

iBPS 5.0 SP2

MASTER DATA MANAGEMENT

USER MANUAL



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About Master Data Management User Manual

The iBPS Master Data Management (MDM) User Manual provides steps to create, modify and save tables. The chapters of this manual are:

Chapter 1: Getting Started - This chapter discusses about the overview of MDM and how to access it.
Chapter 2: Manage Tables - This chapter discusses about adding/deleting/modifying/viewing tables.
Chapter 3: Import/Export Tables - This chapter discusses about importing/exporting tables to/from MDM.
Chapter 4: Data Operations - This chapter discusses about MDM data operations such as add data, modify data, delete data and view data.
Chapter 5: Upload Bulk Data in MDM – This chapter discusses about uploading multiple data simultaneously in MDM.
Chapter 6: Download & Upload Data - This chapter discusses about downloading existing data from MDM database to the user's local machine or upload data to the MDM database in CSV format.
Chapter 7: Maker Checker - This chapter discusses about sending requests for approval and approving/rejecting other user's requests.
Chapter 8: Action Items - This chapter discusses about tasks pending for actions to take upon.
Chapter 9: History - This chapter discusses about generating table history.
Chapter 10: Locks on Approved Tables - This chapter discusses about locked table data and table definition.
Chapter 11: List of Abbreviations - This chapter contains a list of all the abbreviations used in this document.

1

Getting Started

This chapter consists of:

- Introduction to MDM
- Accessing MDM

1.1 Introduction to MDM

Master Data Management System (MDM) is a platform-independent web-based tool, using which client can perform database management operations on their cabinets. Using this tool user can Add, Modify the Tables and their Fields based on their rights. This tool can also enable the users to perform data entry and modification operations in the Tables.

MDM can be used from anywhere by the supervisor users to perform the Table centric operations using their web browsers, such as Internet Explorer or Mozilla Firefox. It has an easy to use interface, which enables the users with minimal database level knowledge to create and work with the databases and perform the commonly used CRUD (Create Read Update Delete) operations on tables and the data.

Key Features of the Master Data Management System:

- Web-based interface for Table Management
- Support for Various Databases
- Support for Table Data operations, such as Insert, Modify and Delete records
- Support for DDL operations, such as Insert, Modify and Delete Fields
- Maker Checker Concept
- Audit Log of Operations maintained
- Revert Operations capability

1.2 Accessing MDM

To work with MDM, the user needs to log in to iBPS OmniApp.

1. Launch the login screen of OmniApp.

NOTE:

Refer to OmniApp User Manual to learn about logging in to OmniApp.

2. Enter login credentials.
3. Click on **Login** to start the session.

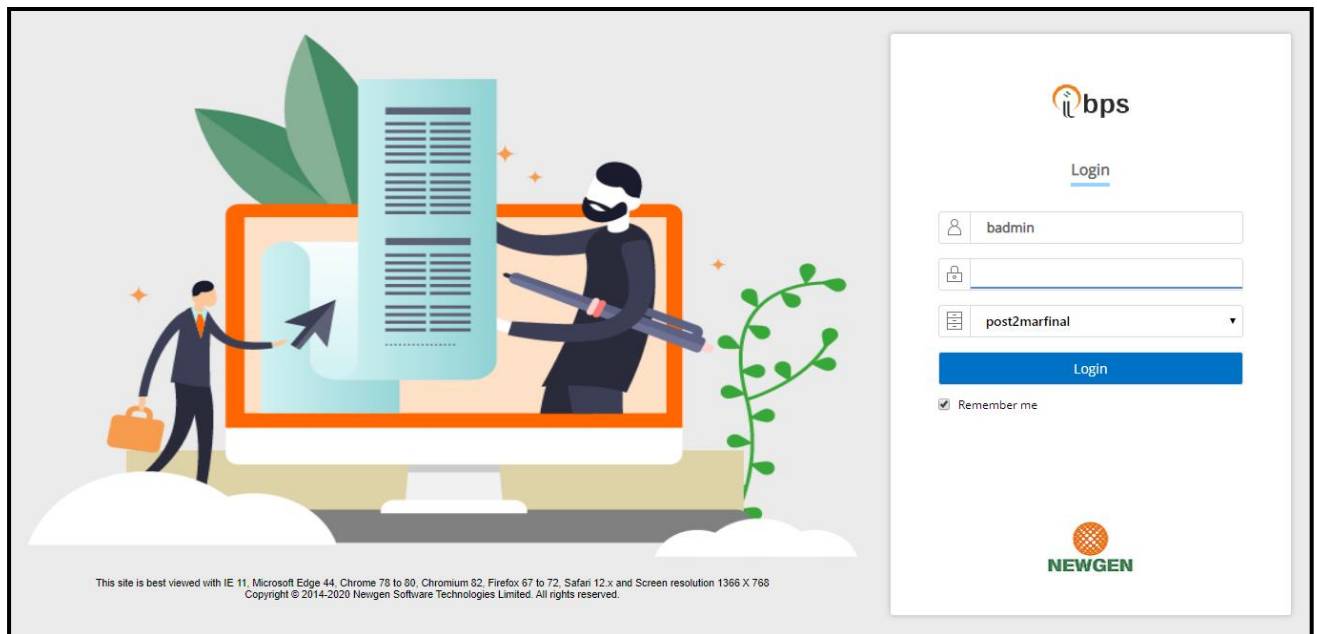


Figure 1.1

- After the successful cabinet login, the home page of the OmniApp screen appears if MDM is not the default view.

NOTE:

If MDM is the default view then the home screen of MDM appears.

