contains navigation options: Home, Setup, Data Sources, Models, Exchange, Input, Information Hub (highlighted), Output, Translations, Design, Business, Projects, Applications, and Services. The main area is titled 'Models' and 'Attributes'. The 'Attributes' tab is active, showing a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Date Columns, Filter Row, Find, History, Information Hub, Show Matrix, and More. Below the toolbar, the 'Item' is set to 'Information Hub'. A table lists various models with columns for Select, Display Name, In, Abbr, Type, Status, and Behaviour. The 'Testing' model is highlighted in blue. A red arrow points from the 'Attributes' icon in the toolbar to the 'Testing' row in the table.

Select	Display Name	In	Abbr	Type	Status	Behaviour
<input type="checkbox"/>	Route from Loading Reference		RRR	Dimension	Open	Reference
<input type="checkbox"/>	Test Profile		TRP	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Test Scenario		TRS	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Test Suite		TRS	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Test Step		TRP	Dimension	Open	Role Playing
<input type="checkbox"/>	Test Case Interval		TCI	Fact	Open	Standard
<input type="checkbox"/>	Test Case Parameter		TCP	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Test		TR	Fact	Open	Standard
<input type="checkbox"/>	Test Case Description		TRD	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Weight Parameter		WP	Fact	Open	Standard
<input type="checkbox"/>	Service		S	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Service End Map		SEM	Fact	Open	Standard
<input type="checkbox"/>	Service Reference		SR	Dimension	Open	Reference
<input type="checkbox"/>	Service Test Map		STM	Fact	Open	Standard
<input type="checkbox"/>	Test Case Interval		TCI	Fact	Open	Standard
<input type="checkbox"/>	Test Case		TC	Fact	Open	Standard
<input checked="" type="checkbox"/>	Testing		TEST	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Thermal Parameters		TP	Fact	Open	Standard
<input type="checkbox"/>	Test Case Interval		TCI	Fact+Dimension	Open	Standard
<input type="checkbox"/>	Test Case		TC	Fact	Open	Standard



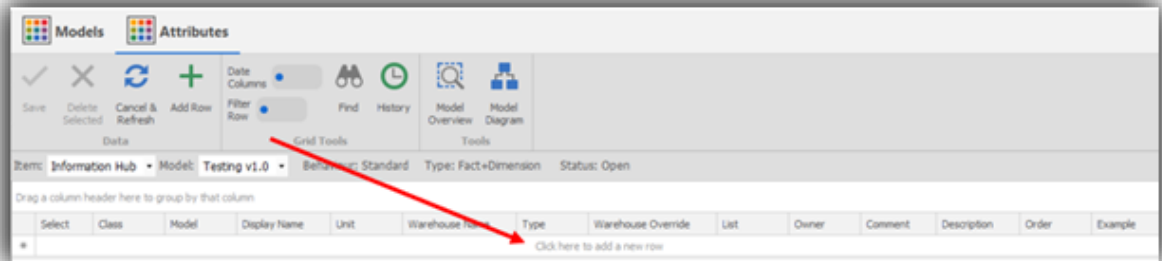
- ✓ Wait for the **Attributes**-view to load, and verify that the correct **Item** and **Model** is selected:

The screenshot displays the EI-CORE application interface. The top header shows "EI-CORE 2.03.28.00". A left sidebar contains navigation options: Home, Setup, Data Sources, Models, Exchange, Input, Information Hub (highlighted in blue), Output, and Translations. The main content area is titled "Attributes" and includes a toolbar with icons for Save, Delete Selected, Cancel & Refresh, and Add Row. Below the toolbar, the "Item" is set to "Information Hub" and the "Model" is set to "Testing v1.0". A table below shows columns for Select, Class, Model, Display Name, and Unit. Two red arrows point from the "Item" and "Model" dropdowns to the corresponding columns in the table header.

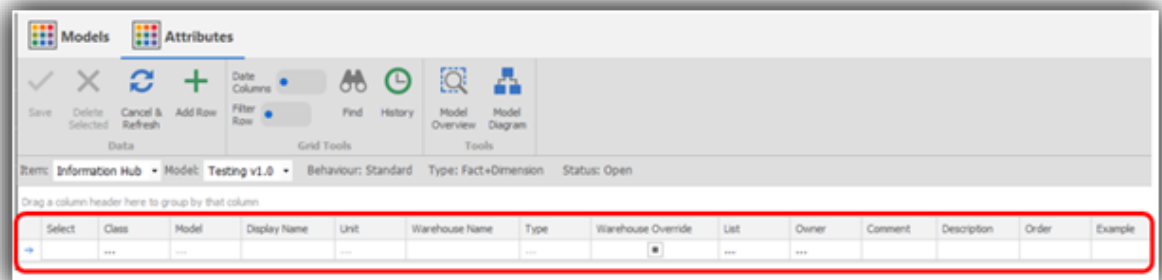
Select	Class	Model	Display Name	Unit	W
*					



- ✓ Locate the empty line at the top of the and click it once:

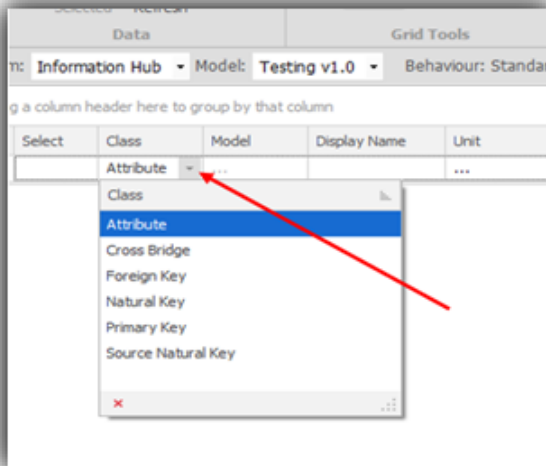


- ✓ The line now looks like this:

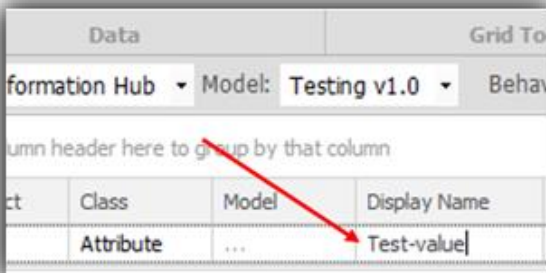




- ✓ Select **Attribute** from the **Class** drop-down menu:

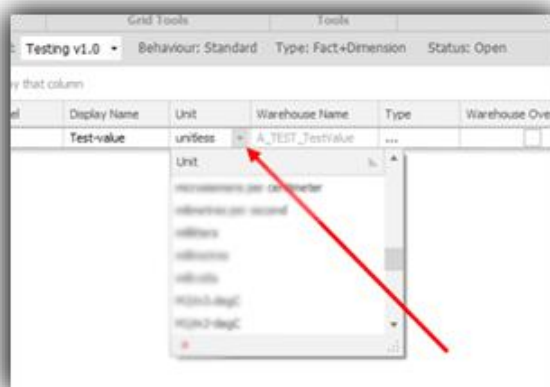


- ✓ Enter display-name in the **Display Name** field:

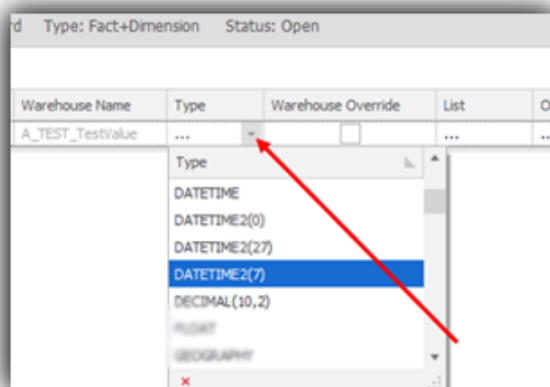




- ✓ Select unit from the **Unit drop-down menu** (to create a new unit, see “Creating new Units”-manual):

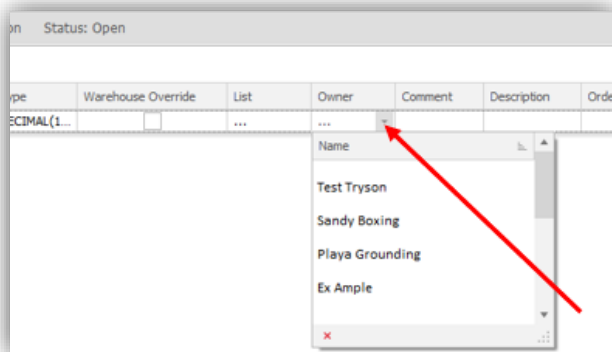


- ✓ Select database field type from the **Type drop-down menu**:

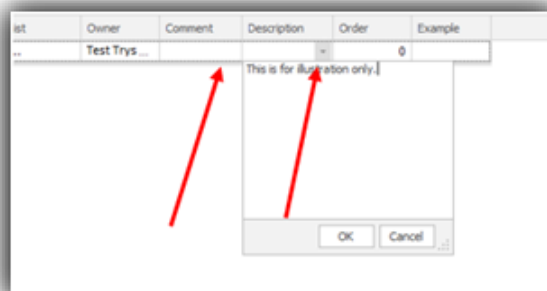




- ✓ Assign owner from the **Owner** drop-down menu:



- ✓ Enter **Comment** and **Description** in the optional drop-down menus:





- ✓ Click the **Add Row icon** to add the row to the model (clicking anywhere inside the grid will accomplish the same):

Models Attributes

Save Delete Selected Cancel & Refresh Add Row Filter Row Date Columns Find History Model Overview Model Diagram

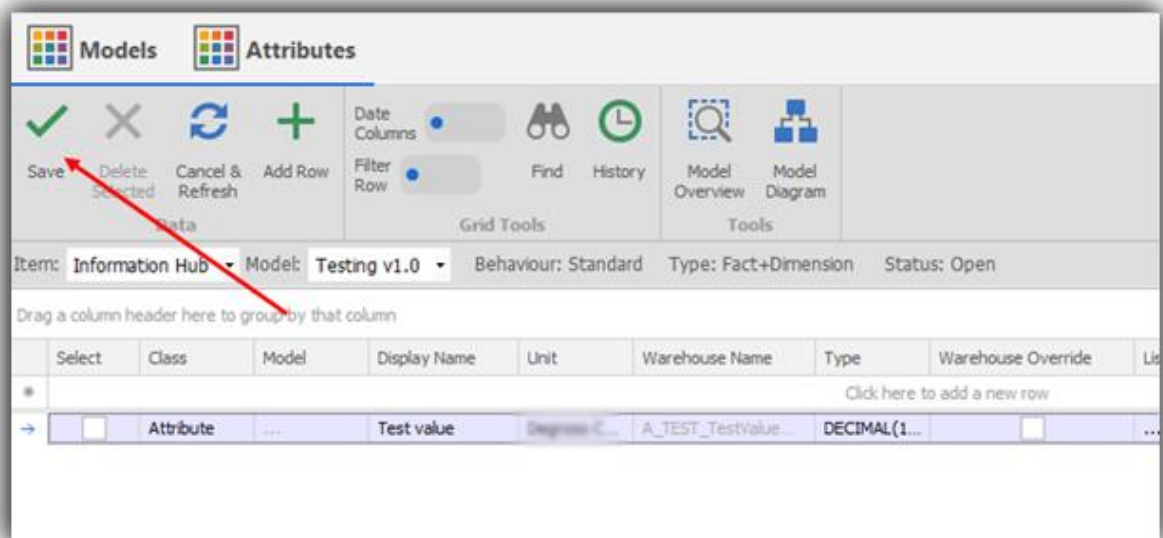
Item: Information Hub Model: Testing v1.0 Behaviour: Standard Type: Fact+Dimension Status: Open

Drag a column header here to group by that column

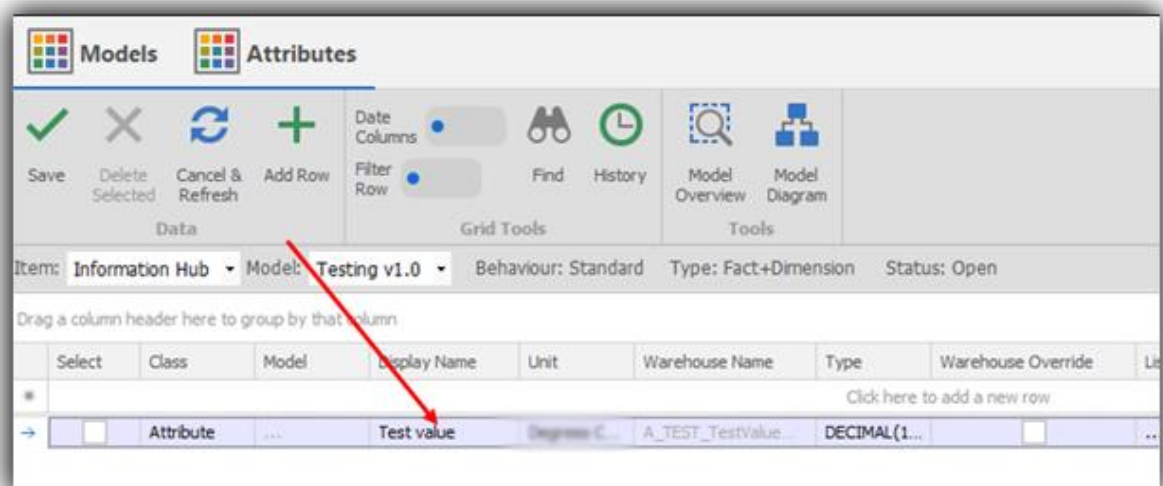
Select	Class	Model	Display Name	Unit	Warehouse Name	Type	Warehouse Override	List
*	Click here to add a new row							
→	Attribute	...	Test value	Degree C	A_TEST_TestValue	DECIMAL(1...		...



