**Introduction**

This case study is about the middle ware product KashPEAK, where it act as middle ware between the multiple data source to the other multiple data source or single data source.

This product will be built as a SAAS model

**Scope Summary**

The scope of this product is, the product needs connect to the multiple data source and transfer the data to single data source or other multiple data source.
The multiple data source can be:

1. My Sql
2. Tally
3. Zoho
4. Mongo
5. Excel

There can be any multi source even SAP, any type of ERP etc.

This product needs to have data validation and data accuracy , so that the transfer of data will be 100% Successful.

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**The Opportunity**

The opportunity for the finalization of this KashPEAK product is , that any company or the institution or any other concerns  has very difficult in consolidating the report from the different locations and different  data base, so the opportunity is now that we have to  find a middle ware  which will act as agent collaborate with different data source and give a data in single or multiple data source.


**The Project Concept**

The Project Concept was taken from the oppournity , that there shall be a middle ware between the data source , a product with SAAS model needs to be created.
So first the concept was done that the KashPEAK product can be created in B2B scope and then it can be changed to the SAAS model.
And first connector/Data Source Can be

1. Mongo DB
2. MySQL
3. Excel
4. Tally
5. Zoho

**Planning Sprints**
**The KashPEAK Product**

 The KashPEAK product comprises of the below menus.

1. Dashboard
2. Manage Configuration
    a.   Data Source
    b.   Transform Data
3. Diagnostic
4. System Configuration


**DashBoard**

   The dashboard comprises of all the reports which are connected to the different data sources, It can be any DB which the users needs.

   The dashboard will be based on the users credentials.

   **Screen Shot.**

## Manage Configuration

The Manage Configuration is for the users to select the data source , create the tenant that is process name, so the users can totally confirm the process what they needed, the process is nothing but the transfer of the data.
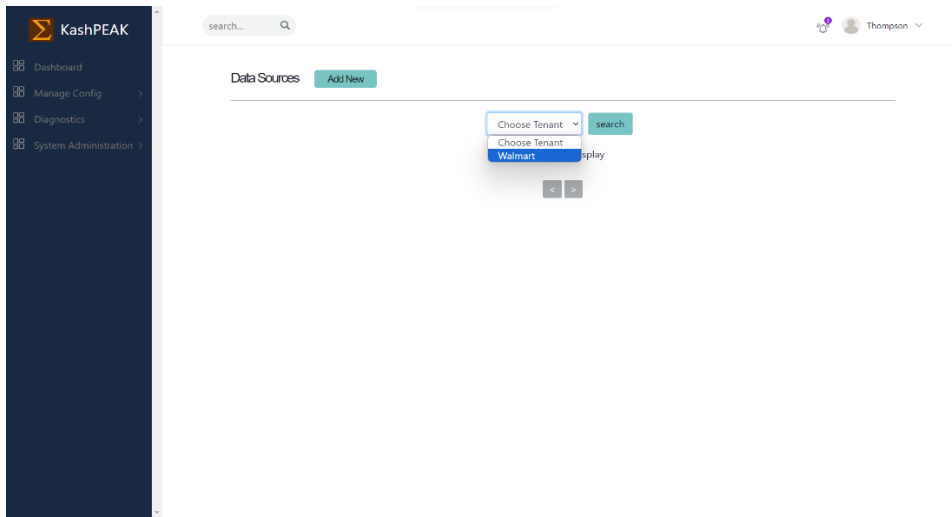
The Manage configuration comprises of :

1. Data Source
2. Transform

### Data Source

The Data source is which the user can name the Tenant , create the tenant, and select the tenant, and In the tenant can select the data source.

1. **Tenant**

   **Screen Shot**

| Column | Notes |
|---|---|
| Search | You can search the tenant and choose the tenant |
| Add New | You Can add new data source for the new data transfer |

## 2. Data Source

Once you select the tenant , the list of data source will be listed, where you edit the existing data source or delete the existing data source.