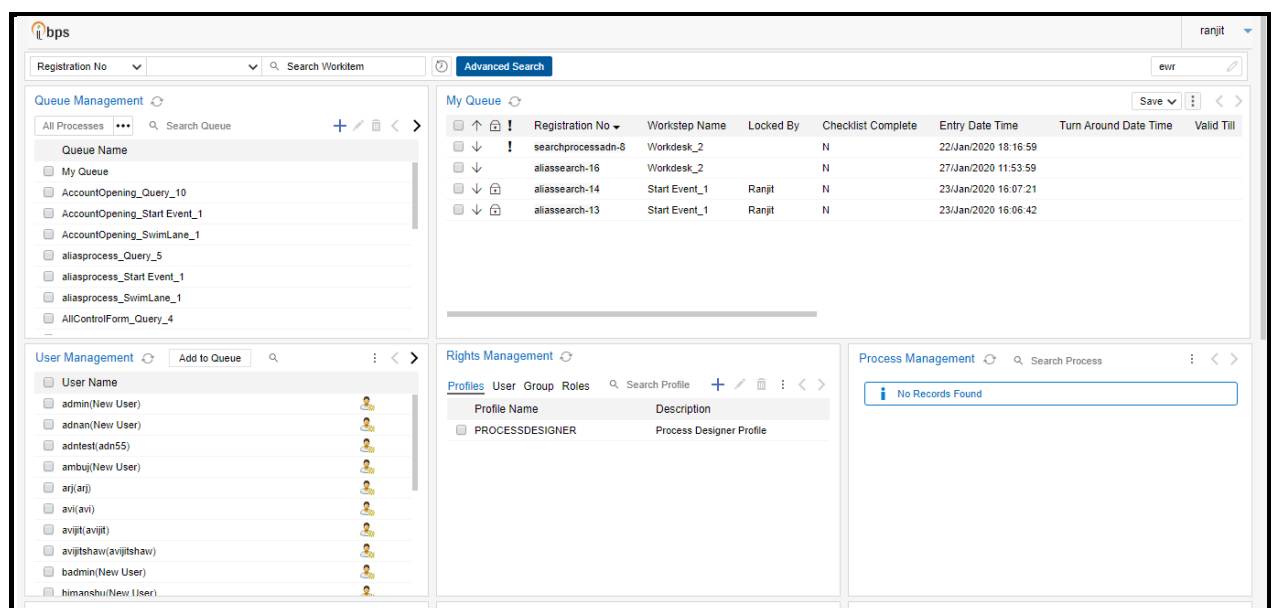


Figure 1.2

- i. To access MDM from OmniApp, select view as **MDM** from the **User's Settings** list.

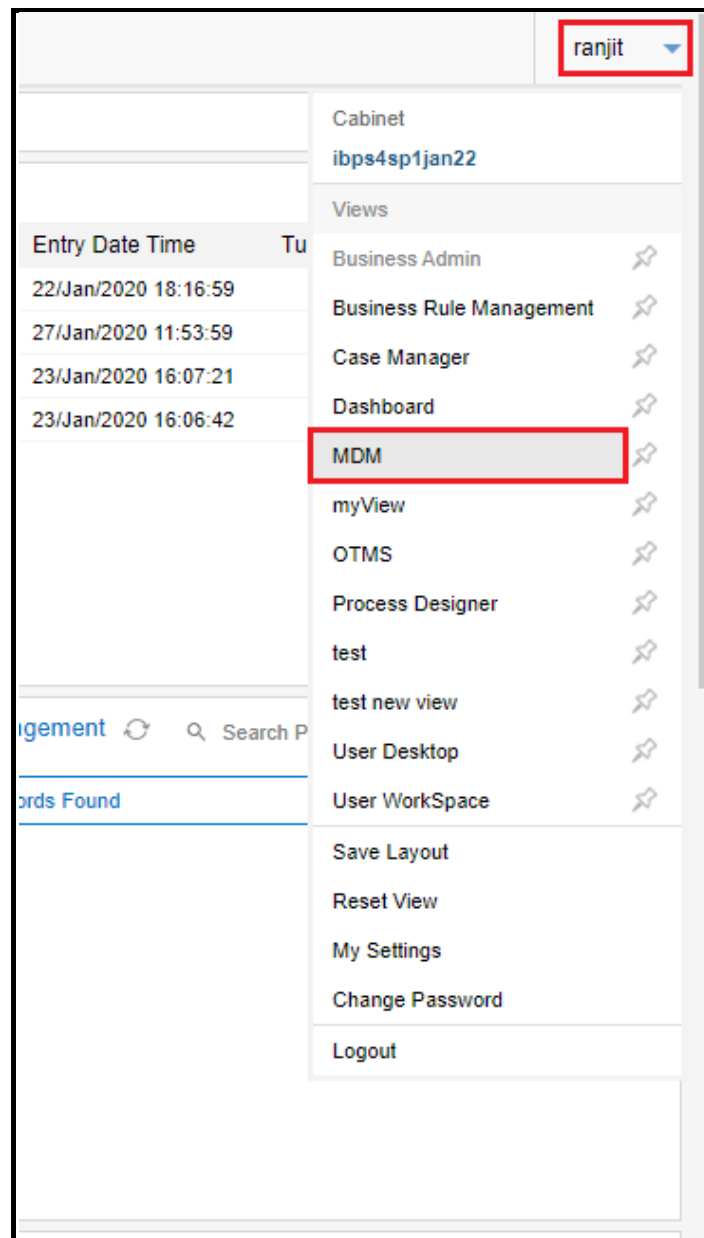


Figure 1.3

ii. MDM home screen appears.