- ✓ Click the **Save** icon to save the model with the new attribute:



- ❖ Done, the model is saved with the new attribute:







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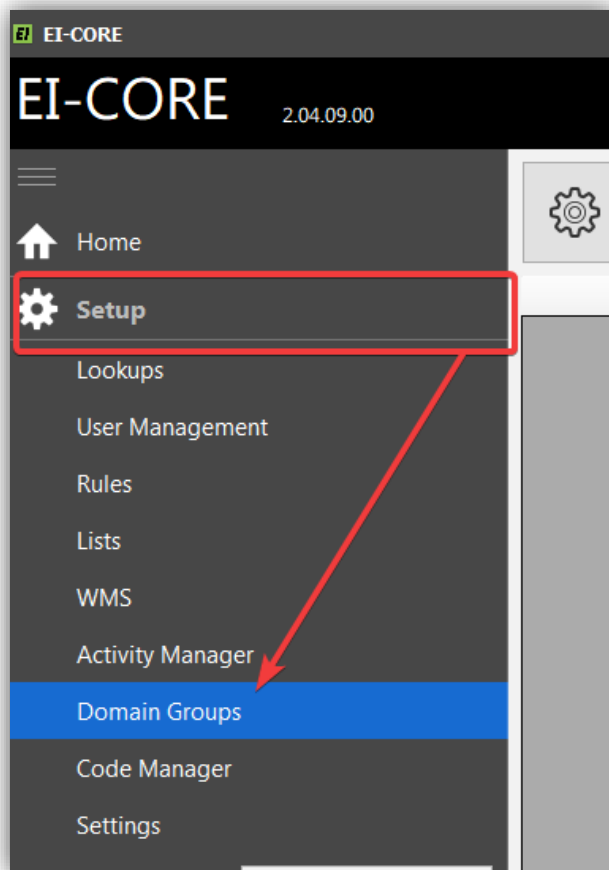
Assigning Members to Domain Groups

EI-CORE version number: 2.04.09.00

Document revision date: 2020-05-11

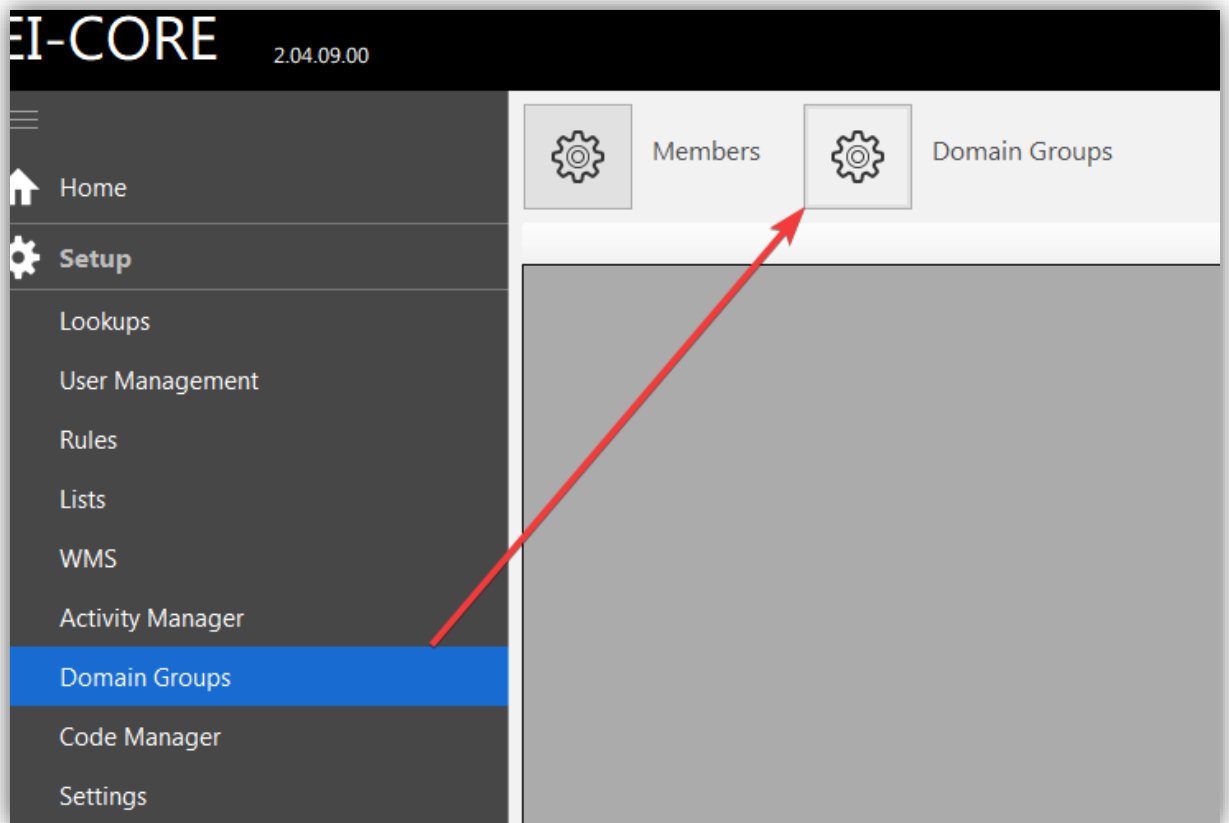


- ✓ Locate to the **Setup** menu from the start up screen, and select the **Domain Groups** sub-menu:





- ✓ From the **Domain Groups** window, click the **Domain Group** button:





✓ Select desired **Domain Group**:

Environmental Intelligence
makes knowledge matter...

Members Domain Groups

Delete	Add Row	Lead Member	Sublead Member	Name	Description	Abbr	Order
Delete	Add Row	Sandy Boxing	Playa Grounding	Ant control			1,00005
Delete	Add Row	Sandy Boxing	Playa Grounding	Castels			1,00002
Delete	Add Row	Sandy Boxing	Example Eight	Design			1,00002
Delete	Add Row	Notuse Danymore	Example Three	Dirt			1,00004
Delete	Add Row	Sandy Boxing	Example Three	Grains			1,00005
Delete	Add Row	Example Five	Sandy Boxing	Operations			1,00005
Delete	Add Row	Sandy Boxing	Notuse Danymore	Planning			1,00005
Delete	Add Row	Sandy Boxing	Exon Ample	Roads			1,00002
Delete	Add Row	Sandy Boxing	Example Nine	Shells			1,00003
Delete	Add Row	Notuse Danymore	Example Four	Shovels			1,00005
Delete	Add Row	Sandy Boxing	Example Two	Sieves			1,00005
Delete	Add Row	Example Ten	Grain Gravel	Tunneling			1,00001

Members

- Example Eight
- Example Five
- Example Four
- Example Nine
- Example One
- Example Seven
- Example Six
- Example Ten
- Example Three
- Example Two
- Exon Ample
- Grain Gravel
- Notuse Danymore
- Playa Grounding
- Sandy Boxing
- Test Tyson



✓ Select **Lead Member** from the drop-down menu:

	Delete	Add Row	Lead Member	Sublead Member	Name	Description	Abbr	Order
▶	Delete	Add Row	Example Eight	Playa Grounding	Ant control			1,00005
	Delete	Add Row	Example Eight	Castels				1,00002
	Delete	Add Row	Example Five	Example Eight	Design			1,00002
	Delete	Add Row	Example Four	Example Three	Dirt			1,00004
	Delete	Add Row	Example Nine	Example Three	Grains			1,00005
	Delete	Add Row	Example One	Sandy Boxing	Operations			1,00005
	Delete	Add Row	Example Seven	Notuse Danymore	Planning			1,00005
	Delete	Add Row	Example Six	Exon Ample	Roads			1,00002
	Delete	Add Row	Example Ten	Example Nine	Shells			1,00003
	Delete	Add Row	Example Three	Example Four	Shovels			1,00005
	Delete	Add Row	Example Two	Example Two	Sieves			1,00005
	Delete	Add Row	Exon Ample	Grain Gravel	Tunneling			1,00001
	Delete	Add Row	Grain Gravel					
	Delete	Add Row	Notuse Danymore					
	Delete	Add Row	Playa Grounding					
	Delete	Add Row	Sandy Boxing					
	Delete	Add Row	Test Tryson					



✓ Select **Sublead Member** from the drop-down menu:

The screenshot shows a software interface with two tabs: "Members" and "Domain Groups". The "Domain Groups" tab is active. Below the tabs is a table with the following columns: Delete, Add Row, Lead Member, Sublead Member, Name, Description, Abbr, and Order. The first row is highlighted in blue. A dropdown menu is open under the "Sublead Member" column for the first row, showing a list of options including "Example Eight", "Example Five", "Example Four", "Example Nine", "Example One", "Example Seven", "Example Six", "Example Ten", "Example Three", "Example Two", "Exon Ample", "Grain Gravel", "Notuse Danymore", "Playa Grounding", "Sandy Boxing", and "Test Tryson". A red arrow points to the "Sublead Member" column header.

	Delete	Add Row	Lead Member	Sublead Member	Name	Description	Abbr	Order
▶	Delete	Add Row	Example Eight	Example Eight	Ant control			1,00005
	Delete	Add Row	Sandy Boxing	Example Eight	Castels			1,00002
	Delete	Add Row	Sandy Boxing	Example Five	Design			1,00002
	Delete	Add Row	Notuse Danymore	Example Nine	Dirt			1,00004
	Delete	Add Row	Sandy Boxing	Example One	Grains			1,00005
	Delete	Add Row	Example Five	Example Seven	Operations			1,00005
	Delete	Add Row	Sandy Boxing	Example Six	Planning			1,00005
	Delete	Add Row	Sandy Boxing	Example Ten	Roads			1,00002
	Delete	Add Row	Sandy Boxing	Example Three	Shells			1,00003
	Delete	Add Row	Sandy Boxing	Example Two	Shovels			1,00005
	Delete	Add Row	Notuse Danymore	Exon Ample	Sieves			1,00005
	Delete	Add Row	Sandy Boxing	Grain Gravel	Tunneling			1,00001
	Delete	Add Row	Notuse Danymore	Playa Grounding				
	Delete	Add Row	Sandy Boxing	Sandy Boxing				
	Delete	Add Row	Example Ten	Test Tryson				



- ✓ Assign members to the group by checking the boxes at the appropriate name in the **Members** panel to the right:

The screenshot shows the 'Domain Groups' tab in the EI-CORE software. A table lists various domain groups with columns for actions, lead and sublead members, name, description, abbreviation, and order. To the right, a 'Members' panel lists individual members with checkboxes. Red arrows indicate the process of selecting members for a specific group.

	Delete	Add Row	Lead Member	Sublead Member	Name	Description	Abbr	Order
	Delete	Add Row	Playa Grounding	Notuse Danymore	Ant control			1,00005
	Delete	Add Row	Sandy Boxing	Playa Grounding	Castels			1,00002
	Delete	Add Row	Sandy Boxing	Example Eight	Design			1,00002
	Delete	Add Row	Notuse Danymore	Example Three	Dirt			1,00004
	Delete	Add Row	Sandy Boxing	Example Three	Grains			1,00005
	Delete	Add Row	Example Five	Sandy Boxing	Operations			1,00005
	Delete	Add Row	Sandy Boxing	Notuse Danymore	Planning			1,00005
	Delete	Add Row	Sandy Boxing	Exon Ample	Roads			1,00002
	Delete	Add Row	Sandy Boxing	Example Nine	Shells			1,00003
	Delete	Add Row	Notuse Danymore	Example Four	Shovels			1,00005
	Delete	Add Row	Sandy Boxing	Example Two	Sieves			1,00005
	Delete	Add Row	Example Ten	Grain Gravel	Tunneling			1,00001

Members panel (Members):

- Example Eight
- Example Five
- Example Four
- Example Nine
- Example One
- Example Seven
- Example Six
- Example Ten
- Example Two
- Example Three
- Exon Ample
- Grain Gravel
- Notuse Danymore
- Playa Grounding
- Sandy Boxing
- Test Tryson



✓ Click **SAVE** button in the bottom of the screen:

The screenshot shows a software interface with a table and a bottom navigation bar. The table has four columns: 'Delete', 'Add Row', 'Lead Member', and 'Sublead Member'. The first row is highlighted in blue. A red arrow points from the top right of the table area down to the 'SAVE' button at the bottom left. The 'SAVE' button is highlighted with a red box.

	Delete	Add Row	Lead Member	Sublead Member
▶	Delete	Add Row	Playa Grounding	Notuse Danymore
	Delete	Add Row	Sandy Boxing	Playa Grounding
	Delete	Add Row	Sandy Boxing	Example Eight
	Delete	Add Row	Notuse Danymore	Example Three
	Delete	Add Row	Sandy Boxing	Example Three
	Delete	Add Row	Example Five	Sandy Boxing
	Delete	Add Row	Sandy Boxing	Notuse Danymore
	Delete	Add Row	Sandy Boxing	Exon Ample
	Delete	Add Row	Sandy Boxing	Example Nine
	Delete	Add Row	Notuse Danymore	Example Four
	Delete	Add Row	Sandy Boxing	Example Two
	Delete	Add Row	Example Ten	Grain Gravel

SAVE REFRESH ADD ROW



❖ Done!

The group is now saved with its new members in EI-CORE.



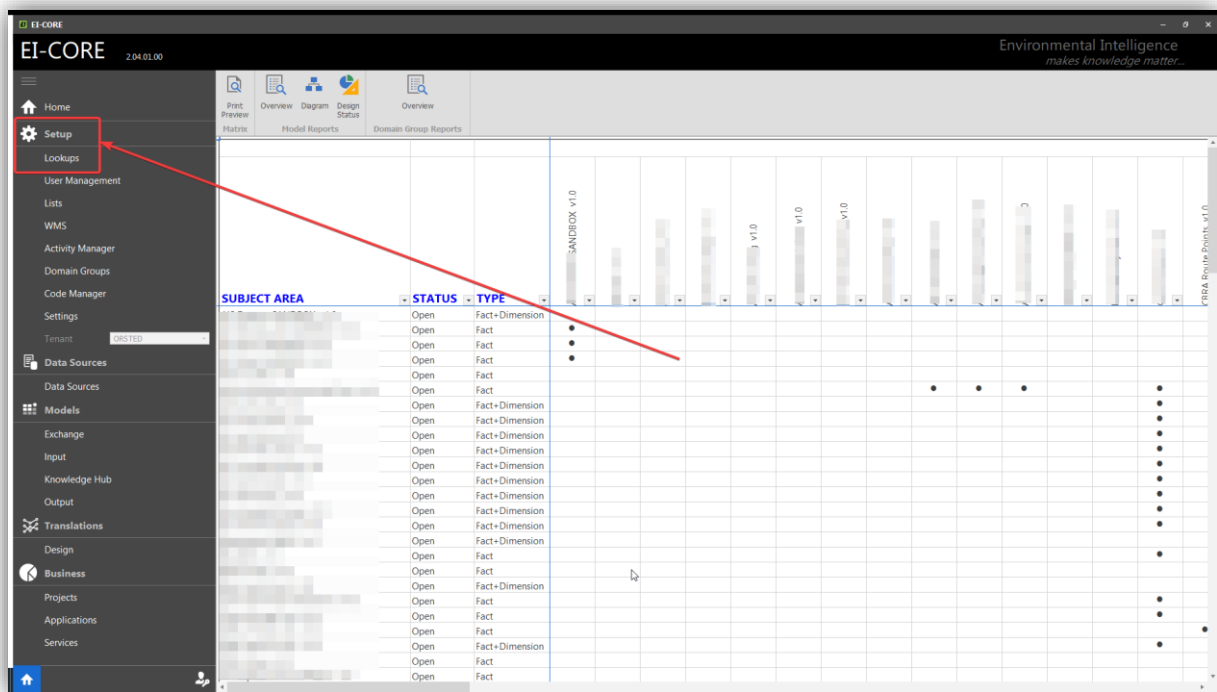
“Creating new Subject Model in EI-CORE”
Page **128** of **211**

Creating Units

EI-CORE version number: 2.04.01.00
Document revision date: 2020-05-11

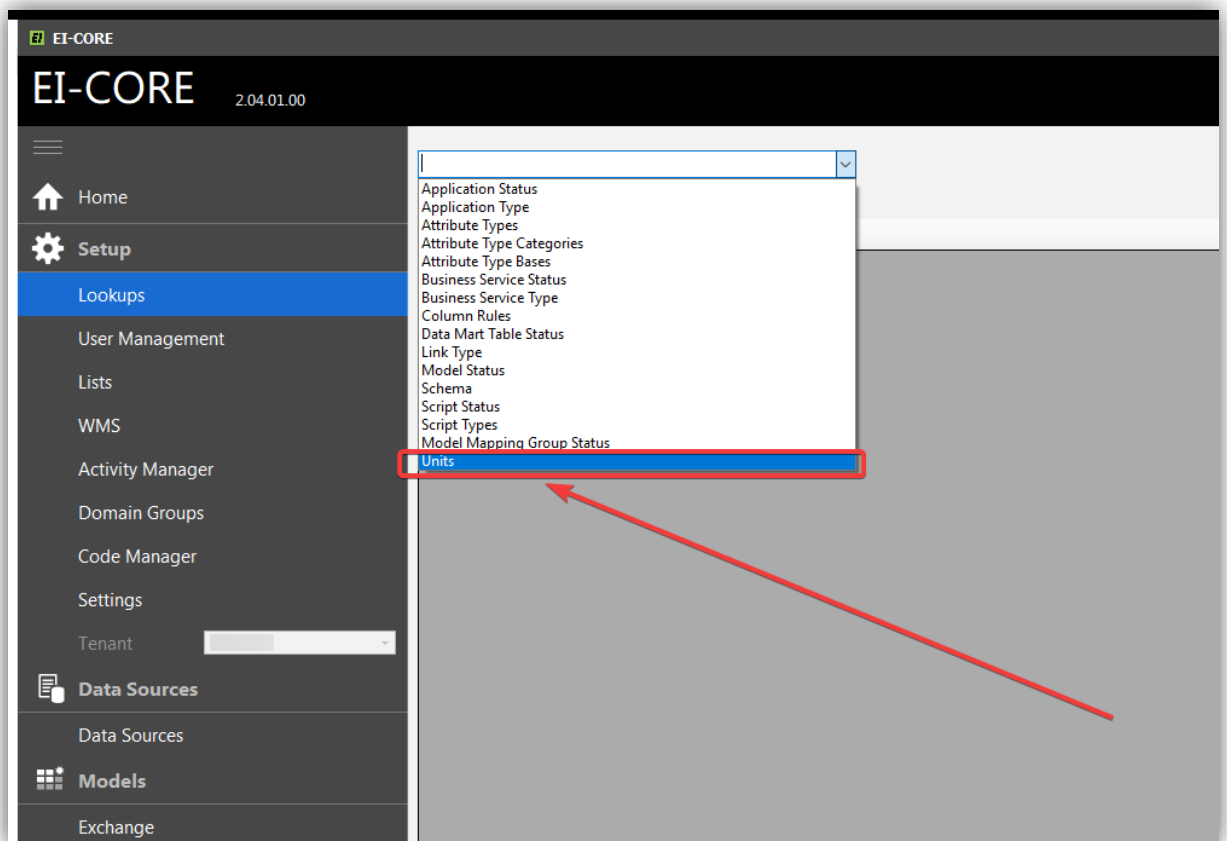


- ✓ Locate to the **Setup** menu from the start up screen, and select the **Lookups** sub-menu:





✓ From the **Lookups** menu, unfold the **drop-down menu** and select **Units**:





✓ Click the **ADD ROW** button in the bottom of the screen:



The screenshot displays the EI-CORE application interface. On the left is a dark sidebar with navigation options: Home, Setup, Lookups (highlighted), User Management, Lists, WMS, Activity Manager, Domain Groups, Code Manager, Settings, Tenant, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, Translations, Design, Business, Projects, Applications, and Services. The main area shows a table of units with columns for Delete, Add Row, Name, Abbr, Comment, and Order. A dropdown menu at the top is set to 'Units'. At the bottom, there are buttons for SAVE, REFRESH, and ADD ROW. A red arrow points from the 'ADD ROW' button in the bottom right to the 'Add Row' button in the table's first column.

Delete	Add Row	Name	Abbr	Comment	Order
Delete	Add Row				1,00012
Delete	Add Row				1,00017
Delete	Add Row				1,00013
Delete	Add Row				1,00012
Delete	Add Row				1,00014
Delete	Add Row				1,00014
Delete	Add Row				1,00013
Delete	Add Row				1,00001
Delete	Add Row				1,00014
Delete	Add Row				1,00015
Delete	Add Row				1,00011
Delete	Add Row				1,00018
Delete	Add Row				1,00007
Delete	Add Row				1,00014
Delete	Add Row				1,00014
Delete	Add Row				1,00014
Delete	Add Row				1,00015
Delete	Add Row				1,00013
Delete	Add Row				1,00013
Delete	Add Row				1,00015
Delete	Add Row				1,00014
Delete	Add Row				1,00013
Delete	Add Row				1,00016
Delete	Add Row				1,00010
Delete	Add Row				1,00018
Delete	Add Row				1,00019
Delete	Add Row				1,00017
Delete	Add Row				1,00017
Delete	Add Row				1,00016
Delete	Add Row				1,00002
Delete	Add Row				1,00020
Delete	Add Row				1,00020
Delete	Add Row				1,00017
Delete	Add Row				1,00017
Delete	Add Row				1,00004



- ✓ An empty line has now appeared in the top of the grid:

The screenshot shows the EI-CORE interface with the 'Lookups' section selected. A red arrow points to a new empty row at the top of the grid. The grid has columns: Delete, Add Row, Name, Abbr, Comment, Order. The new row has a blue selection bar and the value '1,00001' in the Order column.

- ✓ Enter values for the **Name** and **Abbreviation** for the new unit and provide an optional **Comment** if desired:

The screenshot shows the EI-CORE interface with the 'Lookups' section selected. A new unit has been added to the grid. Red arrows point to the 'Name', 'Abbr', and 'Comment' columns of the new row. The grid has columns: Delete, Add Row, Name, Abbr, Comment, Order. The new row has a blue selection bar and the values 'Grains of sand per sandbox', 'GoSpS', 'Testvalue', and '1,00001'.



✓ Click **SAVE** button in the bottom of the screen:



The screenshot displays the EI-CORE application interface. The top header shows "EI-CORE" and version "2.04.01.00". A sidebar menu on the left contains various navigation options: Home, Setup, Lookups (highlighted), User Management, Lists, WMS, Activity Manager, Domain Groups, Code Manager, Settings, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, Translations, Design, Business, Projects, Applications, and Services. A red arrow points from the "Lookups" menu item to the "SAVE" button at the bottom of the table.

The main content area shows a table titled "Units" with a dropdown menu. The table has columns for "Delete", "Add Row", "Name", "Abbr", "Comment", and "Order". The first row is highlighted in blue and contains the following data:

Delete	Add Row	Name	Abbr	Comment	Order
Delete	Add Row	Grains of sand per sandbox	GoSpS	Testvalue	1,00001
Delete	Add Row				1,00013
Delete	Add Row				1,00018
Delete	Add Row				1,00014
Delete	Add Row				1,00013
Delete	Add Row				1,00015
Delete	Add Row				1,00015
Delete	Add Row				1,00014
Delete	Add Row				1,00002
Delete	Add Row				1,00015
Delete	Add Row				1,00016
Delete	Add Row				1,00012
Delete	Add Row				1,00019
Delete	Add Row				1,00008
Delete	Add Row				1,00015
Delete	Add Row				1,00015
Delete	Add Row				1,00015
Delete	Add Row				1,00016
Delete	Add Row				1,00014
Delete	Add Row				1,00014
Delete	Add Row				1,00016
Delete	Add Row				1,00015
Delete	Add Row				1,00014
Delete	Add Row				1,00017
Delete	Add Row				1,00011
Delete	Add Row				1,00019
Delete	Add Row				1,00020
Delete	Add Row				1,00018
Delete	Add Row				1,00018
Delete	Add Row				1,00017
Delete	Add Row				1,00003
Delete	Add Row				1,00021
Delete	Add Row				1,00021
Delete	Add Row				1,00018
Delete	Add Row				1,00018

At the bottom of the table, there are three buttons: "SAVE", "REFRESH", and "ADD ROW". A red arrow points from the "Lookups" menu item in the sidebar to the "SAVE" button.



- ❖ Done!
The new unit is now saved in EI-CORE:

The screenshot shows the EI-CORE application interface. The top header displays 'EI-CORE' and the version '2.04.01.00'. A left-hand navigation menu includes 'Home', 'Setup', 'Lookups', 'User Management', 'Lists', 'WMS', 'Activity Manager', and 'Domain Groups'. The 'Lookups' menu item is highlighted in blue. A red arrow points from this menu item to a table of units. The table has columns for 'Delete', 'Add Row', 'Name', 'Abbr', 'Comment', and 'Order'. One row in the table is highlighted with a red box, and its 'Name' column contains the text 'Grains of sand per sandbox'. The 'Comment' column for this row contains 'Testvalue' and the 'Order' column contains '1,00001'.

Delete	Add Row	Name	Abbr	Comment	Order
Delete	Add Row				1,00013
Delete	Add Row				1,00018
Delete	Add Row				1,00014
Delete	Add Row				1,00013
Delete	Add Row				1,00015
Delete	Add Row				1,00015
Delete	Add Row	Grains of sand per sandbox		Testvalue	1,00001
Delete	Add Row				1,00014
Delete	Add Row				1,00002



“Creating new Subject Model in EI-CORE”
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Creating New Rule Sets

EI-CORE version number: 2.04.56.00
Document revision date: 2020-05-11



- ✓ Locate to the **Rules** sub-menu from the **Setup** menu, and select the **Rules Sets** icon:

The screenshot shows the EI-CORE application interface. The top header displays "EI-CORE 2.04.56.00". On the left, a dark sidebar menu contains the following items: Home, Setup, Lookups, User Management, Rules (highlighted with a red box), Lists, WMS, Activity Manager, and Domain Groups. A red arrow points from the "Rules" menu item to the "Rule Sets" icon in the main content area. The main content area has a light gray background and contains two tabs: "Rule Sets" (active) and "Rule Templates". Below the tabs is a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. Below the toolbar is a data grid with the following columns: Select, Name, Status, Abbr, Description, Target, Comment, Order, and Sub Version. The grid is currently empty, with a single row containing an asterisk and the text "Click here to add a new row".



- ✓ Click the blank row at the top of the grid:

The screenshot shows the EI-CORE application interface. The left sidebar contains navigation options: Home, Setup, Lookups, User Management, Rules (highlighted), Lists, WMS, Activity Manager, and Domain Groups. The main area displays the 'Rule Sets' tab with a toolbar containing icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. Below the toolbar is a grid with columns: Select, Name, Status, Abbr, Description, Target, Comment, Order, and Sub Version. A red arrow points to a blank row in the grid, and a red box highlights the row header area.

- ✓ In the new row, fill in values for **Name**, **Abbreviation**, and **Description**:

The screenshot shows the EI-CORE application interface with the 'Rule Sets' tab. The toolbar and grid are visible. A new row has been added to the grid with the following values: Name: Rule Set 1, Status: Open, Abbr: RS1, Description: Used for test, Target: ..., Comment: , Order: 0, Sub Version: 0. Red arrows point to the 'Name', 'Abbr', and 'Description' columns of this row.

Select	Name	Status	Abbr	Descri...	Target	Comment	Order	Sub Version
	Rule Set 1	Open	RS1	Used for test	...		0	0



- ✓ Select the desired Target from the **Target** drop-down menu:

Drag a column header here to group by that column

Select	Name	Status	Abbr	Descri...	Target	Comment	Order	Sub Version
<input type="checkbox"/>	Rule Set 1	Open	RS1	Used for test	...		0	0

Target

- Test Schema

- ✓ Click **Add Row**-button in the top of the screen:

Save Delete Selected Cancel & Refresh Add Row Grid Find Column Filter Last Modified Change History

Drag a column header here to group by that column

Select	Name	Status	Abbr	Descri...	Target	Comment	Order	Sub Version
*	Click here to add a new row							
<input type="checkbox"/>	Rule Set 1	Open	RS1	Used for test	Lists (List)	Used for test	0	0



- ✓ Click **Save button** in the top of the screen:

Drag a column header here to group by that column

Select	Name	Status	Abbr	Descri... ≡	Target	Comment	Order	Sub Version	
*	Click here to add a new row								
→	<input type="checkbox"/>	Rule Set 1	Open	RS1	Used for test	Used for test	0	0	

- ❖ Done!
The new Rule Set is now saved in EI-CORE



“Creating new Subject Model in EI-CORE”
Page **142** of **211**

Creating Rule templates

EI-CORE version number: 2.04.12.00
Document revision date: 2020-05-11



- ✓ Locate to the **Setup** menu from the start up screen, and select the **Rules** sub-menu:

The screenshot shows the EI-CORE application interface. The top bar displays "EI-CORE" and the version "2.04.12.00". The left sidebar contains a menu with the following items: Home, Setup (highlighted with a red box), Lookups, User Management, Rules (highlighted with a blue bar and a red arrow pointing to it), Lists, WMS, Activity Manager, Domain Groups, and Code Manager. The main content area is titled "Rule Sets" and "Rule Templates". It features a toolbar with icons for Save, Delete Selected, Cancel & Refresh, and Add Row. Below the toolbar is a table with columns: Select, Name, Status, Abbr, and Description. The table contains two rows: "Rule Set 1" with status "Open" and abbreviation "RS1", and "Rule Set 2" with status "Open" and abbreviation "RS2".

Select	Name	Status	Abbr	Description
<input type="checkbox"/>	Rule Set 1	Open	RS1	
<input type="checkbox"/>	Rule Set 2	Open	RS2	



- ✓ In the **Rule** field, enter an unambiguous rule:

The screenshot shows a software interface with a table. The table has columns for 'Select', 'Rule', 'Type', 'Abbr', and 'Comment'. The 'Rule' column contains the text 'Value > X'. A red arrow points to the 'Rule' field. The interface also includes a toolbar with icons for 'Save', 'Delete Selected', 'Cancel & Refresh', and 'Add Row', and a 'Grid Tools' section with 'Date Columns', 'Filter Row', 'Find', and 'History' options.

Select	Rule	Type	Abbr	Comment
	Value > X	...		



- ✓ Enter **Abbreviation** and **Comment** if desired

Rule Sets Rule Templates

Save Delete Selected Cancel & Refresh Add Row

Date Columns Filter Row

Find History

Drag a column header here to group by that column

Select	Rule	Type	Abbr	Comment
	Value > X	Input Needed	TST	Test value

- ✓ Enter a **Description** of the value:

Rule Sets Rule Templates

Save Delete Selected Cancel & Refresh Add Row

Date Columns Filter Row

Find History

Drag a column header here to group by that column

Select	Rule	Type	Abbr	Comment	Description
	Value > X	Input Needed	TST	Test value	Value must be greater than X



- ✓ If rule type requires input, enter Prompt text in the **Prompt field**. Grant an **Example** where applicable or leave Example field blank :

The screenshot shows the 'Rule Templates' interface. At the top, there are tabs for 'Rule Sets' and 'Rule Templates'. Below the tabs is a toolbar with icons for 'Save', 'Delete Selected', 'Cancel & Refresh', and 'Add Row'. There are also 'Grid Tools' for 'Date Columns', 'Filter Row', 'Find', and 'History'. Below the toolbar is a grid with the following columns: Select, Rule, Type, Abbr, Comment, Description, Prompt, Example, and Order. A single rule is listed in the grid:

Select	Rule	Type	Abbr	Comment	Description	Prompt	Example	Order
<input type="checkbox"/>	Value > X	Input Needed	TST	Test value	Value must be greater than X	Enter value for X		0

- ✓ Click **Add Row**-button in the top of the screen. The rule will appear in the bottom of the screen:

The screenshot shows the 'Rule Templates' interface with the 'Add Row' button highlighted in blue. A red arrow points from the 'Add Row' button to the bottom of the table, where a new rule entry is visible:

Select	Rule	Type	Abbr	Comment	Description	Prompt	Example	Order
<input type="checkbox"/>	Value > X	Input Needed	TST	Test value	Value must be greater than X	Enter value for X		0



- ✓ Click **Save button** in the top of the screen. The new value will be placed in alphabetical in the grid:

The screenshot shows the 'Rule Templates' section of the EI-CORE interface. The top toolbar includes buttons for 'Save', 'Delete Selected', 'Cancel & Refresh', and 'Add Row', along with 'Date Columns', 'Filter Row', 'Find', and 'History' options. Below the toolbar is a grid of rule templates. The grid has columns for 'Select', 'Rule', 'Type', 'Abbr', 'Comment', 'Description', 'Prompt', 'Example', and 'Order'. A red arrow points from the 'Save' button to the 'Value > X' rule entry, which is highlighted with a red box. The 'Value > X' rule has a type of 'Input Needed', an abbreviation of 'TST', a comment of 'Test value', a description of 'Value must be greater than X', a prompt of 'Enter value for X', and an order of '0,00000'.