You can add a new data source also.
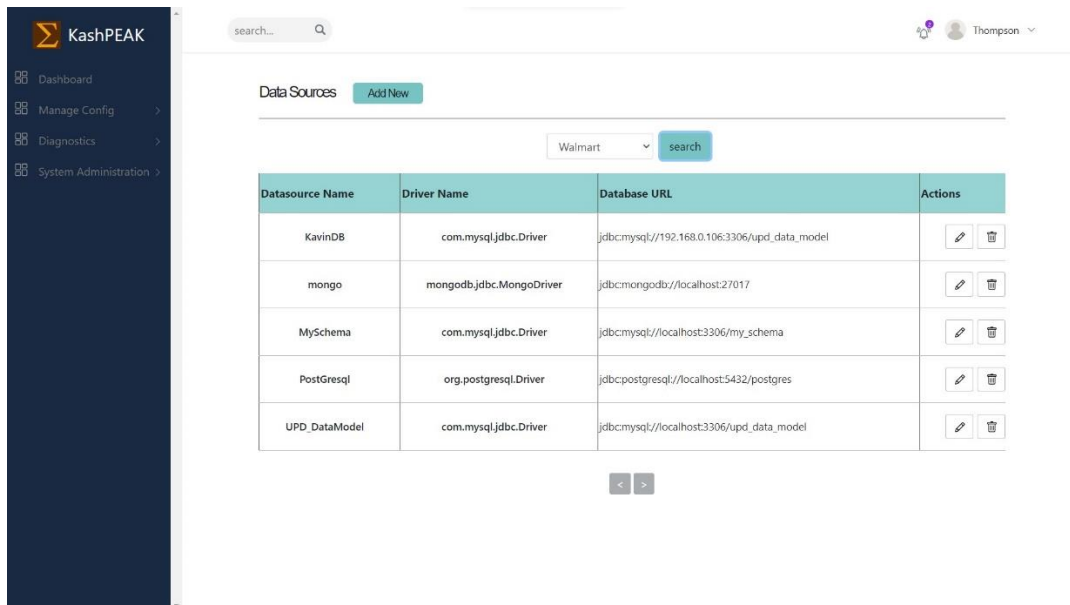
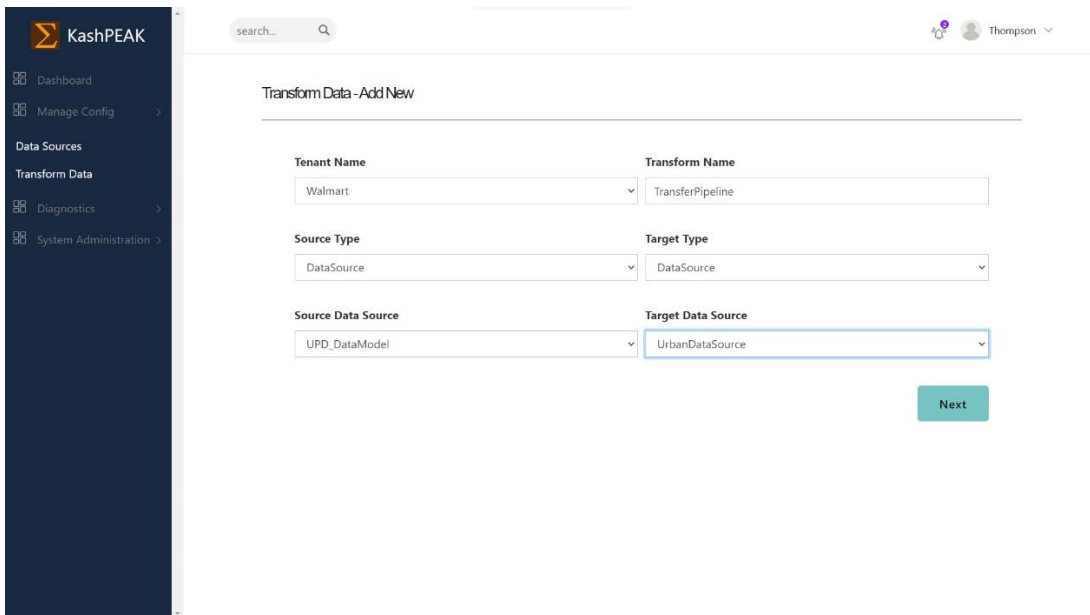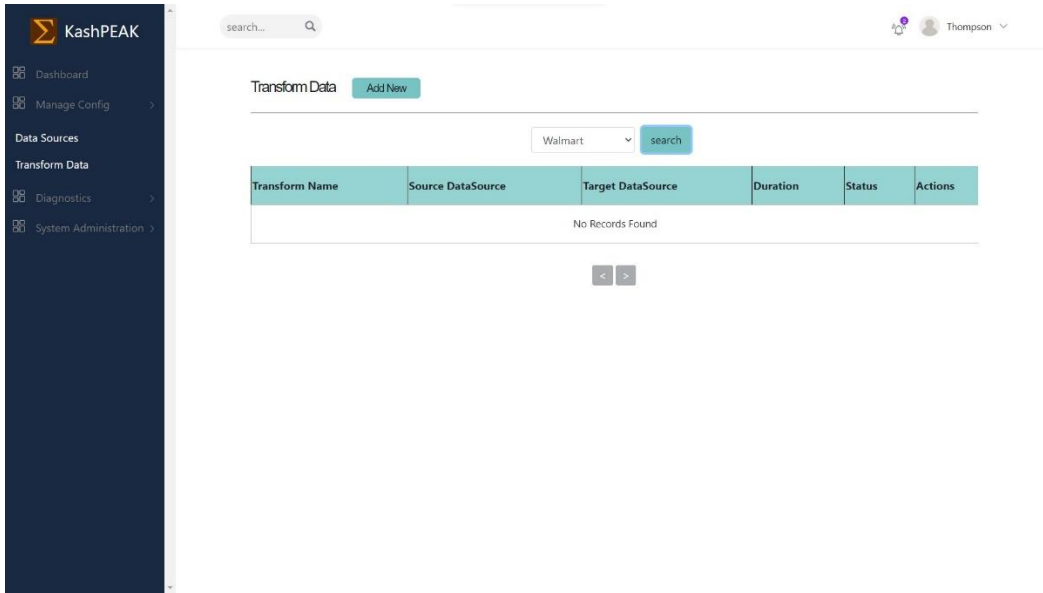| Column | Notes |
|---|---|
| Tenant | We have to choose the tenant name |
| Data Source Name | We have to write the data source name |
| Data Source Type | We have to choose the data source type, like MySQL, Mongo, Tally etc |
| Database URL | We have to write and confirm the URL of the data base |
| Database Name | We have to confirm the name for the database |
| User name and Password | We have to give user name and password for the authentication. |
| Test | We can test the data source by the Test option |
| Cancel | We can cancel the Data source addition by cancelling option |
| Save | After entering all the fields you can save the Data source, and it will be listed in the Datasource list view |