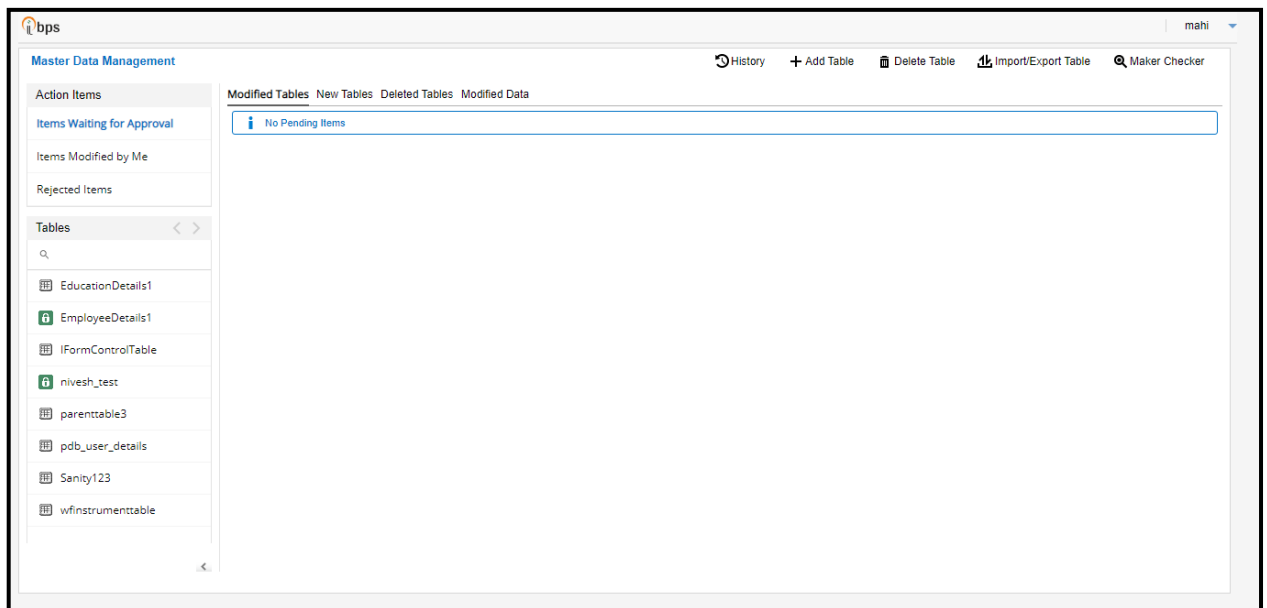


Figure 1.4

iii. By default, 'Items Waiting for Approval' of the logged in user is displayed, listing all the items pending for approval will be displayed. (Maker/Checker concept can be applied to activities performed through MDM).

Further in detail, on the home page, '**Items Waiting for Approval**' is classified into different tabs based on the action performed on the database. Following tabs are present on the screen and respective pending items are displayed under each of them.

- Modified Tables
- New Tables
- Deleted Tables
- Modified Data

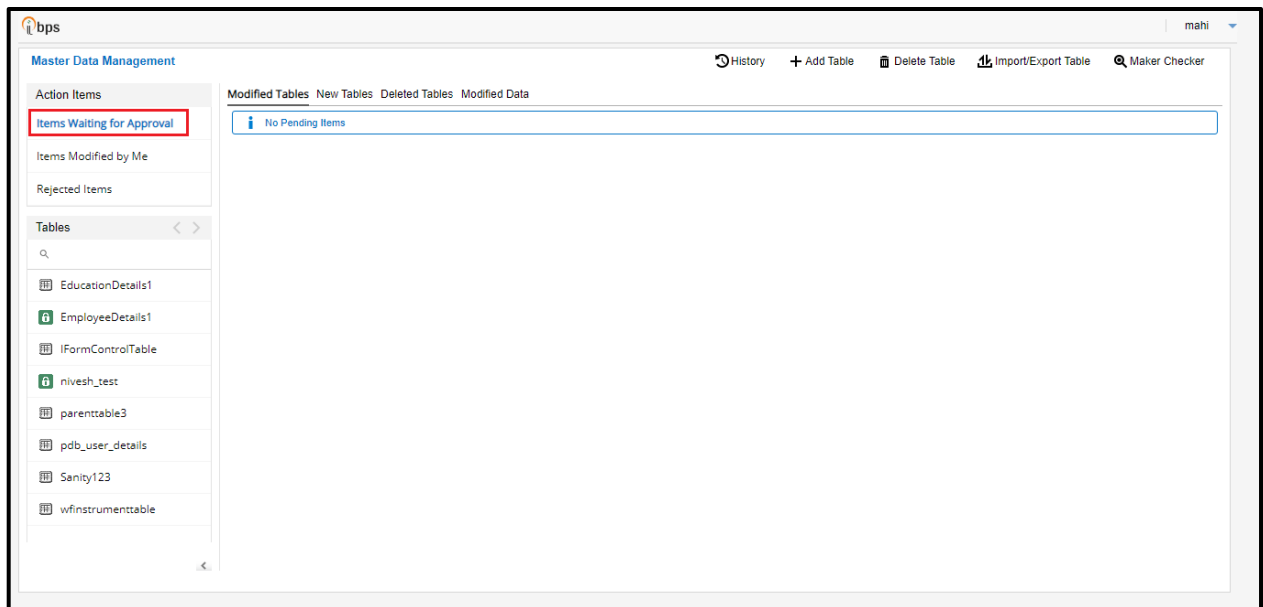


Figure 1.5

Tables:

1. **Modified Tables** - It will list all the tables which are modified by a maker and are pending for checker approval.
2. **New Tables** - It will list all the new created tables pending for checker approval.
3. **Deleted Tables** - It will list all deleted tables pending for checker approval.
4. **Modified Data** - It will list all the tables for which data is being modified and are pending for checker approval.