Select	Rule	Type	Abbr	Comment	Description	Prompt	Example	Order
<input type="checkbox"/>		Input Needed						1,00004
<input type="checkbox"/>		Input Needed						1,00004
<input type="checkbox"/>		Choose From List						1,00006
<input type="checkbox"/>		Manual List						1,00002
<input type="checkbox"/>		Input Needed						1,00004
<input type="checkbox"/>		Input Needed						1,00004
<input type="checkbox"/>		Input Needed						1,00005
<input type="checkbox"/>	Value > X	Input Needed	TST	Test value	Value must be greater than X	Enter value for X		0,00000
<input type="checkbox"/>		No Input Needed						1,00004
<input type="checkbox"/>		Input Needed						1,00004
<input type="checkbox"/>		No Input Needed						1,00004
<input type="checkbox"/>		No Input Needed						1,00003

- ❖ Done!
The new rule is now saved in EI-CORE



"Creating new Subject Model in EI-CORE"
Page **150** of **211**

Creating Parent Rule

EI-CORE version number: 2.04.56.00
Document revision date: 2020-05-11



- ✓ Locate to the **Rules** sub-menu from the **Setup** menu, and select the **Rules Templates** icon:

The screenshot displays the EI-CORE application interface. The top header shows "EI-CORE 2.04.56.00". On the left, a navigation menu is visible with options: Home, Setup, Lookups, User Management, Rules, and Lists. The "Rules" option is highlighted with a red box. A red arrow points from the "Rules" option to the "Rule Templates" icon in the top right corner of the application. Below the navigation menu, a toolbar contains various icons for data management: Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. Below the toolbar, a grid is visible with columns: Select, Rule, Type, Context, Comment, and Description. A red arrow also points from the "Rule Templates" icon to the "Rule Templates" tab in the grid's header.



- ✓ Click the blank row at the top of the grid:

The screenshot shows the EI-CORE application interface. On the left is a navigation menu with options: Home, Setup, Lookups, User Management, Rules (highlighted in blue), and Lists. The main area displays 'Rule Sets' and 'Rule Templates' tabs. Below the tabs is a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. A grid is visible below the toolbar, with a red arrow pointing to the first blank row. The grid headers are: Select, Rule, Type, Context, Comment, and Description. The first row contains an asterisk (*) in the 'Rule' column and a link 'Click here to add a' in the 'Description' column.

- ✓ In the new row, name the rule “Parent” or similar description in the **Rule** field:

This is a close-up view of the grid from the previous screenshot. The 'Rule' column in the first row is highlighted with a red box and contains the text 'Parent'. The other columns in the first row are empty or contain ellipses (...). The grid headers are: Select, Rule, Type, Context, Comment, and Description.



- ✓ From the **Type** drop-down menu, select “**Choose From Schema**”:

The screenshot shows a software interface with a table. The table has columns: Select, Rule, Type, Context, Comment, and De. The 'Parent' row is selected. The 'Type' dropdown menu is open, showing options: Type, Choose From List, Choose From Schema (highlighted), Input Needed, Manual List, No Input Needed, and Text with Expression Input Needed. A red arrow points to the dropdown arrow in the 'Type' column.

Select	Rule	Type	Context	Comment	De
<input type="checkbox"/>	Parent	...	...
<input type="checkbox"/>	Decimal Points $\leq X$	Type			Va
<input type="checkbox"/>	Decimal Points $\geq X$	Choose From List			Va
<input type="checkbox"/>	List	Choose From Schema			Va
<input type="checkbox"/>	Value $< X$	Input Needed			Va
<input type="checkbox"/>	Value $\leq X$	Manual List			Va
<input type="checkbox"/>	Value $> X$	No Input Needed			Va
<input type="checkbox"/>	Value ≥ 0	Text with Expression Input Needed			Va
<input type="checkbox"/>	Value $\geq X$				Va
<input type="checkbox"/>	Value must be unique				Al



- ✓ Select “**Attribute**” from the **Context** drop-down menu:

Select	Rule	Type	Context	Comment	Description
	Parent	Choose From S...	...		
<input type="checkbox"/>	Decimal Points <= X	Input Needed	Context		ould hav
<input type="checkbox"/>	Decimal Points >= X	Input Needed	All Contexts		ould hav
<input type="checkbox"/>	List	Choose From List	Attribute		st exist
<input type="checkbox"/>	Value < X	Input Needed	Schema		ust be le
<input type="checkbox"/>	Value <= X	Input Needed			ust be le
<input type="checkbox"/>	Value > X	Input Needed			ust be gr
<input type="checkbox"/>	Value >= 0	No Input Needed			ust be gr
<input type="checkbox"/>	Value >= X	Input Needed			ust be gr
<input type="checkbox"/>	Value must be unique	No Input Needed			s under t
<input type="checkbox"/>	Value must be Y or N	No Input Needed	Attribute		value must be ei
<input type="checkbox"/>	Value must not be null	No Input Needed	Attribute		Value must not b

- ✓ Click **Save button** in the top of the screen:

Save Delete Selected Cancel & Refresh Add Row Grid Find Column Filter Last Modified Change History

Drag a column header here to group by that column

Select	Name	Status	Abbr	Descri...	Target	Comment	Order	Sub Version
* →	Rule Set 1	Open	RS1	Used for test		Used for test	0	0



- ✓ Enter **Description** in **Description** field:

Grid Tools		Tools		
Type	Context	Comment	Description	Pro
Choose From S...	Attribute		Value must exist in parent table	
Input Needed	Attribute		Value should have X decimal points or less	Ent

- ✓ Click **Add Row** button above the grid:

Rule Sets Rule Templates

Save Delete Selected Cancel & Refresh **Add Row** Grid Find Column Filter Last Modified Change History

Grid Tools Tools

Drag a column header here to group by that column

Select	Rule	Type	Context	Comment	Description
*					Click here to add a new row



✓ Click **Save** button:

The screenshot shows a software interface with a toolbar. The toolbar is divided into two sections: "Rule Sets" and "Rule Templates". The "Rule Sets" section contains a "Save" button (a green checkmark icon) which is highlighted with a red box, a "Delete Selected" button (an 'X' icon), and a "Cancel & Refresh" button (a circular refresh icon). The "Rule Templates" section contains an "Add Row" button (a green plus icon), a "Grid Find" button (a magnifying glass icon), a "Column Filter" button (a grid icon with a magnifying glass), a "Last Modified" button (a clock icon), and a "Change History" button (a circular arrow icon). Below the toolbar, there is a text prompt: "Drag a column header here to group by that column". At the bottom, there is a table with the following columns: "Select", "Rule", "Type", "Context", "Comment", and "Description".

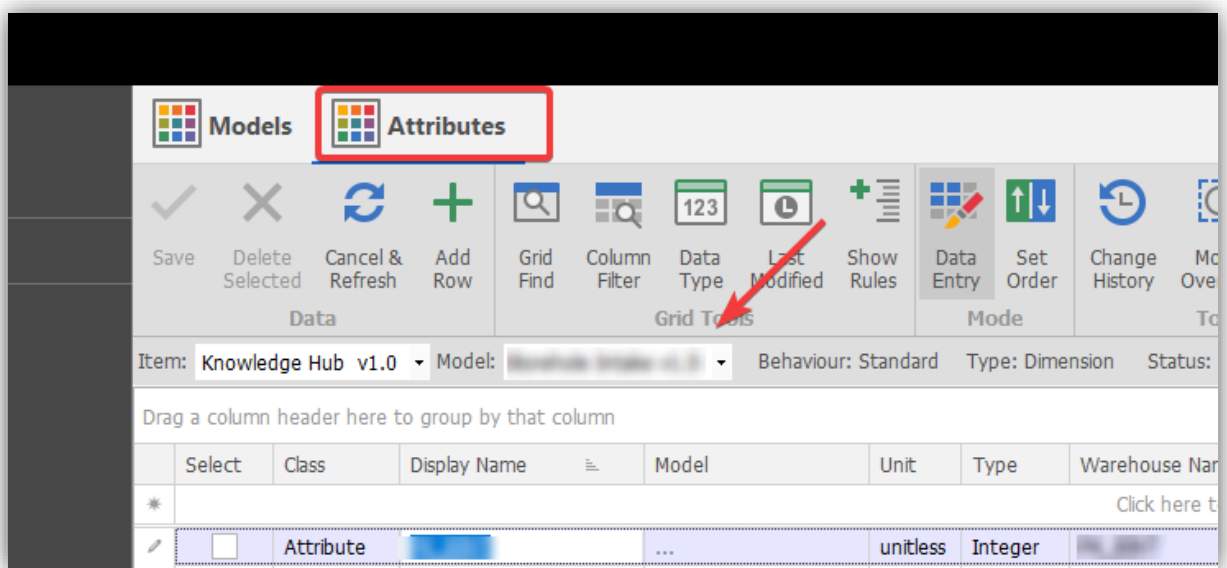
Select	Rule	Type	Context	Comment	Description
--------	------	------	---------	---------	-------------



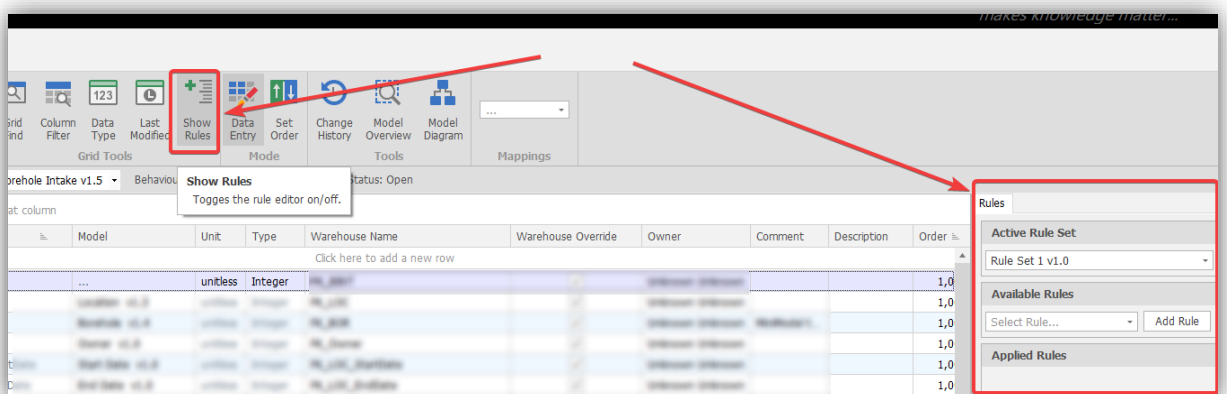
✓ Select relevant **Model:**



- ✓ Click **Attributes** button (make sure the correct model is displayed in the **Models** drop-down menu:



- ✓ Click the **Show Rules** button. Notice the **Rules** tab to the right:





- ✓ Make sure to highlight the relevant attribute in the grid and select desired **Rule Set** from the drop-down menu:

Owner	Comment	Description	Order
Unknown Unknown			1,0
Unknown Unknown			1,0
Unknown Unknown	MiniModel t...		1,0
Unknown Unknown			1,0
Unknown Unknown			1,0

Rules

Active Rule Set

Rule Set 1 v1.0

Rule Set	Status
Rule Set 1 v1.0	Open
Rule Set 2 v1.0	Open

Add Rule



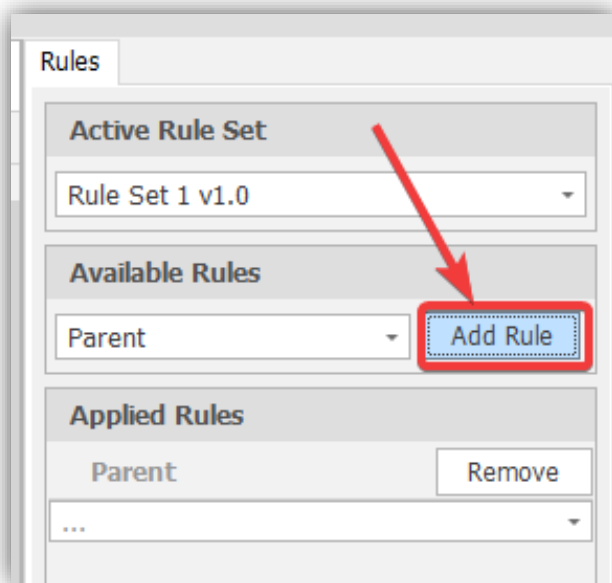
- ✓ Select the rule created in the earlier in this guide:

The screenshot shows a software interface with a table of rules and a dropdown menu. A red arrow points from the 'Parent' rule in the table to the 'Select Rule...' dropdown menu. The 'Parent' rule is highlighted with a red box.

Rule	Description
Decimal Points \leq X	Value should have X decimal points or less
Decimal Points \geq X	Value should have X decimal points or more
List	Value must exist in List
Parent	Value must exist in parent table
Value $<$ X	Value must be less than
Value \leq X	Value must be less than or equal to
Value $>$ X	Value must be greater than
Value \geq 0	Value must be greater than or equal to ZERO
Value \geq X	Value must be greater than or equal to
Value must be unique	All values under this heading must be unique
Value must be Y or N	Value must be either 'Y' or 'N'
Value must not be null	Value must not be null



✓ Click **Add Rule** button





- ✓ Select desired Attribute from Parent table:

The screenshot shows a software interface with a 'Rules' panel on the right and a 'DISPLAY' list on the left. The 'Rules' panel has three sections: 'Active Rule Set' with a dropdown menu showing 'Rule Set 1 v1.0'; 'Available Rules' with a dropdown menu showing 'Parent' and an 'Add Rule' button; and 'Applied Rules' with a dropdown menu showing 'Parent' and a 'Remove' button. The 'DISPLAY' list shows a table of items with a red box around one of the items.

Description	Order
	1,0
	1,0
t...	1,0
	1,0
	1,0
	1,0
	1,0
	1,0

Rules

Active Rule Set

Rule Set 1 v1.0

Available Rules

Parent Add Rule

Applied Rules

Parent Remove

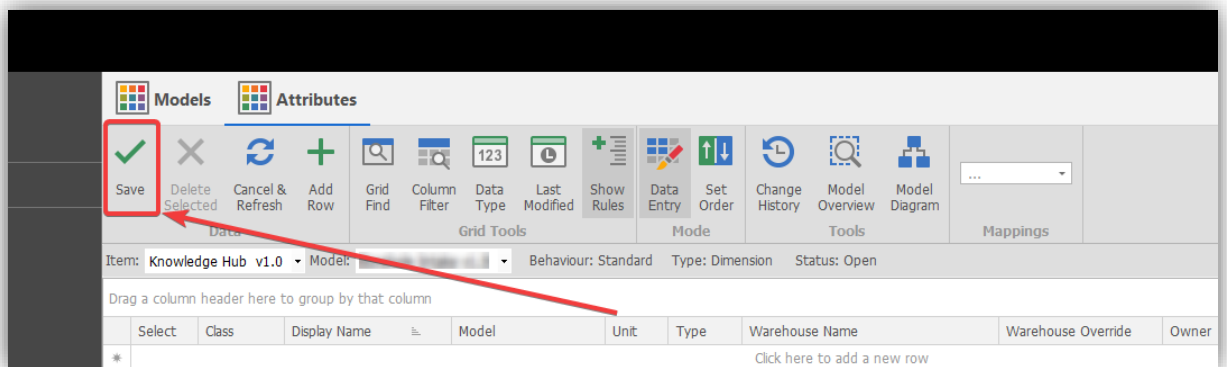
DISPLAY

...

Intake BUTTU... 1,0



✓ Click **Save** button:



❖ Done!
The Parent Rule is now saved in EI-CORE



"Creating new Subject Model in EI-CORE"
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Adding WMS Layers

EI-CORE version number: 2.04.25.00

Document revision date: 2020-05-11



- ✓ Select **WMS** sub menu from the **Setup** menu:

The screenshot shows the 'Setup' menu on the left side of the application interface. The 'WMS' option is highlighted with a red box and a red arrow pointing to it. The main content area on the right shows a table with columns for 'SUBJECT AREA', 'STATUS', and 'TYPE'. The 'WMS' option is the first item in the Setup menu, followed by Lookups, User Management, Rules, Lists, Activity Manager, and Domain Groups.