## Transform Data

In the transform data , the data source selection will be done and the data will be transferred, in the transform data menu, the list of transform data will listed and you can also add new transform data.

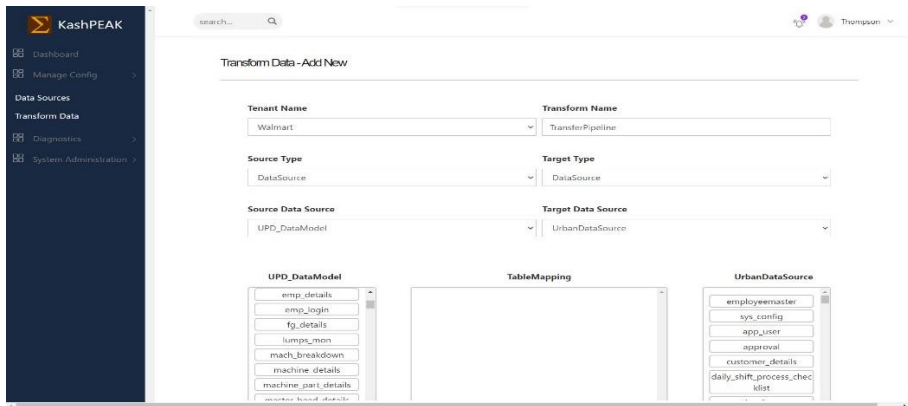In the transform data list, the you can edit and delete listed transform data.





| Column | Notes |
|---|---|
| Tenant Name | We have to choose the tenant name |
| Transform Name | We have to write the transform name |
| Source Type | We have to choose the source type, like MySQL, Mongo, Tally etc |