In the Action Items tab, the second list is “**Items Modified by Me**” list. It will list all the items which were modified/acted upon by the logged-in user. User will have the liberty to call back the items modified/acted upon by him. Once committed, these items will be sent for the approval process.

Further in detail, ‘**Item Modified by Me**’ is classified into different tabs based on the action performed on the database. Following tabs are present on the screen and respective pending items are displayed under each of them.

- **Modified Tables** - It will list all the tables which are modified by the logged-in user.
- **New Tables** - It will list all the tables which are created by the logged-in user.

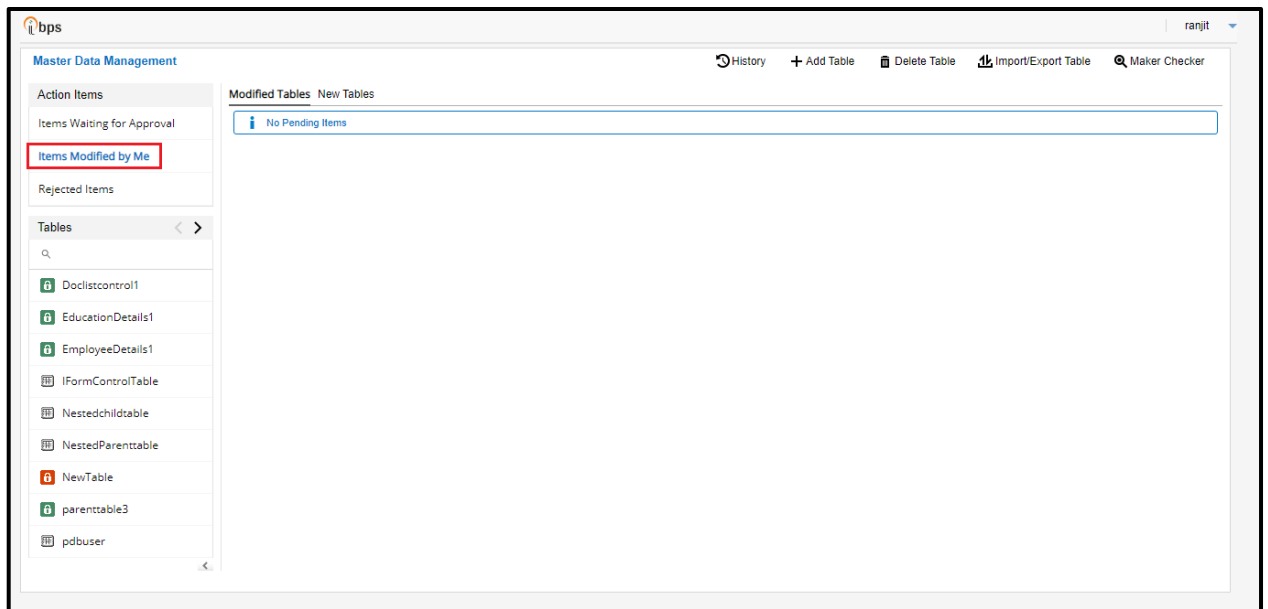


Figure 1.6

2

Manage Tables

This chapter consists of:

- Add Tables
- Modify Table
- Delete Table
- View Table

2.1 Add Tables

Master Data Management provides a user with a capability to create a table through GUI assigning specific characteristic to each of the fields/columns.

To Create a Table:

1. Login to **Master Data Management**.
2. Click on **Add Table** from the menu bar.

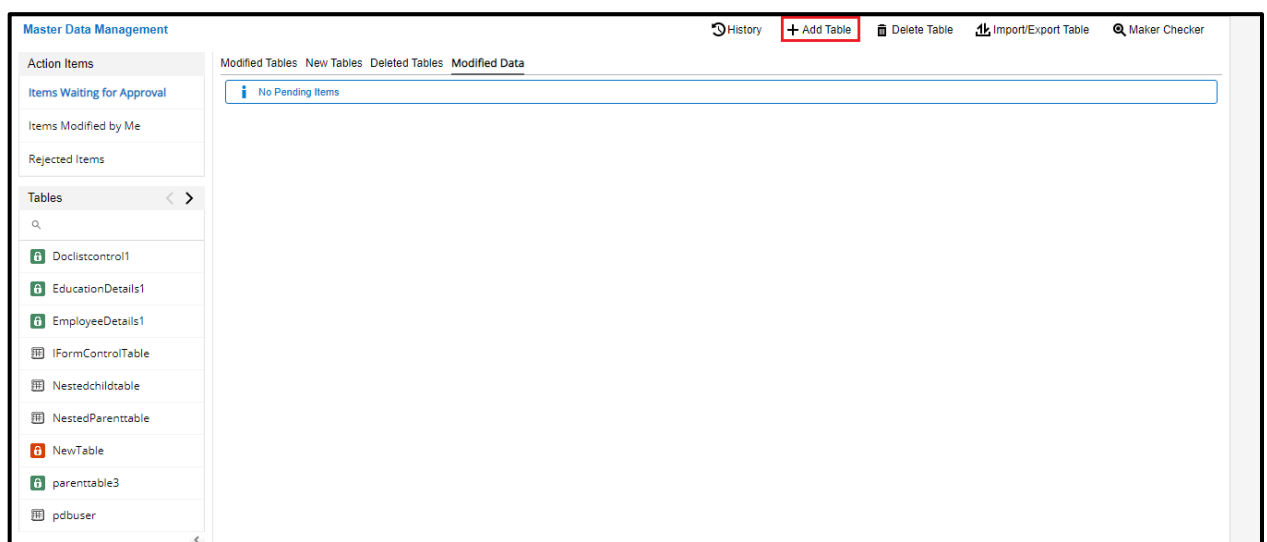


Figure 2.1

3. Table Name dialog box appears.
4. Enter **Table Name** and **Description** in the Table Name and Description textboxes respectively.