- ✓ Click the **WMS items** button in the top menu:

The screenshot shows the 'WMS Items' table in the application. The 'WMS Items' button in the top menu is highlighted with a red box and a red arrow pointing to it. The table has columns for 'Delete', 'Add Row', 'Owner', 'Name', 'Title', 'Description', 'Comment', 'Active', 'zIndex', 'Transparency', and 'URL'. The table contains five rows of data, each representing a different WMS item.

Delete	Add Row	Owner	Name	Title	Description	Comment	Active	zIndex	Transparency	URL
Delete	Add Row	-	bynavne	Bynavne			<input checked="" type="checkbox"/>	400	0	https://services.kort
Delete	Add Row	-	DIGE	Dige			<input checked="" type="checkbox"/>	400	0	https://services.kort
Delete	Add Row	-	kommunegraense	Kommunegraense			<input checked="" type="checkbox"/>	400	0	https://services.kort
Delete	Add Row	-	matrikelskel	Matrikelskel			<input checked="" type="checkbox"/>	400	0	https://services.kort
Delete	Add Row	-	VEJ MIDTE	Vejmidte			<input checked="" type="checkbox"/>	400	0	https://services.kort



- ✓ Click **ADD ROW** button in the bottom of the screen, a new editable row will appear in the top of the grid:



The screenshot shows a software interface with a navigation bar at the top containing 'Groups' and 'WMS Items' (the latter is selected). Below the navigation bar, the current group is 'Onshore WMS Test'. A table with the following columns is displayed: Delete, Add Row, Owner, Name, Title, Description, Comment, and Active. The first row of the table is highlighted in blue and has a red box around its 'Delete' and 'Add Row' columns. A red arrow points from the 'ADD ROW' button at the bottom of the interface to the 'ADD ROW' column of this first row. Another red arrow points from the 'ADD ROW' column of the second row to the 'Description' column of the same row. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW' (which is highlighted with a red box). The status bar at the very bottom shows 'Ready'.

Delete	Add Row	Owner	Name	Title	Description	Comment	Active
Delete	Add Row						<input checked="" type="checkbox"/>
Delete	Add Row		bynavne	Bynavne			<input checked="" type="checkbox"/>
Delete	Add Row		DIGE	Dige			<input checked="" type="checkbox"/>
Delete	Add Row		kommunegraense	Kommunegraense			<input checked="" type="checkbox"/>
Delete	Add Row		matrikelskel	Matrikelskel			<input checked="" type="checkbox"/>
Delete	Add Row		VEJMIDTE	Vejmidte			<input checked="" type="checkbox"/>

SAVE REFRESH **ADD ROW**

Ready



- ✓ Select desired **WMS Source** from the **WMS Tools** menu and click **Add WMS Layer**:

The screenshot displays a software interface with a table of WMS layers and a 'WMS Tools' panel. The table has columns for 'Comment', 'Active', 'zIndex', 'Transparency', 'URL', and 'Order'. The 'WMS Tools' panel includes a tab labeled 'WMS Tools' and a sub-panel titled 'Add WMS Layer'. This sub-panel contains a 'WMS Source:' dropdown menu and an 'Add WMS Layer' button. A red arrow points from the 'Add WMS Layer' button to the 'WMS Source:' dropdown menu.

Comment	Active	zIndex	Transparency	URL	Order
	<input checked="" type="checkbox"/>	400	0		1,00001
	<input checked="" type="checkbox"/>	400	0		1,00002
	<input checked="" type="checkbox"/>	400	0		1,00005
	<input checked="" type="checkbox"/>	400	0		1,00003
	<input checked="" type="checkbox"/>	400	0		1,00004
st	<input checked="" type="checkbox"/>	400	0		1,00005



- ✓ Select desired layer and click **Add WMS Item** button:



The screenshot displays a GIS application interface. On the left, a 'Layer Title' list contains various layers, with 'Broenddaeksel' highlighted and enclosed in a red box. Below this is a 'Properties' panel for the selected layer, showing fields for Name (BROENDDAEKSEL), Title (Broenddaeksel), zIndex (400), and a transparency slider. At the bottom left, an 'Add WMS' section features a red-bordered button labeled 'Add WMS Item'. On the right, a map shows the North Sea (Nordsøen) and the Netherlands (NEDERLANDENE), with major cities like Amsterdam and Haarlem visible. A red arrow points from the 'Add WMS Item' button to the map area.



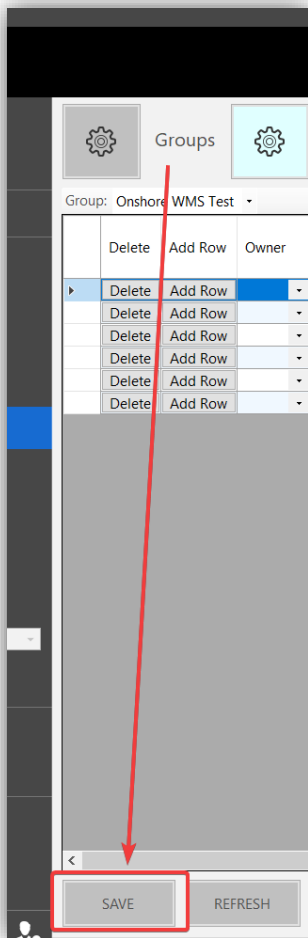
✓ The new layer now appears in the WMS grid:

The screenshot shows a software interface with a 'WMS Items' tab. Below the tab is a table with columns: Delete, Add Row, Owner, Name, Title, Description, Comment, Active, zindex, Transparency, URL, and Order. The first row is highlighted in blue and has a red box around it. The data in this row is: Delete (with a right-pointing arrow), Add Row, a dropdown menu, 'BROENDDAEKSSEL', 'Broenddaeksel', an empty field, an empty field, a checked checkbox, 400, 0, 'https://services.kortforsyningen.d...', and 1,00001. Below this row are three more rows with similar structure but different data.

Delete	Add Row	Owner	Name	Title	Description	Comment	Active	zindex	Transparency	URL	Order
▶ Delete	Add Row	▼	BROENDDAEKSSEL	Broenddaeksel			<input checked="" type="checkbox"/>	400	0	https://services.kortforsyningen.d...	1,00001
Delete	Add Row	▼	DIGE	Dige			<input checked="" type="checkbox"/>	400	0	https://services.kortforsyningen.d...	1,00002
Delete	Add Row	▼	kommunegraense	Kommunegraense			<input checked="" type="checkbox"/>	400	0	https://services.kortforsyningen.d...	1,00003
Delete	Add Row	▼	matrikelskel	Matrikelskel			<input checked="" type="checkbox"/>	400	0	https://services.kortforsyningen.d...	1,00004



- ✓ Click **SAVE** button in the bottom of the screen:



- ❖ The new WMS layer is now saved in EI-CORE

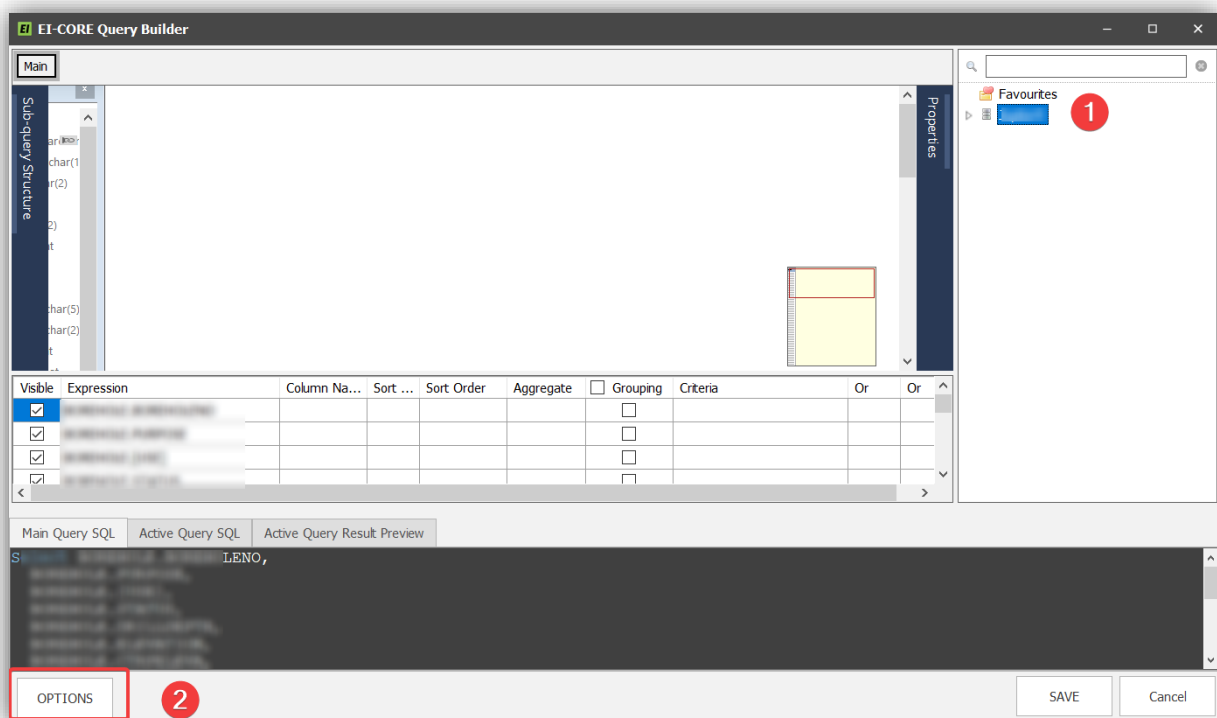


Adding additional Databases from Query Builder

EI-CORE version number: 2.05.00.00

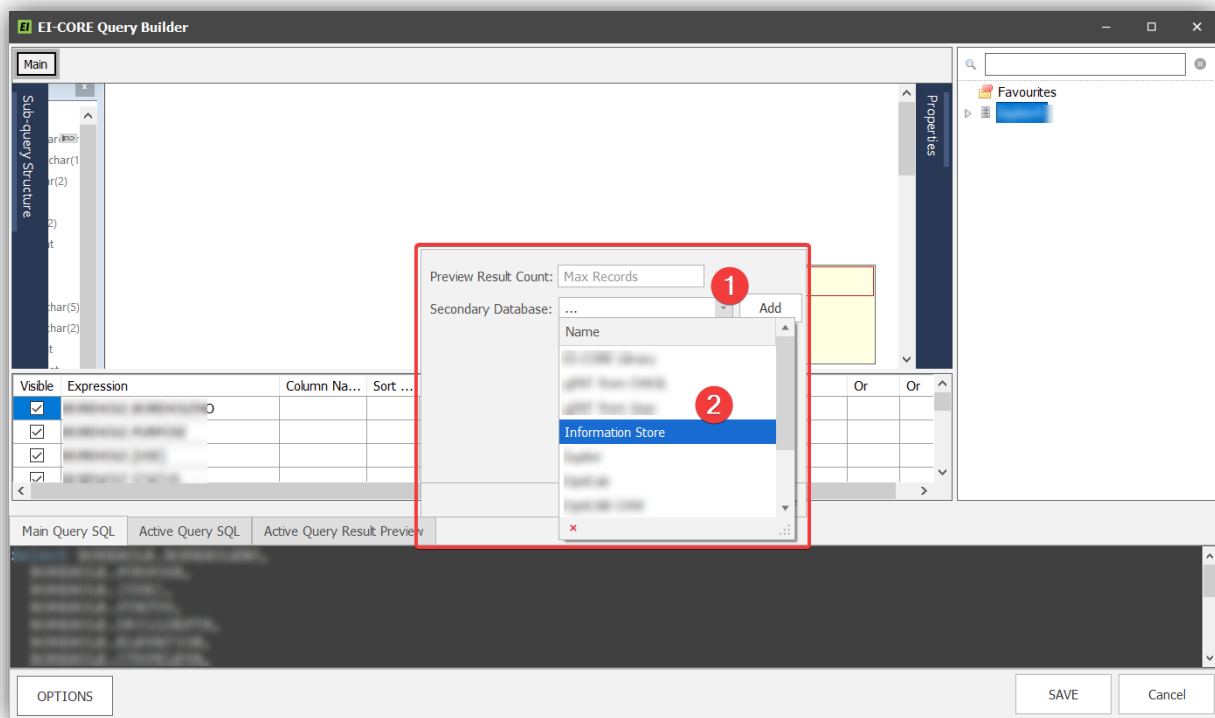
Document revision date: 2020-02-07

The Query Builder Window shows only one source database(1) by default, but additional sources can be added by selecting the **Options Button**(2):





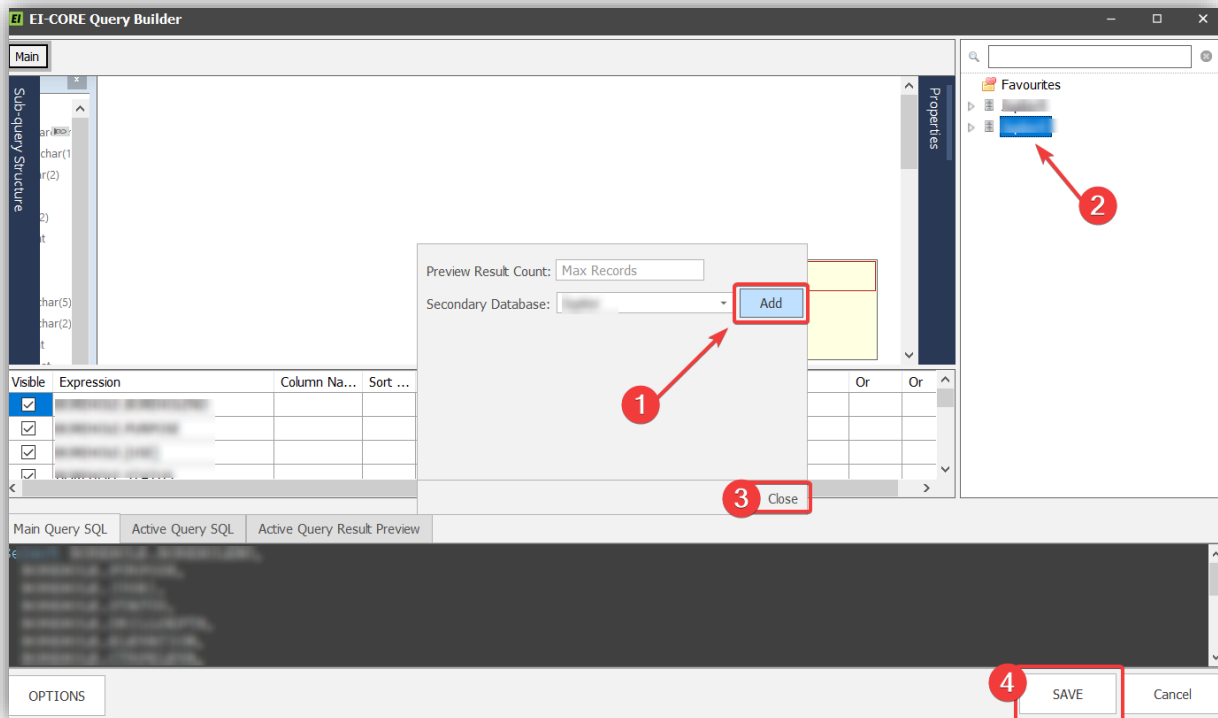
This opens a new windows with a drop down menu(1) displaying available data sources(2):



Highlight the desired Source and select **Add**(1). The additional Data source now appears in the right pane(2).
Continue until all required sources are added. Then close(3) the options-window and Save(4) the query.