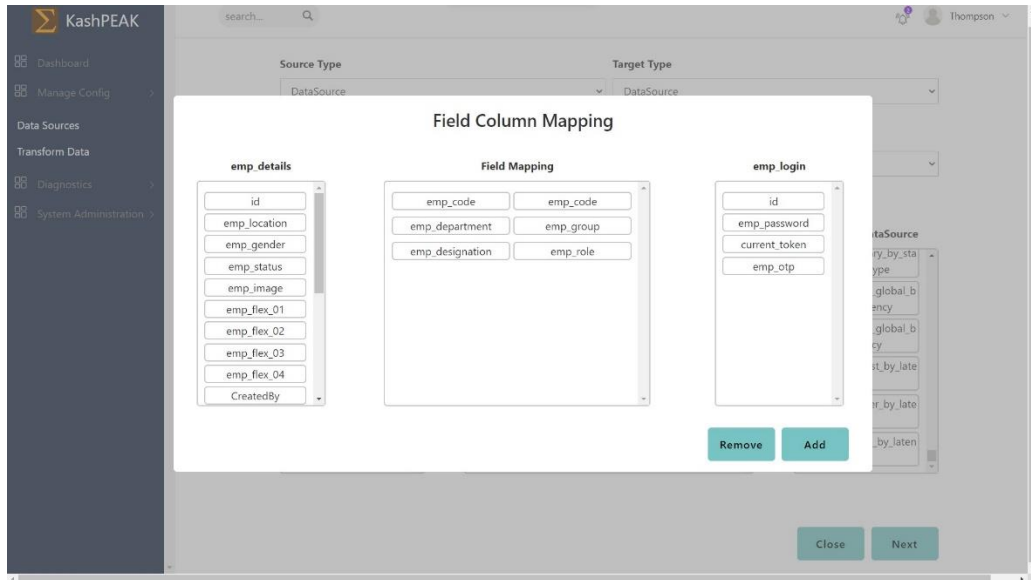| | |
|---|---|
| Target type | We have to choose the source type, like MySQL, Mongo, Tally etc |
| Source Data Source | We have to choose which data source needed for the source to send data |
| Target Data Source | We have to choose which data source needed for the source to receive data |
| Next | Next option for the next screen |

## *Transform Data Process*

Once the Next option has been given the list of table mapping will listed , based on the source data source and Target data source.

We have to select the table in source data source and target datasource for the table mapping



| Column | Notes |
|---|---|
| Tenant Name | We have to choose the tenant name |
| Transform Name | We have to write the transform name |
| Source Type | We have to choose the source type, like MySQL, Mongo, Tally etc |
| Target type | We have to choose the source type, like MySQL, Mongo, Tally etc |
| Source Data Source | We have to choose which data source needed for the source to send data |
| Target Data Source | We have to choose which data source needed for the source to receive data |
| Source Data Table | Details in the source data source will be listed |
| Target Data table | Details in the target data source will be listed |
| Table Mapping | The table selected will be list in the table mapping |

Once the Tables are selected and press the next options, then field mapping will listed, in which source data table fields and target data source fields will be enlisted.

Where we have to select the field to be transferred.

| Column | Notes |
|---|---|
| Tenant Name | We have to choose the tenant name |
| Transform Name | We have to write the transform name |
| Source Type | We have to choose the source type, like MySQL, Mongo, Tally etc |
| Target type | We have to choose the source type, like MySQL, Mongo, Tally etc |
| Source Data Source | We have to choose which data source needed for the source to send data |
| Target Data Source | We have to choose which data source needed for the source to receive data |
| Source Data Table | Details in the source data source will be listed |
| Target Data table | Details in the target data source will be listed |
| Table Mapping | The table selected will be list in the table mapping |
| Field Mapping | Once the table are selected the field mapping has to be done |
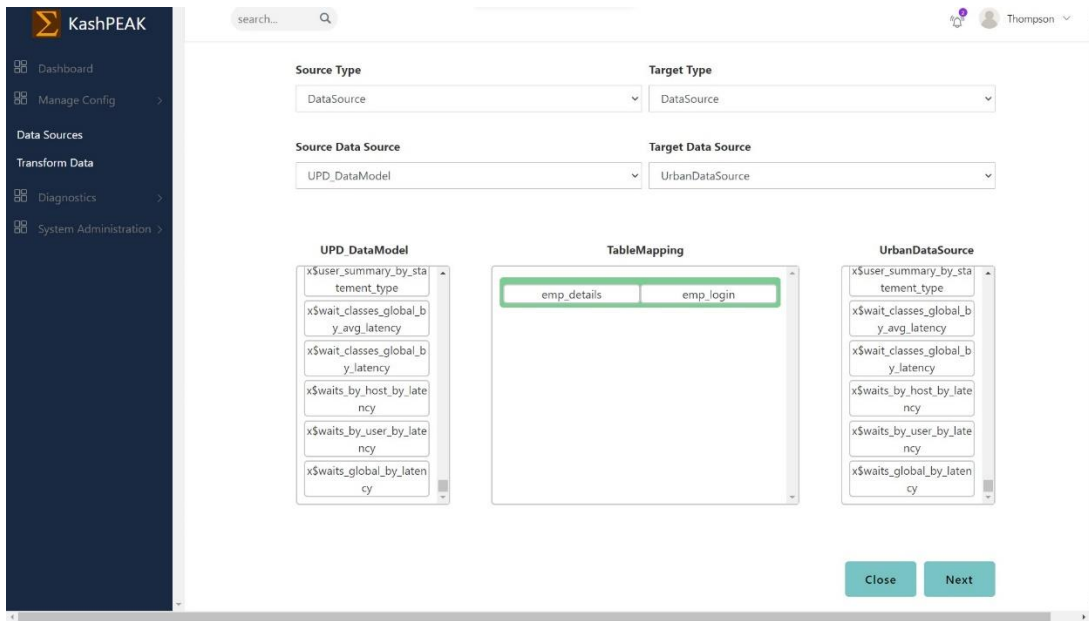
Once the field are selected and made the add option, then the table mapping done will be shown as green color, since the mapping are done correctly, if not done it will be shown in the red color.