The 'Table Name' dialog box is shown. It has a title bar with a close button. Inside, there are two text input fields. The first is labeled 'Table Name *' and contains the text 'Schools List'. The second is labeled 'Description' and also contains the text 'Schools List'. At the bottom right, there is a blue 'Next' button.

Figure 2.2

- Click on **Next** to display the table definition page. At this point, the user still has the liberty to rename the table.

Definition | Index/Keys

Table Name: Schools List [Rename Table](#)

Description: Schools List

Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/>	Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
--------------------------	------------	-------------	------------	--------------	-----------	--------	----------	--------	--------	---------

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add **Clear**

Create

Figure 2.3

- Create table fields/columns with required characteristics.
- In the bottom half of the window, enter the field details.
- Click on **Add** to add the values in the form to the list of the column in the upper half of the table definition interface.
 - Click on **Clear** if you wish to clear the values in the form.
- System displays added columns in the above section as shown below:

Definition | Index/Keys

Table Name: Schools List [Rename Table](#)

Description: Schools List

Portal Table ☐

Foreign Key Generate Index Primary Key ☐

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> School Name		String	255	N	N	N	N	N	

Add Column

Field Name *

Field Type String

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add **Clear**

Create

Figure 2.4

- Select checkbox against the column and click on **Primary Key** to make the selected field as a primary key.

Definition | Index/Keys

Table Name: Schools List [Rename Table](#)

Description: Schools List

Portal Table ☐

Foreign Key Generate Index **Primary Key** ☐

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> School Name		String	255	N	N	N	N	N	
<input checked="" type="checkbox"/> School ID		Integer	255	N	N	N	N	N	
<input type="checkbox"/> School Address		String	255	N	N	N	N	N	

Add Column

Field Name *

Field Type Integer

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add **Clear**

Create

Figure 2.5

- Finally, click on **Create** to add the table.

Definition | Index/Keys

Table Name: Schools List [Rename Table](#)
Description: Schools List
Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> School Name		String	255	N	N	N	N	N	
<input type="checkbox"/> School ID		Integer	255	N	N	N	N	N	
<input type="checkbox"/> School Address		String	255	N	N	N	N	N	

Add Column

Field Name *
Field Type
String

Constraints
☐ Identity ☐ Unique ☐ Mandatory

Default Value
Field Length *
255
Field Alias

Custom Picklist
☐

Picklist

☐ Allow Searching
☐ Read Only
☐ Trim Data

☐ Non Modifiable
☐ Hidden

Add Clear

Create

Figure 2.6

2.1.1 Field Name

Field Name is used to specify the Column Name of the selected table.

2.1.2 Field Type

Field Type is used to specify the Data Type for the added column. Available field types are as follows:-

• String	• Integer	• Long
• Float	• Date	• ShortDate
• Ntext	• Text	• Nvarchar(max)

2.1.3 Constraints

Constraints are used to specify the constraints (Identity/Unique/Mandatory).

Identity – If the user makes the column as **Identity**, the system automatically takes the value like 1, 2, 3, and so on. This feature is applicable only for **Integer Field Type**.

Add Column

Field Name *

Field Type

Constraints ☒ Identity ☐ Unique ☐ Mandatory

Default Value

Seed Value *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Figure 2.7

Unique – If the user selects checkbox against **Unique**, the system does not allow an actor to enter a duplicate value in the selected column and take NULL in case the user does not enter any value in the selected column.

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☒ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Figure 2.8

Mandatory - If the user selects checkbox against **Mandatory**, the system makes the selected column as mandatory and does not allow the user to leave the selected column empty.

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☒ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Figure 2.9

2.1.4 Default Value

The default value is used to specify a default value of the field in the **Default Value** textbox (if required).

2.1.5 Field Length

Field Length is used to specify the field length if the field type is selected as Text type.

2.1.6 Field Alias

Field Alias is used to give a temporary name to a column in the table. Basically, aliases are created to make column names more readable. If the user enters an alias name, the same is displayed in the Data Tab instead of the original field name.

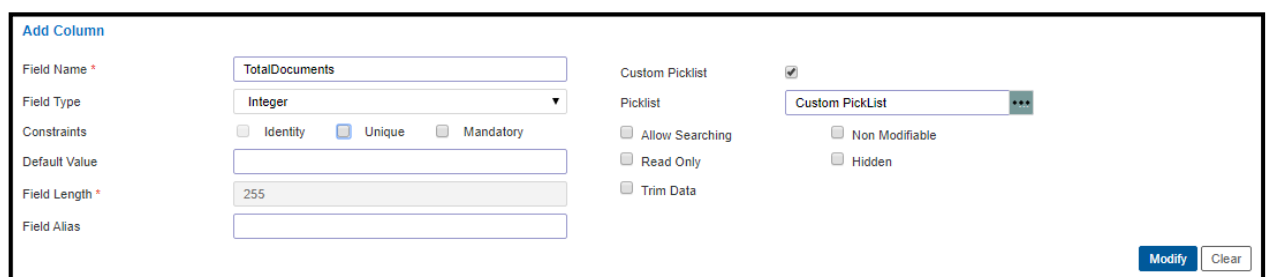
2.1.7 Pick list

Custom Picklist option allows user to have multiple selections and add multiple rows for the selected column while adding data in the table.