“Creating new Subject Model in EI-CORE”
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Building file validation activity

EI-CORE version number: 2.04.81.00
Document revision date: 2020-01-16

As **Activity manager** is a highly generic tool, there is no *one* way to use it. This instruction uses a File-validation need as a case scenario, but the method will be similar in many other cases.

Assignment:

A company has the need to control in which format files are uploaded to a server when working in campaign environments. The company has its own validation engine but needs a place where employees can manage which requirements and restrictions the validation engine should apply for validation.

The requirements to the file formats have already been entered in EI-CORE as **Rule Sets**.

The whole drill is broken down to the following tasks:

1. Create Project
The company in this example has its Campaigns bundled in overall projects
2. Create Sub Project
The company's “campaign” in this case equivalent to the EI-CORE **sub-project** module
3. Build Activity
The **Activity** is where Task Groups are applied to a module
4. Build Task Group
Task Groups hold a collection of tasks
5. Build File format Task
Tasks are the content of task groups. They are the specific constraints, requirements or parameters that is to be evaluated within a module
6. Assign Task Group to Activity
7. Assign Activity to Module
A **module** can be any EI-CORE module. In this case it will be a sub project.
8. Enter meta data
Once the module is set up for file validation, it is necessary to



Create Project

- Go to the **Projects module** in the **Business** menu:

The screenshot shows the EI-CORE 2.04.81.00 interface. On the left is a dark sidebar menu with the following items: Home, Setup, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, Translations, Exchange > Input, Input > Knowledge Hub, Knowledge Hub > Output, **Business** (highlighted with a red box), Projects (highlighted with a blue bar), Applications, and Services. A red arrow points from the 'Business' menu item to the 'Projects' sub-item. The main content area shows a table with columns: Select, Name, Description, Abbr, and Active. The table contains five rows of project data:

Select	Name	Description	Abbr	Active
<input type="checkbox"/>	Project 1		PRO1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 2		PRO2	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 3		PRO3	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 4		PRO4	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 5		PRO5	<input checked="" type="checkbox"/>



- Click the blank row in the top of the grid:

The screenshot shows a software interface with three tabs: "Projects", "Sub Projects", and "Project Output Models". Below the tabs is a toolbar with icons for "Save", "Delete Selected", "Cancel & Refresh", "Add Row", "Grid Find", "Column Filter", "Last Modified", and "Change History". Below the toolbar is a grid with columns: "Select", "Name", "Description", "Abbr", and "Active". The grid contains two rows of data: "Project 1" and "Project 2". A red box highlights a blank row at the top of the grid, and a red arrow points to it.

Select	Name	Description	Abbr	Active
*	Click here to add a new row			
<input type="checkbox"/>	Project 1		PRO1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 2		PRO2	<input checked="" type="checkbox"/>



- Enter project name, abbreviation. Consider adding an optional description.
Click **Add Row** (1) to add the project and **Save** (2) to save the changes:

Projects Sub Projects Project Output Models

Save Delete Selected Cancel & Refresh Add Row Grid Find Column Filter Last Modified Change History

Data Grid Tools Tools

Drag a column header here to group by that column

Select	Name	Description	Abbr	Active
		New Project	NP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 1		PRO1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 2		PRO2	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 3		PRO3	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 4		PRO4	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 5		PRO5	<input checked="" type="checkbox"/>

Create Sub Project



- Navigate to the **Projects** module in the **Business** menu, highlight the desired project and click the **Sub Projects** button:

The screenshot shows the EI-CORE application interface. On the left is a navigation menu with the following items: Home, Setup, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, Translations, Business (highlighted with a red box), Applications, and Services. The 'Business' menu is expanded, showing 'Projects' (highlighted with a blue bar and a red box) and 'Sub Projects' (highlighted with a red box). The main content area displays a table with columns: Select, Name, Description, Abbr, and Active. The table contains a 'New Project' row (highlighted with a red box) and five other project rows (Project 1 to Project 5). Above the table is a toolbar with buttons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. A red arrow points from the 'Sub Projects' button in the top navigation bar to the 'Add Row' button in the toolbar.

Select	Name	Description	Abbr	Active
<input type="checkbox"/>	New Project		NP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 1		PRO1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 2		PRO2	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 3		PRO3	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 4		PRO4	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 5		PRO5	<input checked="" type="checkbox"/>



- Verify that it is the correct project name, and click the empty line to add a new **Sub Project**:

The screenshot shows the 'Sub Projects' tab selected in the interface. The toolbar includes buttons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. The current project name is 'New Project', which is highlighted. The grid below has columns for 'Select', 'Name', 'Description', 'Abbr', and 'Active'. The bottom row of the grid is highlighted and contains the text 'Click here to add a new row', with a red arrow pointing to it.

Select	Name	Description	Abbr	Active
*	Click here to add a new row			



- Enter Name, description (optional) and Abbreviation. Click **Add Row** (1) and **Save** (2):

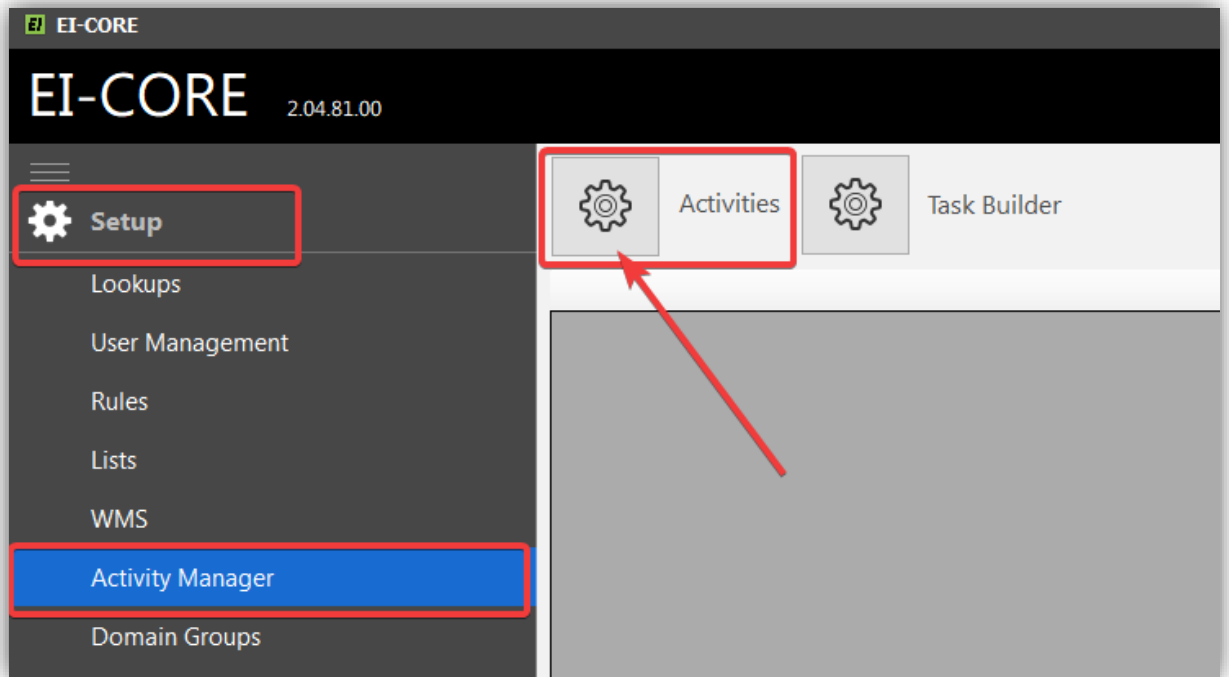
The screenshot shows the 'Sub Projects' tab in the EI-CORE interface. The toolbar includes buttons for 'Save', 'Delete Selected', 'Cancel & Refresh', 'Add Row', 'Grid Filter', 'Column Filter', 'Last Modified', and 'Change History Tools'. The 'Add Row' button is circled in red and labeled with a red '1'. The 'Save' button is also circled in red and labeled with a red '2'. Below the toolbar, the status bar shows '[Name]: New Project [Active]: True [Sub Projects]: 1'. A message says 'Drag a column header here to group by that column'. A table is displayed with the following data:

Select	Name	Description	Abbr	Active
<input type="checkbox"/>	New Sub		SUBN	<input checked="" type="checkbox"/>



Build Activity

- Locate the **Activity Manager** in the **Setup** menu and select the **Activities Button**:





- Click the **Add Row** button in bottom of the screen to add a new activity:

The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' (selected) and 'Task Builder'. Below the tabs is a table with columns: Delete, Add Row, Type, Allow Multiple, Name, and Description. The table contains several rows of activity data. A red box highlights the 'Add Row' button in the first row. Below the table is a 'Contents' section with a smaller table containing one row: 'test Task group' with an order of 1. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. A red arrow points to the 'ADD ROW' button.

Delete	Add Row	Type	Allow Multiple	Name	Description
>	Add Row	Standard	<input type="checkbox"/>		
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	another Activity	
Delete	Add Row	Standard	<input type="checkbox"/>	Example 1	Info
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2	
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Activity	
Delete	Add Row	Standard	<input type="checkbox"/>	test	test upload
Delete	Add Row	Standard	<input type="checkbox"/>	Upload Sample	

Delete	Add Row	Task Group	Order
Delete	Add Row	test Task group	1

SAVE REFRESH **ADD ROW**

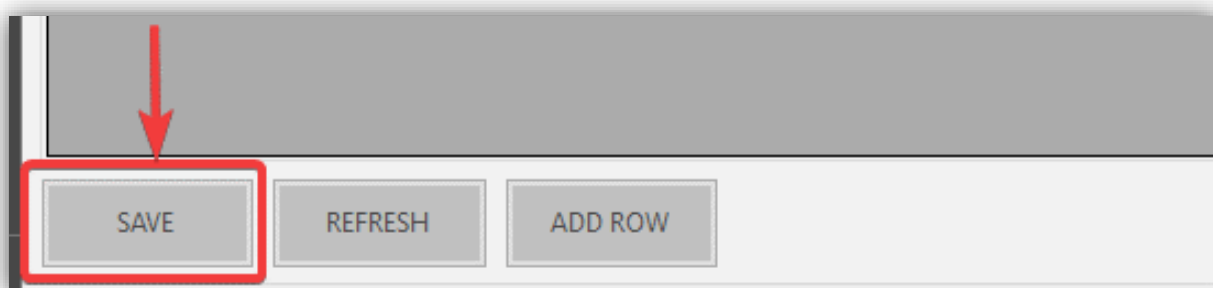


- Select **Standard Type** and enter Name and description. **Do not** tick of “allow multiple” in this case.

Activities Task Builder

	Delete	Add Row	Type	Allow Multiple	Name	Description
▶	Delete	Add Row	Standard ▾	<input type="checkbox"/>	New activity	Some info
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	another Activity	
	Delete	Add Row	Work Flow	<input type="checkbox"/>	Example 1	Info
	Delete	Add Row	Standard ▾	<input checked="" type="checkbox"/>	Example 2	
	Delete	Add Row	Standard ▾	<input checked="" type="checkbox"/>	Example Activity	
	Delete	Add Row	Standard ▾	<input type="checkbox"/>	test	test upload
	Delete	Add Row	Standard ▾	<input type="checkbox"/>	Upload Sample	

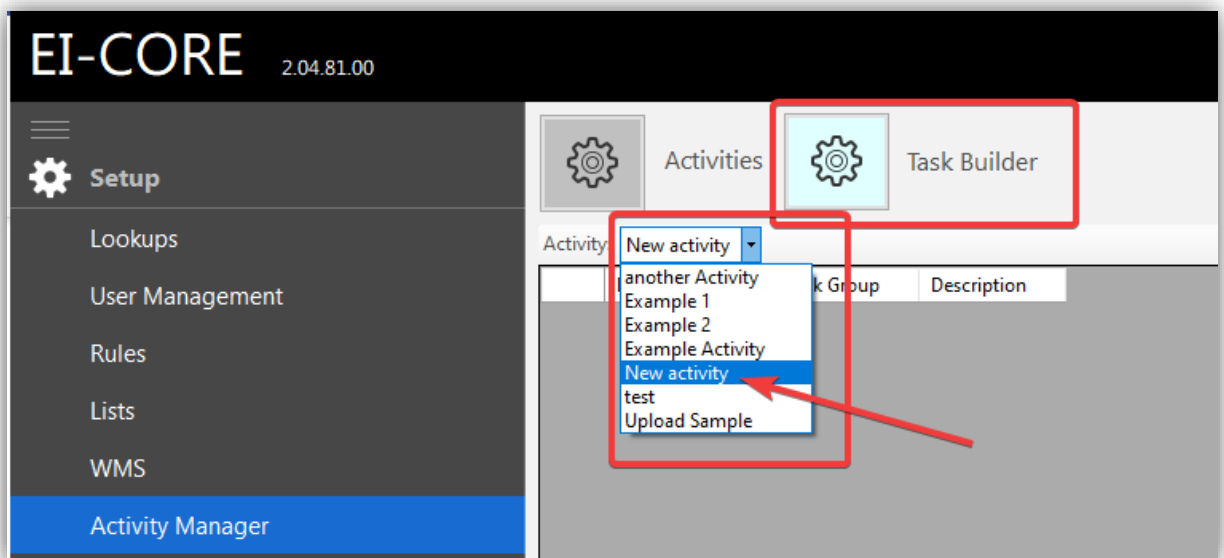
- Click **Save button** in the bottom of the screen:





Build Task Group

- Within the **Activity Manager**, click the **Task Builder** button and select the desired activity from the drop-down menu:





- Click the **Add Row button** in the bottom of the screen. A new row will appear in the upper field:



“Creating new Subject Model in EI-CORE”
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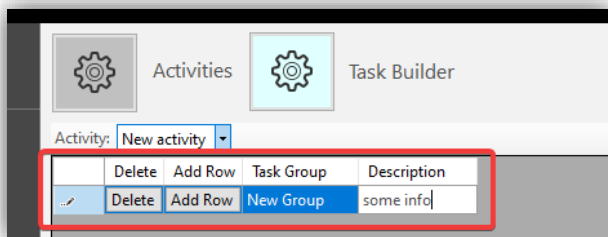
The screenshot displays the 'Task Builder' interface. At the top, there are two tabs: 'Activities' and 'Task Builder'. Below the tabs is a dropdown menu labeled 'Activity:' with 'New activity' selected. A table is shown with the following structure:

	Delete	Add Row	Task Group	Description
▶	Delete	Add Row		

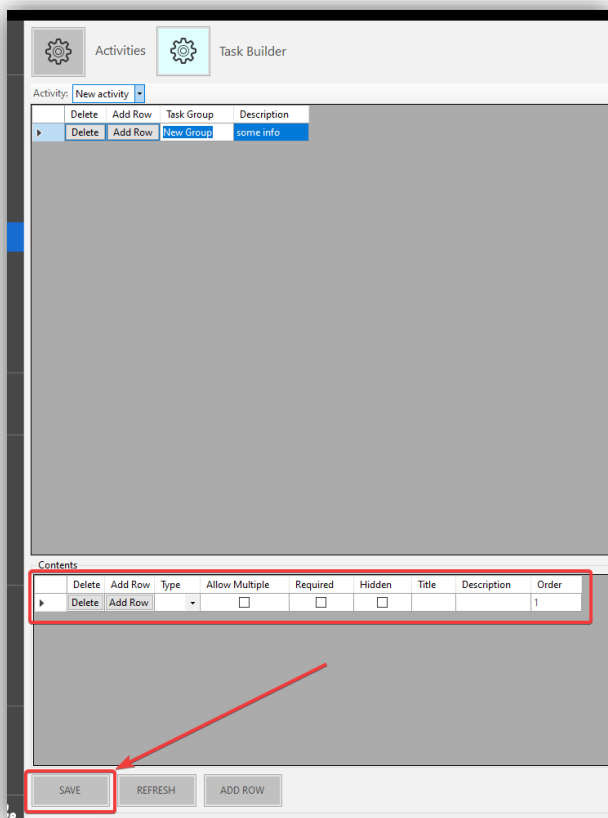
Below the table is a section labeled 'Contents' with a large empty area. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. A red box highlights the 'ADD ROW' button, and a red arrow points to it from the 'ADD ROW' button in the table's first row.