## Scheduler
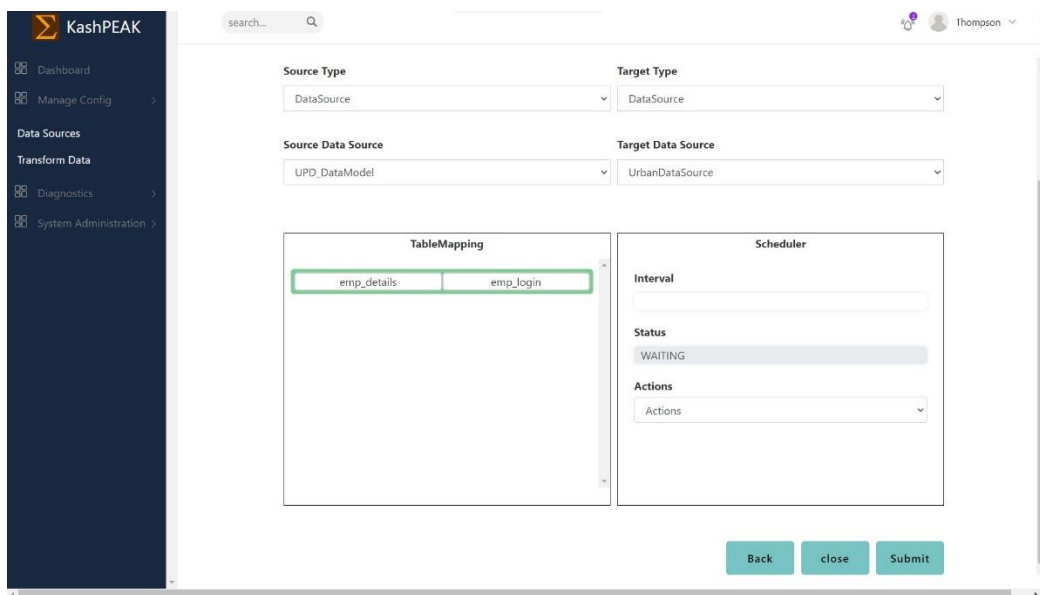


Once the table mapping is been done perfectly, then the scheduler screen will be shown, where we have to give the interval time, status will be shown and we have to choose the action menu.

| Column | Notes |
|---|---|
| Interval | We have to choose the interval time in minutes |
| Status | It will show the status of the data transfer |
| Action | We have to choose whether to start the scheduler |
| Submit | Once the scheduler has been fixed , we have to |

| | |
|---|---|
| | click the submit button |



Then the scheduler will be listed in the transform data list view ,where you can edit the scheduler by pause and start the process.