Multiple Selections allow the user to select multiple values from the picklist. The multiple selected values are stored in the database separated by a separator provided. In case of Multiple selections, user can choose multiple values for the field and on Click of add, multiple rows depending on the multiple values will be added to the table (keeping rest of the columns same).

Multiple Selection Functionality:

1. Select checkbox against **Custom Picklist**.



The screenshot shows the 'Add Column' dialog box with the following fields and options:

- Field Name ***: TotalDocuments
- Field Type**: Integer (dropdown menu)
- Constraints**: Identity (checkbox), Unique (checkbox), Mandatory (checkbox)
- Default Value**: (empty text box)
- Field Length ***: 255
- Field Alias**: (empty text box)
- Custom Picklist**: (checked checkbox)
- Picklist**: Custom PickList (dropdown menu with a three-dot icon)
- Allow Searching**: (checkbox)
- Read Only**: (checkbox)
- Trim Data**: (checkbox)
- Non Modifiable**: (checkbox)
- Hidden**: (checkbox)
- Buttons**: Modify, Clear

Figure 2.10

2. Click on  icon. Custom Picklist Definition dialog box appears.
3. Enter the **Picklist Query**.

NOTE:

Table “**pdbuser**” is already present in the cabinet with user details.

4. Select the checkbox against **Multiple Selection** and enter separator as (,).
5. To manually enter multiple values, select the checkbox against **Multiple Value** and enter separator as (,).
6. Select **Disable Manual Input** checkbox to prevent the manual entry of data.
7. Click on **Go**.

Custom Picklist Definition

Here you can define the Custom PickList Definition and mapping of input fields and the output fields.

Picklist Query *

☐ Add Multiple Rows
☒ Multiple Selection
☒ Multiple Values
 Selection Separator
☐ Disable Manual Input

Picklist Input Mapping

Picklist Input	Mapped Field/Value
----------------	--------------------

Figure 2.11

8. In the **Picklist Input Mapping** section, **Picklist Input** and **Mapped Field/Value** appears.
9. Click on **Save** to save the created Picklist Input Mapping.

Custom Picklist Definition

Here you can define the Custom PickList Definition and mapping of input fields and the output fields.

Picklist Query *

☐ Add Multiple Rows
☒ Multiple Selection
☒ Multiple Values
 Selection Separator
☐ Disable Manual Input

Picklist Input Mapping

Picklist Input	Mapped Field/Value
userIndex	<input type="text"/>

Figure 2.12

10. Add other columns.
11. Generate the primary key and click on **Create**.
12. Click on the created table, listed in **Tables** list.