- Enter Task Group Name and description:



- Click the **Save Button** in the bottom of the screen. Content can now be added in the **Content Window**:





Build File format Task

- Go to the **Task Builder** in the **Activity Manager** and select desired **activity** (1) and **Task Group** (2). Click the **Add Row** button within the **Contents Window** (if no content has been entered yet, edit the existing row instead of adding a new):

The screenshot shows the 'Task Builder' interface. At the top, there are two tabs: 'Activities' and 'Task Builder'. Below the tabs, there is a dropdown menu for 'Activity' with 'New activity' selected. A red box highlights this dropdown, and a red number '1' is placed next to it. Below the dropdown, there is a table with columns 'Delete', 'Add Row', 'Task Group', and 'Description'. The 'Add Row' button is highlighted with a red box, and a red number '2' is placed next to it. Below the table, there is a 'Contents' window with a table. The table has columns: 'Delete', 'Add Row', 'Type', 'Allow Multiple', 'Required', 'Hidden', 'Title', 'Description', and 'Order'. The 'Add Row' button is highlighted with a red box, and a red arrow points to it. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'.

Delete	Add Row	Type	Allow Multiple	Required	Hidden	Title	Description	Order
>	Add Row		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			1



- Select **Rule Sets** from **Type Drop-down menu** (1), **Allow Multiple** (2), **Required** (3). Enter **Title** (4) and **Description** (5). Then click **Save Button**:

Delete	Add Row	Type	Allow Multiple	Required	Hidden	Title	Description	Order
Delete	Add Row	Rule Sets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Format	File format	1

SAVE REFRESH ADD ROW

Assign Tasks Group to Activity

- Navigate to the **Activities** view in **Activity Manager** and highlight desired Activity:

EI-CORE 2.04.81.00

Activities Task Builder

Delete	Add Row	Type	Allow Multiple	Name	Description
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	another Activity	
Delete	Add Row	Standard	<input type="checkbox"/>	Example 1	Info
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2	
Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Activity	
Delete	Add Row	Standard	<input type="checkbox"/>	New activity	Some info
Delete	Add Row	Standard	<input type="checkbox"/>	test	test upload
Delete	Add Row	Standard	<input type="checkbox"/>	Upload Sample	

Activity Manager



- Select the **Tasks tab** in the panel to the right, and tick of desired task groups. Finish by clicking **Save button**:

The screenshot shows the Task Builder interface. At the top, there are two tabs: 'Activities' (active) and 'Task Builder'. Below the tabs is a table of activities:

	Delete	Add Row	Type	Allow Multiple	Name	Description
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	another Activity	
	Delete	Add Row	Standard	<input type="checkbox"/>	Example 1	Info
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2	
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Activity	
▶	Delete	Add Row	Standard	<input type="checkbox"/>	New activity	Some info
	Delete	Add Row	Standard	<input type="checkbox"/>	test	test upload
	Delete	Add Row	Standard	<input type="checkbox"/>	Upload Sample	

Below the activities table is a 'Contents' section with a table:

	Delete	Add Row	Task Group	Order
▶	Delete	Add Row		1

On the right side, there is a 'Task Composition' panel with tabs for 'Activity Preview', 'Tasks', and 'Modules'. The 'Tasks' tab is selected and highlighted with a red box. It shows a tree view of activity composition with the following items:

- another Activity
- Example 1
- Example 2
- Example Activity
- New activity
- New Group
- test
- Upload Sample

Red boxes highlight the 'Tasks' tab and the 'New activity' and 'New Group' items. A red arrow points from the 'New activity' item to the 'SAVE' button at the bottom left of the interface.



Assign Activity to Module

- Navigate to the **Activities** view in **Activity Manager** and highlight desired **Activity** (1), Select the **Modules Tab** (2) and tick of the **Sub Projects box** (3). Click **Save** (4) when finished:

The screenshot displays the Activity Manager interface. At the top, there are two tabs: 'Activities' (selected) and 'Task Builder'. Below the tabs is a table of activities. The row for 'New activity' is highlighted with a red box and labeled '1'. To the right of the activities table is a 'Modules Connections' panel. The 'Modules' tab is selected and labeled '2'. In this panel, the 'Projects (Sub Projects)' checkbox is checked and highlighted with a red box and labeled '3'. At the bottom of the interface, there are three buttons: 'SAVE', 'REFRESH', and 'ADD ROW'. The 'SAVE' button is highlighted with a red box and labeled '4'. Below the activities table is a 'Contents' table with columns for 'Delete', 'Add Row', 'Task Group', and 'Order'. The 'Contents' table has one row with 'New Group' and '1'.

	Delete	Add Row	Type	Allow Multiple	Name	Description
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	another Activity	
	Delete	Add Row	Standard	<input type="checkbox"/>	Example 1	Info
1	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example 2	
	Delete	Add Row	Standard	<input checked="" type="checkbox"/>	Example Activity	
	Delete	Add Row	Standard	<input type="checkbox"/>	New activity	Some info
	Delete	Add Row	Standard	<input type="checkbox"/>	test	test upload
	Delete	Add Row	Standard	<input type="checkbox"/>	Upload Sample	

	Delete	Add Row	Task Group	Order
	Delete	Add Row	New Group	1

Activity Preview | Tasks | **Modules** 2

Modules Connections

- Application Data Model Mappings (Group Details)
- Application Data Model Mappings (Mapping Groups)
- Application Data Models (Data Marts)
- Application Data Models (Table Attributes)
- Application Data Models (Tables)
- Applications
- Business Services
- Data Source (Types)
- Data Sources (Sources)
- Domain Groups (Domain Groups)
- Projects (Data Marts)
- Projects (Projects) 3
- Projects (Sub Projects)**
- Script Manager
- Subject Data Model Mappings (List Aliases)
- Subject Data Model Mappings (Mapping Group Details)
- Subject Data Model Mappings (Mapping Groups)
- Subject Data Models (Attributes)
- Subject Data Models (Dimensions & Facts)
- Subject Data Models (List Items)
- Subject Data Models (Lists)

4

SAVE REFRESH ADD ROW



Enter meta data

- Navigate to the **Projects module** and highlight desired **Sub Project**:

The screenshot shows the EI-CORE 2.04.81.00 interface. The left sidebar contains a navigation menu with the following items: Code Manager, More, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, Translations, Exchange > Input, Input > Knowledge Hub, Knowledge Hub > Output, Business (highlighted with a red box), Projects (highlighted with a blue box), and Applications. The main content area displays a table of projects. The table has columns for Select, Name, Description, Abbr, and Active. The first row, 'New Project', is highlighted with a blue background and a red box. The table also includes a 'Click here to add a new row' link and a 'Drag a column header here to group by that column' instruction. The top navigation bar shows 'Projects', 'Sub Projects', and 'Project Output Models' buttons, with 'Projects' highlighted by a red box. The toolbar includes icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History.

Select	Name	Description	Abbr	Active
<input type="checkbox"/>	New Project		NP	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 1		PRO1	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 2		PRO2	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 3		PRO3	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 4		PRO4	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Project 5		PRO5	<input checked="" type="checkbox"/>



- Click **Sub Projects button**(1) and highlight a **Sub Project**(2). Activities assigned to the sub project module will appear in separate tabs in the **Activities window**(3) to the right:

The screenshot shows the software interface with three tabs: 'Projects', 'Sub Projects', and 'Project Output Models'. The 'Sub Projects' tab is selected and highlighted with a red box and a red '1'. Below the tabs is a toolbar with icons for Save, Delete Selected, Cancel & Refresh, Add Row, Grid Find, Column Filter, Last Modified, and Change History. The main area displays a table with the following data:

Select	Name	Description	Abbr	Active
<input type="checkbox"/>	New Sub		SUBN	<input checked="" type="checkbox"/>

The table row is highlighted with a red box and a red '2'. To the right, a 'New activity' dialog box is open, showing a 'New Group' section with a list of activities. The first activity, 'AGS+ v1.0 / AGS+ Screening v1.0', is selected and highlighted with a blue background. A red '3' is placed below the dialog box.

- Select desired activity from the activities tabs(1) (only one present in this demonstration) and fill in required and desired **tasks**(2) (also only one present in this demo). Click **save button**(3) when



finished:

The screenshot displays the 'Sub Projects' section of the EI-CORE application. At the top, there are three tabs: 'Projects', 'Sub Projects' (which is active), and 'Project Output Models'. Below the tabs is a toolbar with icons for 'Save', 'Delete Selected', 'Cancel & Refresh', 'Add Row', 'Grid Find', 'Column Filter', 'Last Modified', and 'Change History'. The 'Add Row' icon is highlighted with a red '1'. Below the toolbar, there is a header area with fields for '[Name]: New Project', '[Active]: True', and '[Sub Projects]: 1'. A table with columns 'Select', 'Name', 'Description', 'Abbr', and 'Active' is shown. The 'Name' column header is highlighted with a red '3'. The table contains one row: 'New Sub' with 'SUBN' as the abbreviation and a checked 'Active' box. A 'New Group' dialog box is open, showing a list of screening options. The 'AGS+ v1.0 / AGS+ Screening v1.2' option is selected and highlighted with a red '2'. The dialog also includes a 'Format (required)' section with a list of options: 'AGS+ v1.0 / AGS+ Screening v1.0', 'AGS+ v1.0 / AGS+ Screening v1.1', 'AGS+ v1.0 / AGS+ Screening v1.2', 'AGS+ v1.0 / AGS+ Screening v1.3', and 'Survey tif v1.0 / Survey TIF v1.0'. The 'SAVE' and 'PRINT' buttons are also visible in the dialog.



Expression Builder

EI-CORE version number: 2.04.84.00
Document revision date: 23-01-2020

The **EI-CORE Expression Builder** is set of expressions used for defining univocal rules for exchange file formats.

- An expression rule is applied to a **Rule Set(1)** that is applied to an **Exchange Schema(2)**. Both must be created beforehand.

Click the **empty row(3)** to create a new rule:

The screenshot shows the EI-CORE Expression Builder interface. The top menu bar includes 'Models', 'Attributes', 'Schemas', and 'Rules' (highlighted with a red box and labeled 1). Below the menu is a toolbar with icons for 'Save', 'Delete Selected', 'Cancel & Refresh', 'Add Row', 'Grid Find', 'Column Filter', 'Last Modified', 'Data Entry', 'Power Edit', 'Set Order', and 'Change History'. The main area displays a table with the following columns: 'Select', 'Name', 'Rule', 'Input', 'Active', 'Priority', 'Description', and 'Cor'. The table header row is highlighted with a red box and labeled 2. The empty row at the bottom of the table is highlighted with a red box and labeled 3, containing the text 'Click here to add a new row'. The left sidebar shows the 'Exchange' option under the 'Models' section.



- Provide a descriptive **name** for the rule (1), Click the **Rule Drop-down**(2) and select **Expression Rule**(3) from the list:

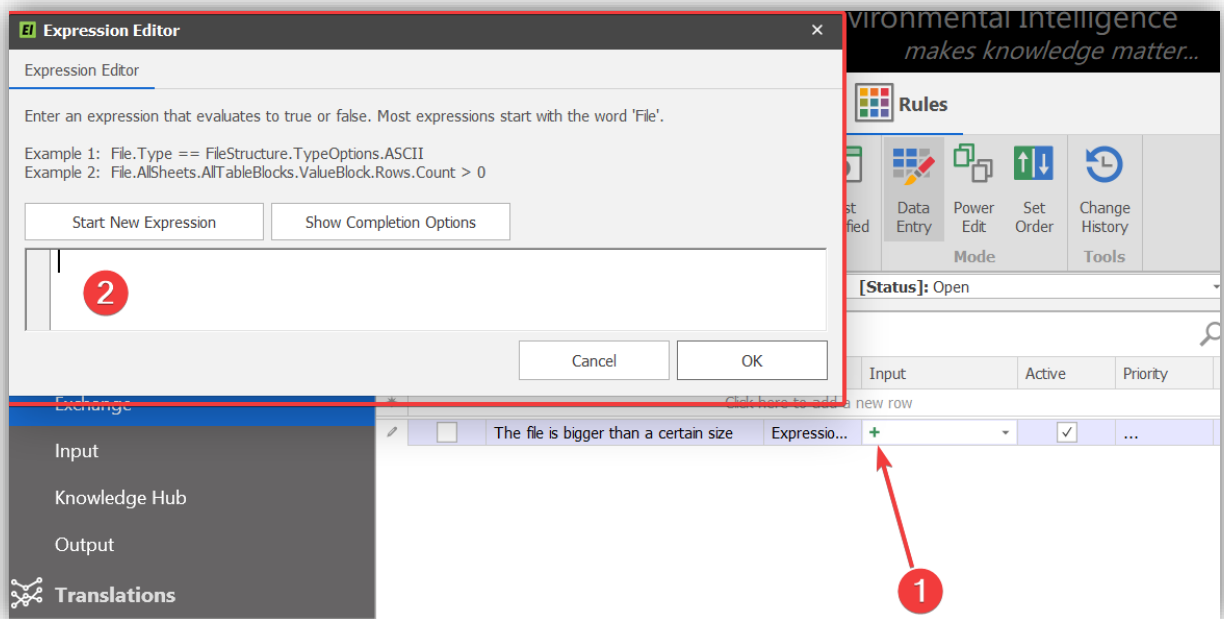
The screenshot shows the EI-CORE application window with the 'Rules' tab selected. The interface includes a sidebar with navigation options like Home, Setup, Data Sources, Models, Exchange, Input, Knowledge Hub, Output, and Translations. The main area displays a table of rules. A dropdown menu is open for the 'Rule' column, showing options: 'Expression Rule' (highlighted in blue), 'Descriptive Rule', and 'Type the required expression'. Red arrows and numbers 1, 2, and 3 indicate the steps: 1 points to the 'Name' column, 2 points to the 'Rule' dropdown, and 3 points to the 'Expression Rule' option.

Select	Name	Rule	Input	Active	Priority
	The file is bigger than a certain size	...	+	<input checked="" type="checkbox"/>	...