## Tally To Excel

In the above paragraphs we have seen the generally process of data transfer between one DB to other DB,    which will SQL, or Mongo DB, in this heading we will be seeing the functionalities of Tally To Excel DB data transfer.
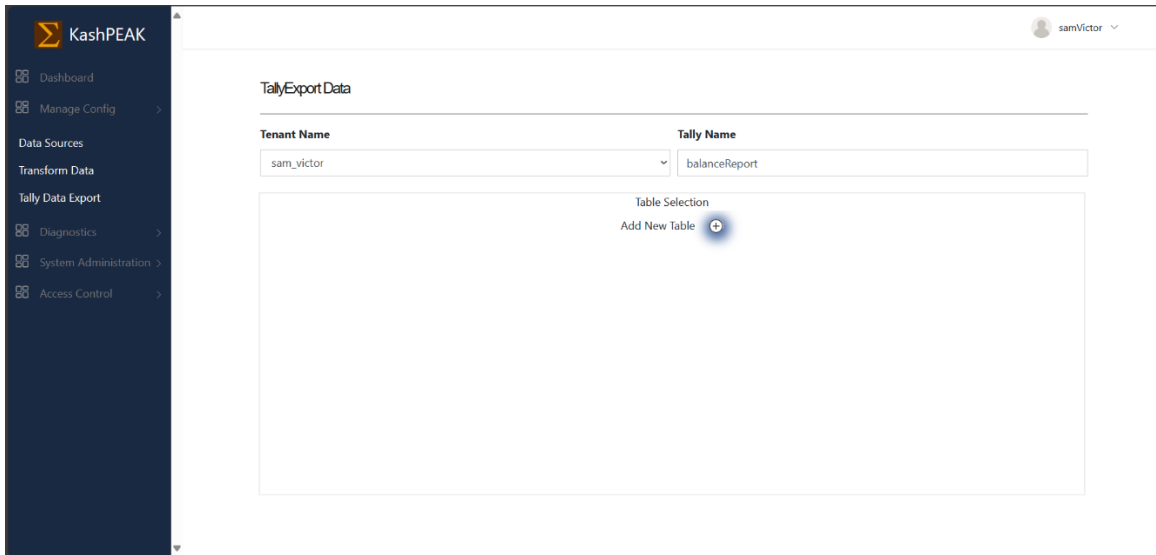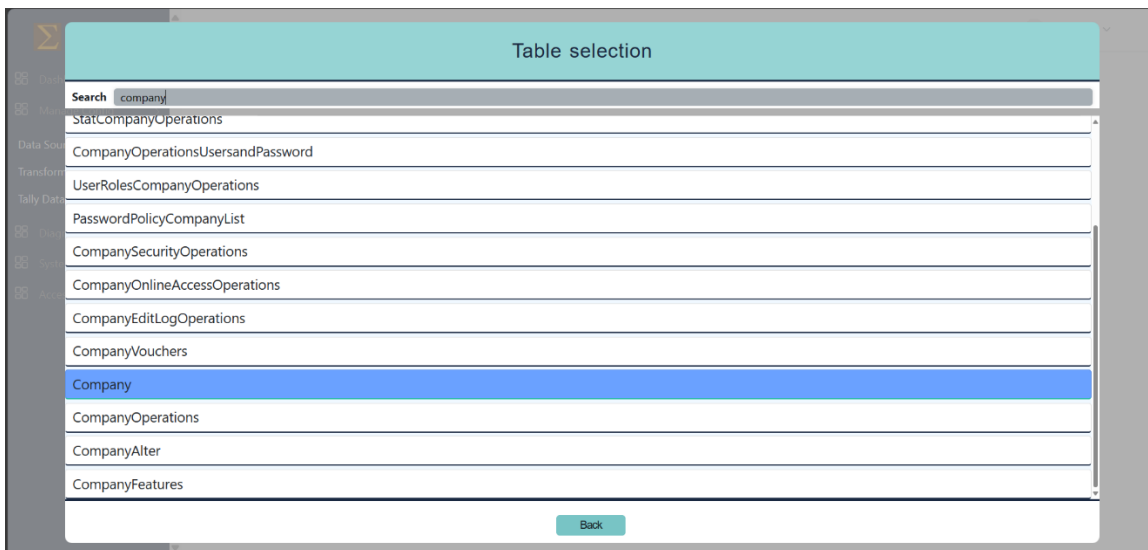