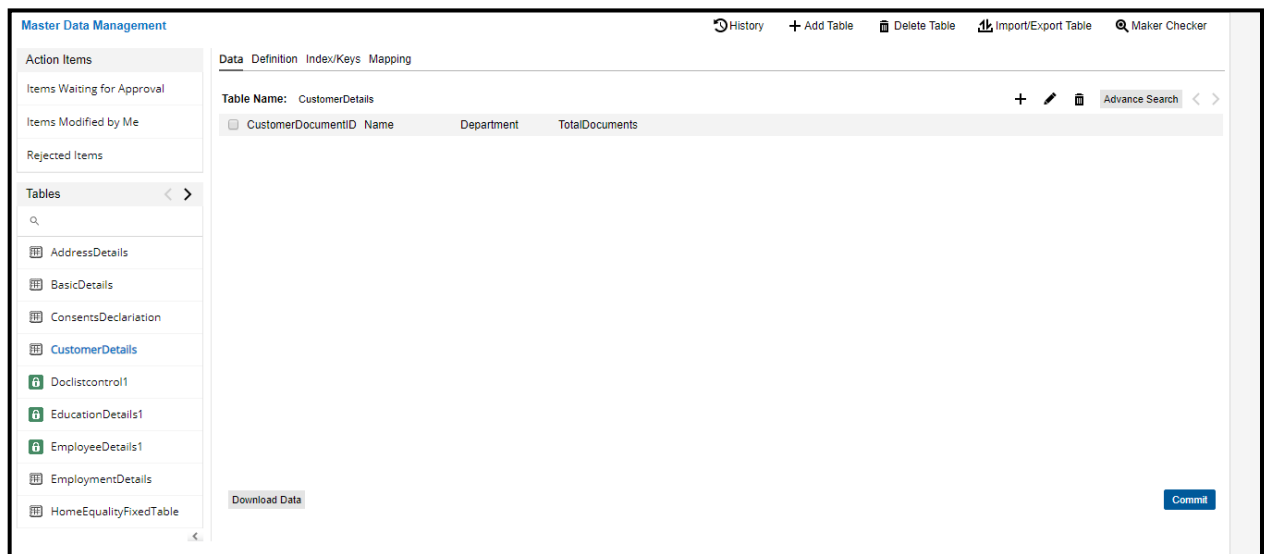


Figure 2.13

13. Go to **Data** tab.
14. Click on **Add**.

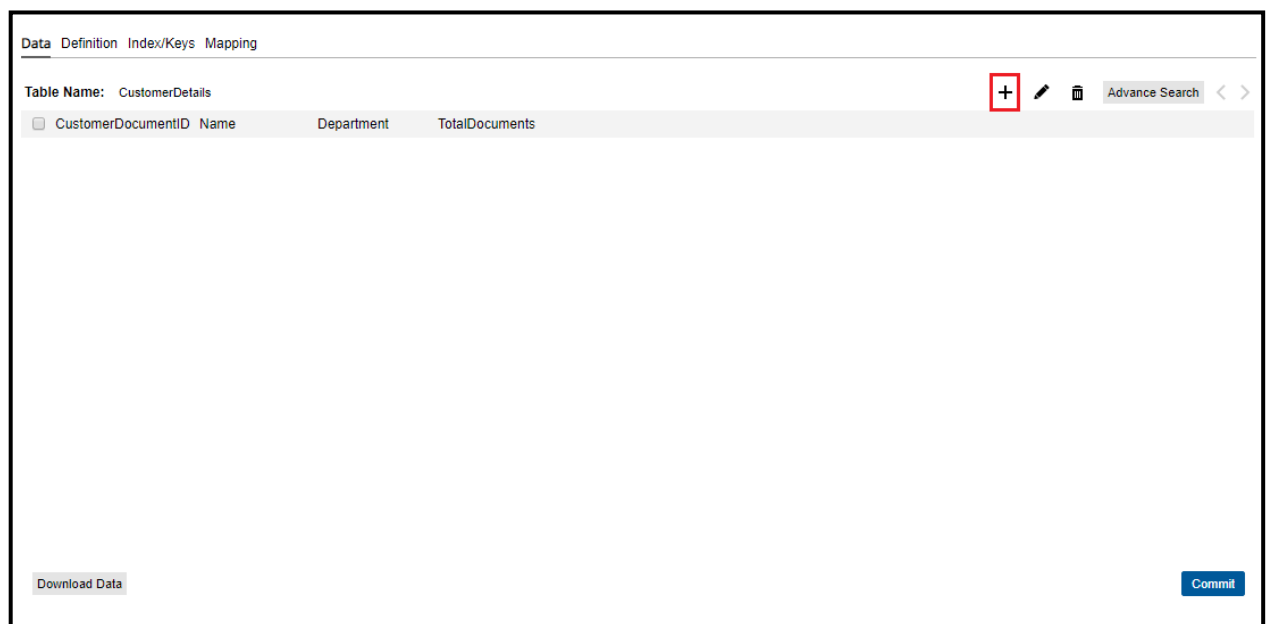
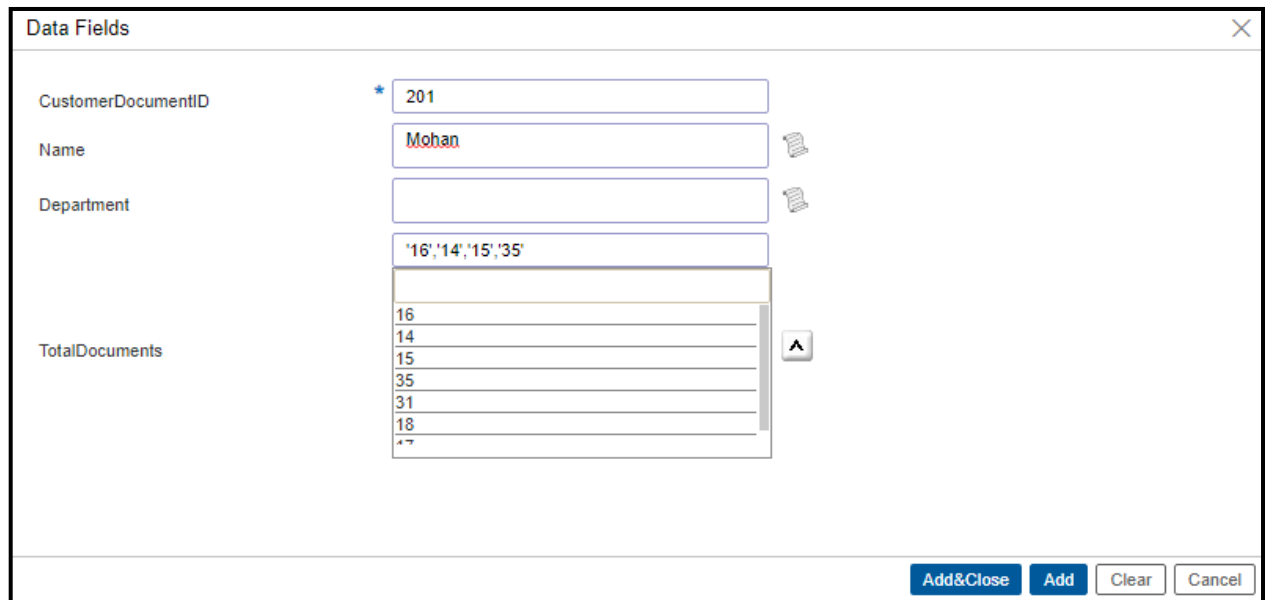


Figure 2.14

15. Data Fields dialog box appears.
16. A dropdown list is displayed against Number column.
17. Click on the dropdown arrow icon and select data one by one.
18. The system takes the values separated by comma (,).



Data Fields

CustomerDocumentID * 201

Name Mohan

Department

TotalDocuments '16','14','15','35'

16
14
15
35
31
18
47

Add&Close Add Clear Cancel

Figure 2.15

19. Click on
 - **Add** to add the entered data and continue adding more data.
 - **Add&Close** to add the entered data and close the dialog box.
 - Clear to clear the entered data.
 - Cancel to close the dialog box without saving the data.
20. The system displays added values in a single row as shown below:

Data Definition Index/Keys Mapping			
Table Name: CustomerDetails			
CustomerDocumentID	Name	Department	TotalDocuments
201	Mohan		16, 14, 15, 35

Download Data

Commit

Figure 2.16

Add Multiple Rows: Add Multiple Rows allows user to insert multiple rows at a time from the custom picklist. When this option is checked, the user can select multiple values from the defined custom picklist which will be shown in the textbox as comma-separated values. On Commit the values will be inserted in separate rows.