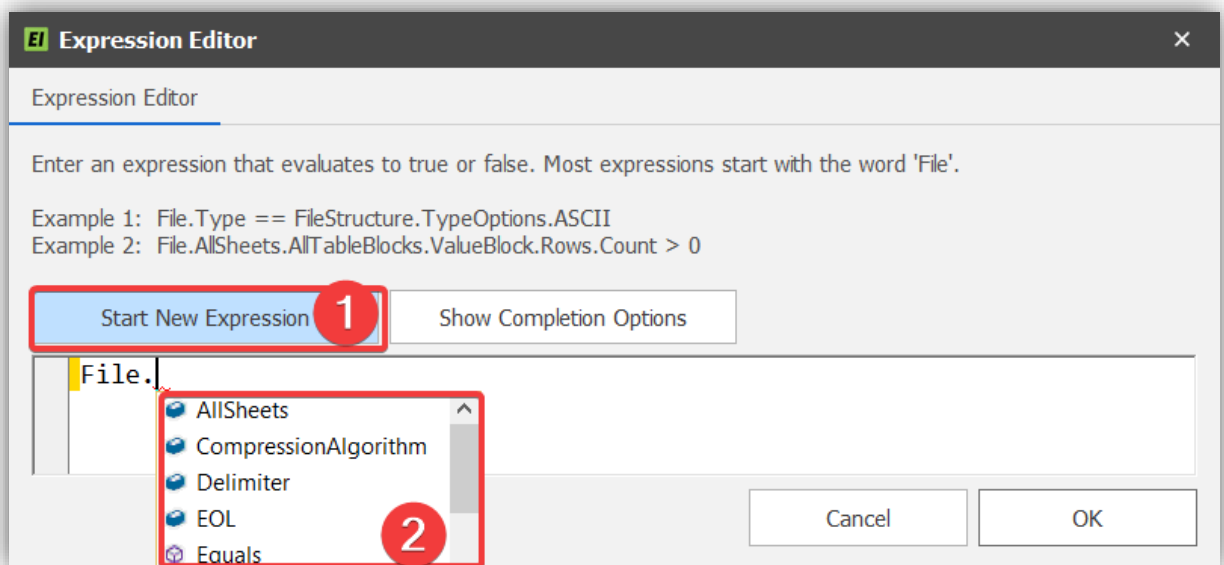
Name	Description
Expression Rule	Type the required expression
Descriptive Rule	Describe the rule using words



- Click the green **plus sign** (1) to open the **Expression Editor window**(2):

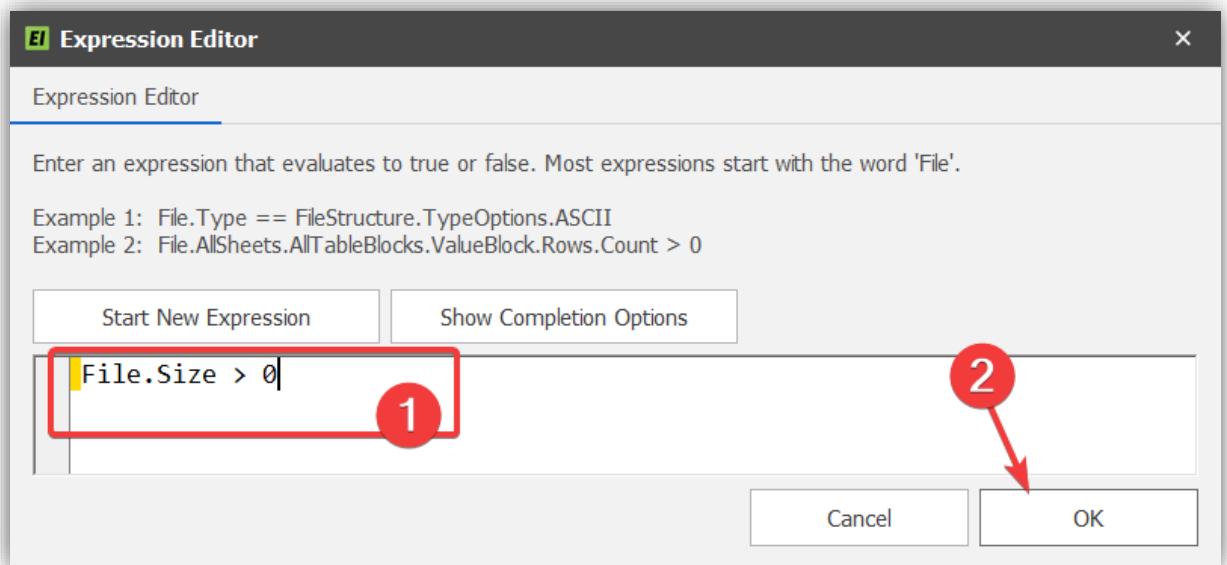


- Select **Start New Expression**(1). The expression editor will provide a menu of available expressions(2):





- Complete the rule(1) and close the Expression Editor by hitting **OK-button(2)**:





- Provide a description(1) and comment(2) at will, and click **Save(3)** to finish:

[Schema]: TEST Schema v1.0 [Rule Set]: Test Rule Set v1.0 [Status]: Open

Drag a column header here to group by that column

	Input	Active	Priority	Description	Comment	Order
*	Click here to add a new row					
essio...	+ File.Size > 0	<input checked="" type="checkbox"/>	...	This is a good rule!	No it's not!	0,0000



Extracting data from EI-CORE

EI-CORE version number: 2.05.00.00

Document revision date: 2020-02-12

About EI-CORE data

Data entered in EI-EICORE, can be extracted from a third-party application by the use of Database Queries. The EI-CORE database is equipped with predefined Functions to easily extract common values.

Functions

A function stores a pre-entered DB query, for consistent data extraction.

To Call a function from an external application like Excel, a connection must be made to the EI_CORE database.

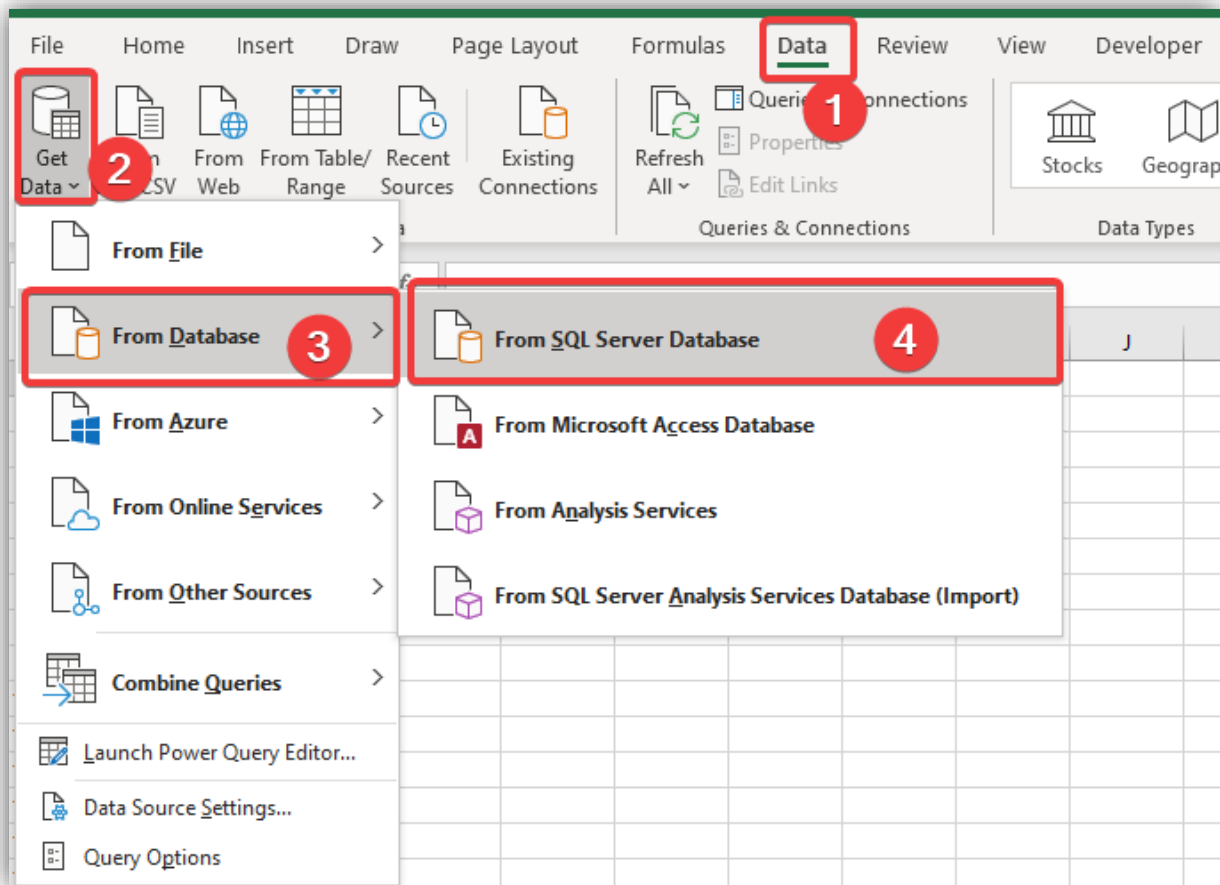
From Excel it can be done as described here:

Go to the **Data menu(1)** and select **Get Data item(2)**. Select the **From Database-option(3)** and choose **From SQL Server Database(4)**.

If you database is not a SQL Server Database, please enquire at you local Database Admin in order to obtain



required connection information.



Enter Server path(1) and database name(2) as provided by your Database administrator, and select **OK**:



SQL Server database

Server ⓘ

A^B_C eiserver1 1

Database (optional)

A^B_C EI-CORE 2

Advanced options

OK Cancel

If prompted during the process provide database credentials as obtained from your DBA. A windows showing the content of the Database should now appear.

At left pane, scroll to the bottom, and select the desired formula (1).

The *ExchangeSchemaTableReference_AllTables* formula provides an overview of applicable Table GUIDs(2) needed for selecting a specific table with the *ExchangeSchemaTableDesign* formula.

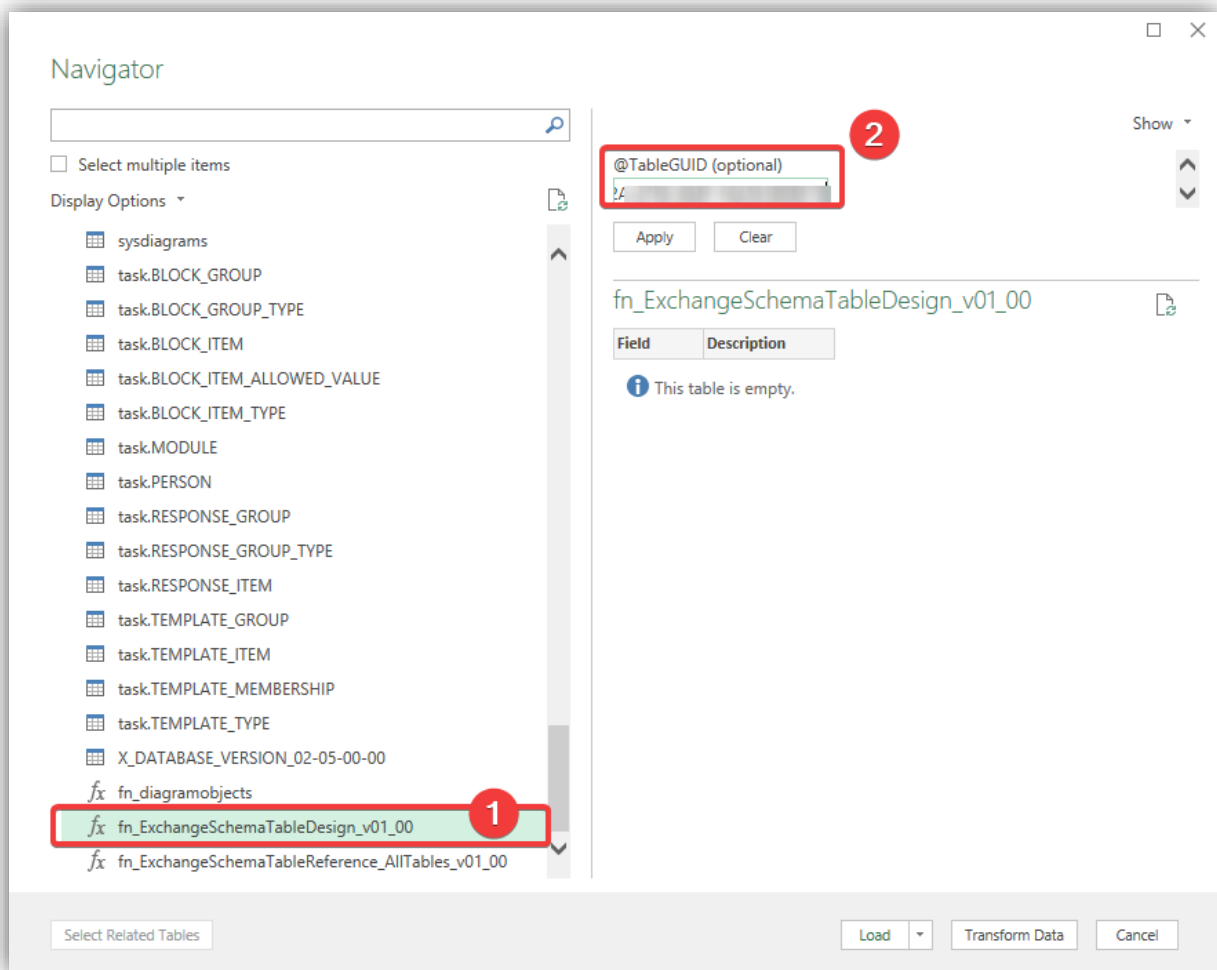


When the correct formula is selected, select **Load(3)** to load the table to the excel Sheet.

The screenshot shows a software interface with a 'Navigator' pane on the left and a data table on the right. The Navigator pane contains a list of items, with the formula `fn_ExchangeSchemaTableReference_AllTables_v01_00` selected and highlighted by a red box labeled '1'. The data table on the right has columns for 'Exchange Schema', 'Table', 'Status', and 'Table GUID'. The 'Table GUID' column is highlighted by a red box labeled '2'. At the bottom right of the interface, there is a 'Load' button highlighted by a red box labeled '3', along with 'Transform Data' and 'Cancel' buttons.



If a formula needs parameters as with the the *ExchangeSchemaTableDesign* formula(1), the parameters are entered in the parameter field(2).

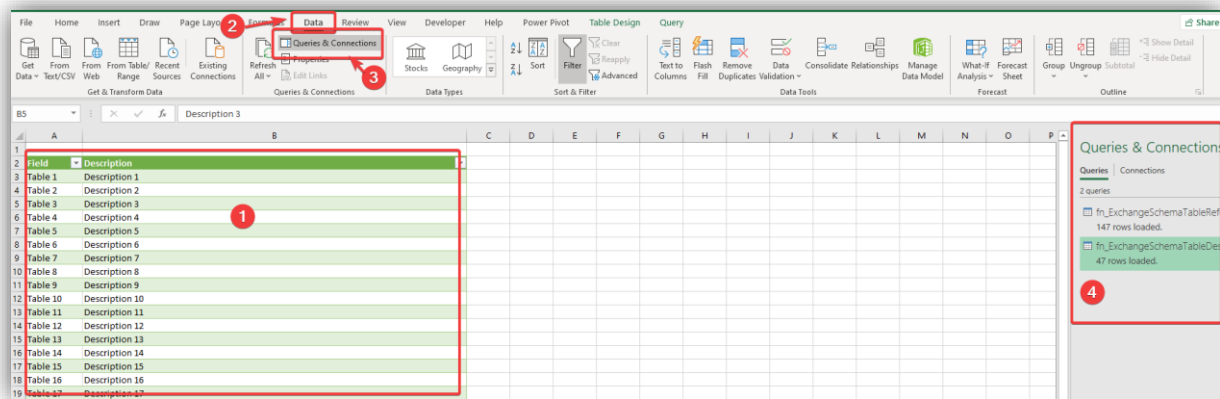


Once a formula is loaded, it will usually appear as a table in the spread sheet(1).



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To view and edit connections, navigate to the **Data** menu(2) and make sure **Queries and Connections**(3) are highlighted. The Queries will be shown in the right pane(4):





To load a query to the spread sheet, right click the query and select **Load To...(1)** In the Import data-window select **Table(2)** or any appropriate option an press **OK(3)**.



The screenshot displays the 'Queries & Connections' task pane on the left, showing two queries. The second query, 'fn_ExchangeSchemaTableDesign_v01...', is selected, and a context menu is open over it. The 'Load To...' option is highlighted with a red box and the number 1. To the right, the 'Import Data' dialog box is open. It has a title bar with a question mark and a close button. The dialog contains the following options:

- Under 'Select how you want to view this data in your workbook.':
 - Table (2)
 - PivotTable Report
 - PivotChart
 - Only Create Connection
- Under 'Where do you want to put the data?':
 - Existing worksheet:
 - Text box: =SAS2
 - New worksheet
- Add this data to the Data Model (3)
- Buttons: Properties..., OK, Cancel



Missing a topic?

The EI-CORE help files are continuously incremented. If you have a request for a topic or if you need assistance not covered in these files, please send us an email at support@ei-group.dk