We can choose the tenant name and we can define the tally name which output name of the excel sheet.
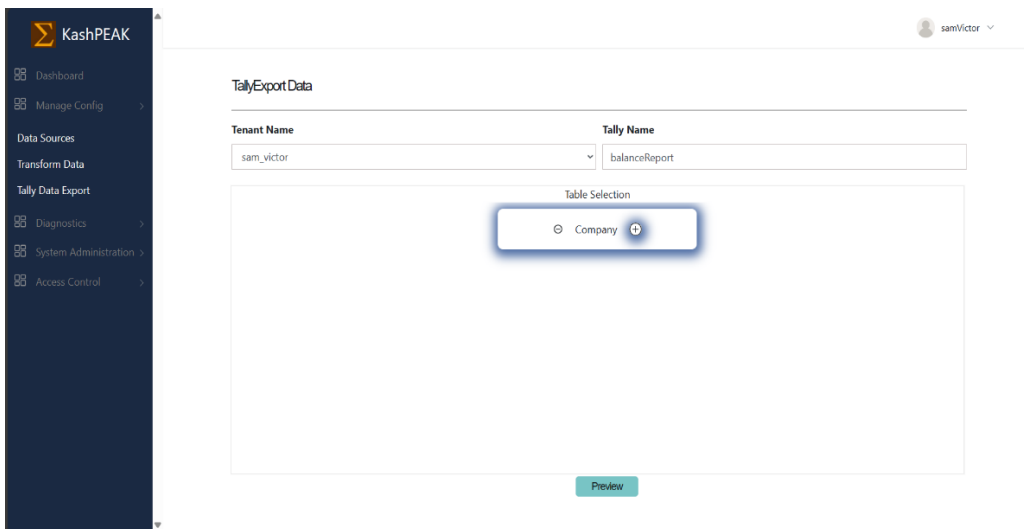
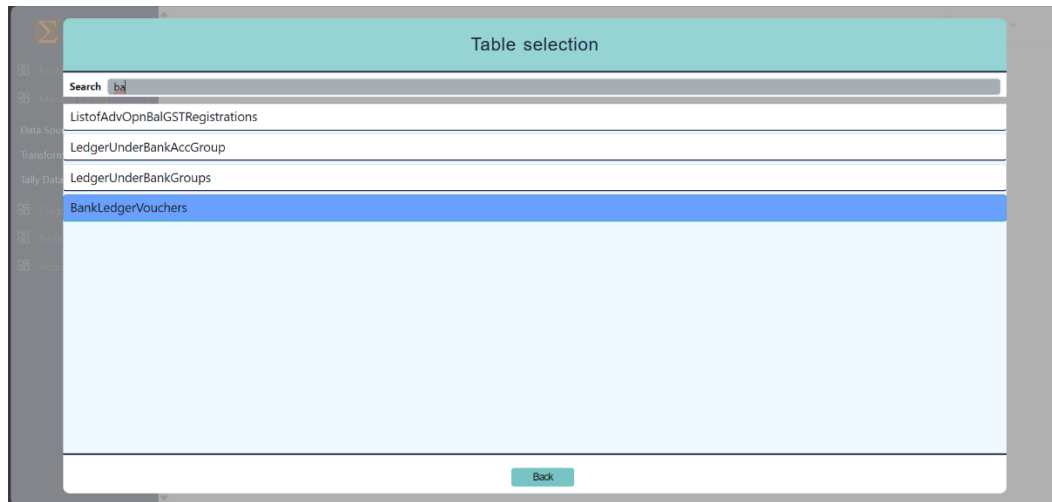| Column | Notes |
|---|---|
| Tenant Name | We can choose the tenant name |
| Tally name | We can define the tally name which is excel output |
| Table Selection | We need to choose the table , i.e which company in Tally |



- ➢ We need to choose which table which needs to be transferred to excel sheet .
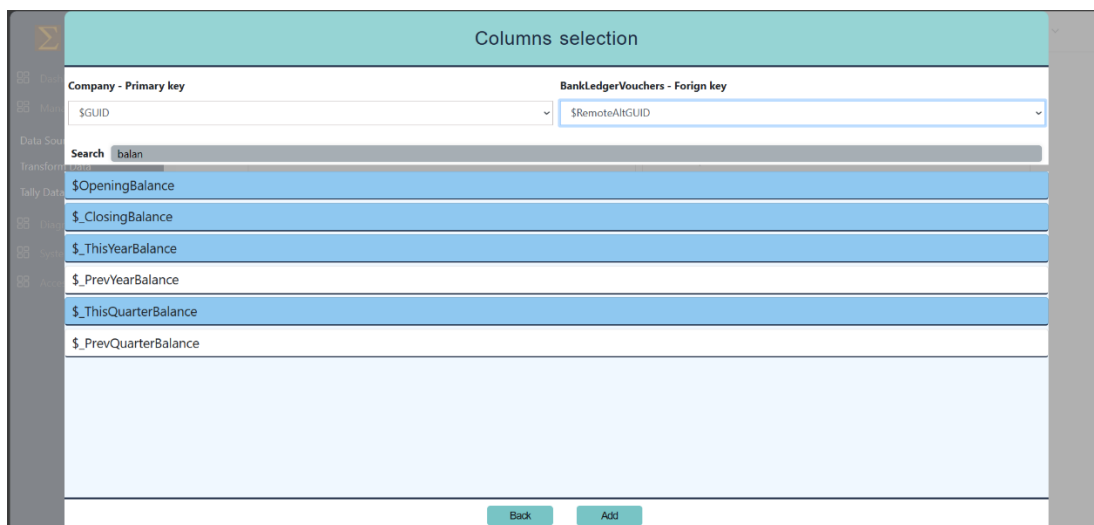- ➢ There will be multiple tables which we need to choose.

- After the Table selections, need to select which columns has to be transferred to excel.
- The selected columns will be highlighted in the blue color at the top.
- At the bottom add option will be given to add in to transfer list.
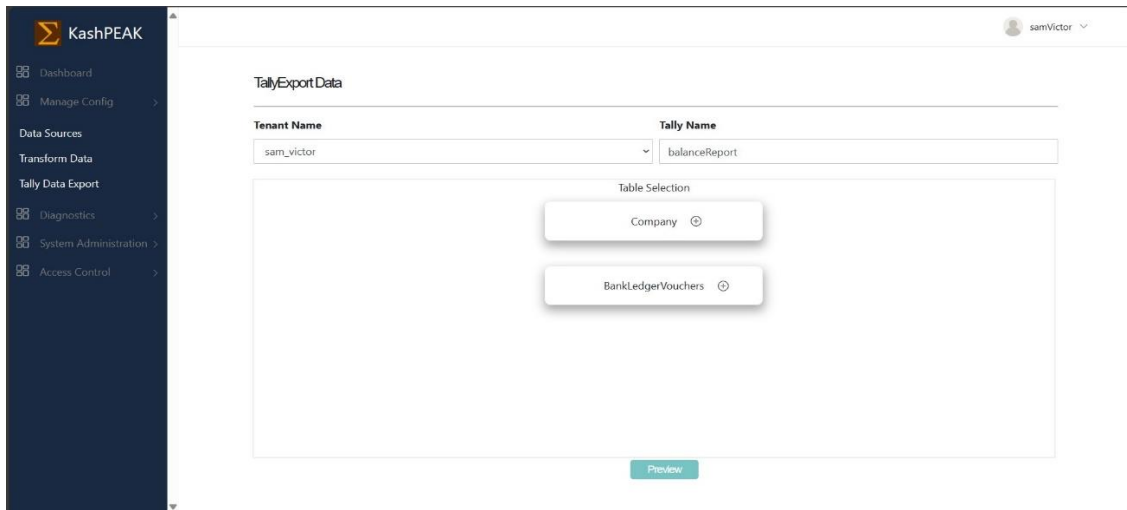


| Column | Notes |
|---|---|
| Tenant Name | We can choose the tenant name |
| Tally name | We can define the tally name which is excel output |
| Table Selection | We need to choose the table , i.e which company in Tally |
| Table Selection | Select table "Company" with selected columns highlighted in the blur color |
| Addition and subtraction symbol | We can add and delete the table |

- ➢ We need to choose other table which needs to be transferred to excel sheet.
- ➢ There will be multiple tables which we need to choose.
- ➢ There can be multiple tables which can be transferred.



- ➢ After the Table selections, need to select which columns has to be transferred to excel.
- ➢ The selected columns will be highlighted in the blue color at the top.
- ➢ At the bottom add option will be given to add in to transfer list.

| Column | Notes |
|---|---|
| Tenant Name | We can choose the tenant's name |
| Tally name | We can define the tally name which is excel output |
| Table Selection | We need to choose the table, i.e which company in Tally |
| Table Selection | Select table" Company" with selected columns highlighted in the blur color |
| Addition and subtraction symbol | We can add and delete the table |



> ➢ We can preview the column records , which will be transferred to excel.
> ➢ If there is change in records, we can go back and change the records and again we can view the preview the records
> ➢ The download option is given, where after validation we can click the download option and the records will be downloaded in excel format in the selected locations.