Multiple Rows Functionality:

1. Select column and checkbox against **Custom Picklist**.

Master Data Management

History + Add Table Delete Table Import/Export Table Maker Checker

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table

	Field Name	Field Type	Length	Nullable	Identity	Unique	Mandatory	Foreign Key	Generate Index	Primary Key
<input type="checkbox"/>	CustID	Integer	255	Y	N	N	N	N	N	N
<input type="checkbox"/>	Salary	Integer	255	N	N	N	N	N	N	N
<input type="checkbox"/>	Address	String	255	N	N	N	N	N	N	N
<input type="checkbox"/>	DateOfBirth	Date	255	N	N	N	N	N	N	N
<input type="checkbox"/>	EmployeeBand	String	255	N	N	N	N	N	N	N

Add Column

Field Name * Account_Security_Level

Field Type String

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length * 255

Field Alias

Custom Picklist ☒

Picklist Custom PickList

☐ Allow Searching ☐ Non Modifiable ☐ Read Only ☐ Hidden ☐ Trim Data

Add Clear

Commit

Figure 2.17

2. Click on  icon. Custom Picklist Definition dialog box appears.
3. Enter the **Picklist Query**.

NOTE:

Table “**pdbuser**” is already present in the cabinet with user details.

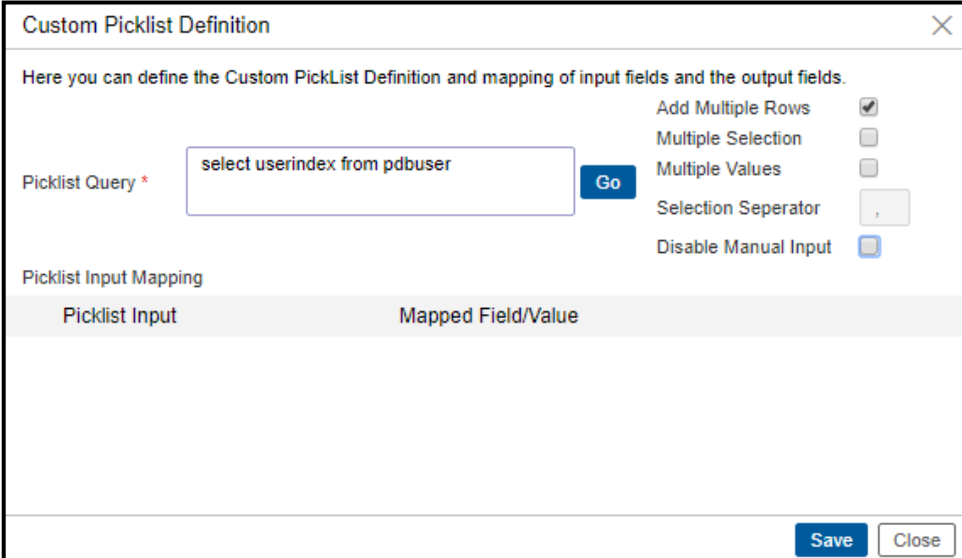


Figure 2.18

4. Select the checkbox against **Add Multiple Rows** and enter separator as (,).
5. Select **Disable Manual Input** checkbox to prevent the manual entry of data.
6. Click on **Go** and then click on **Save**.
7. Add other columns.
8. Generate primary key and click on **Create**.
9. Open the table and go to the **Data** tab.

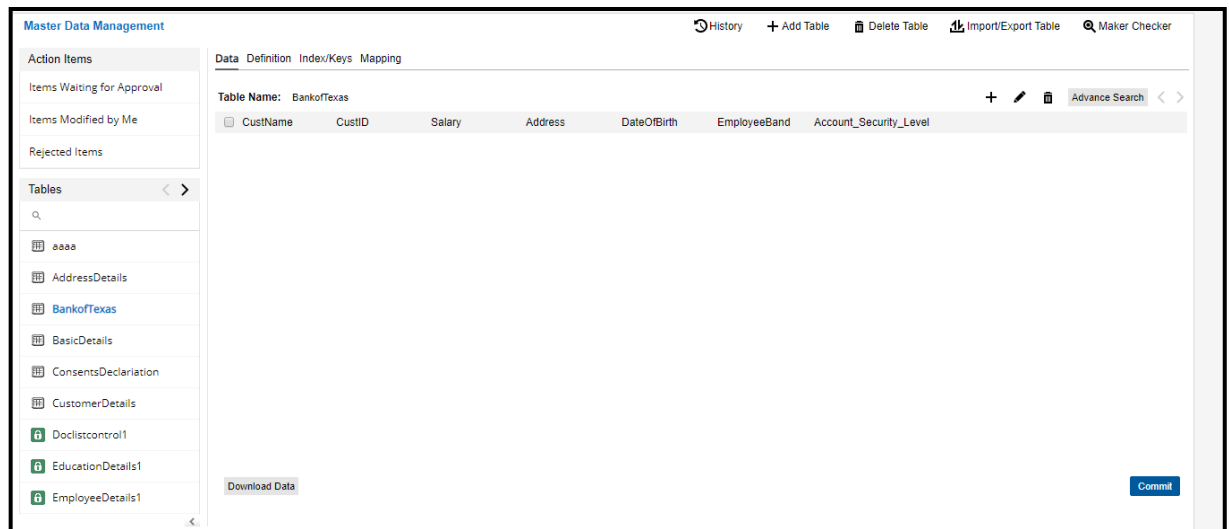


Figure 2.19

10. Click on **+** (Add Data).
11. Click on the dropdown arrow icon and select data one by one.
12. The system takes the values separated by comma (,).

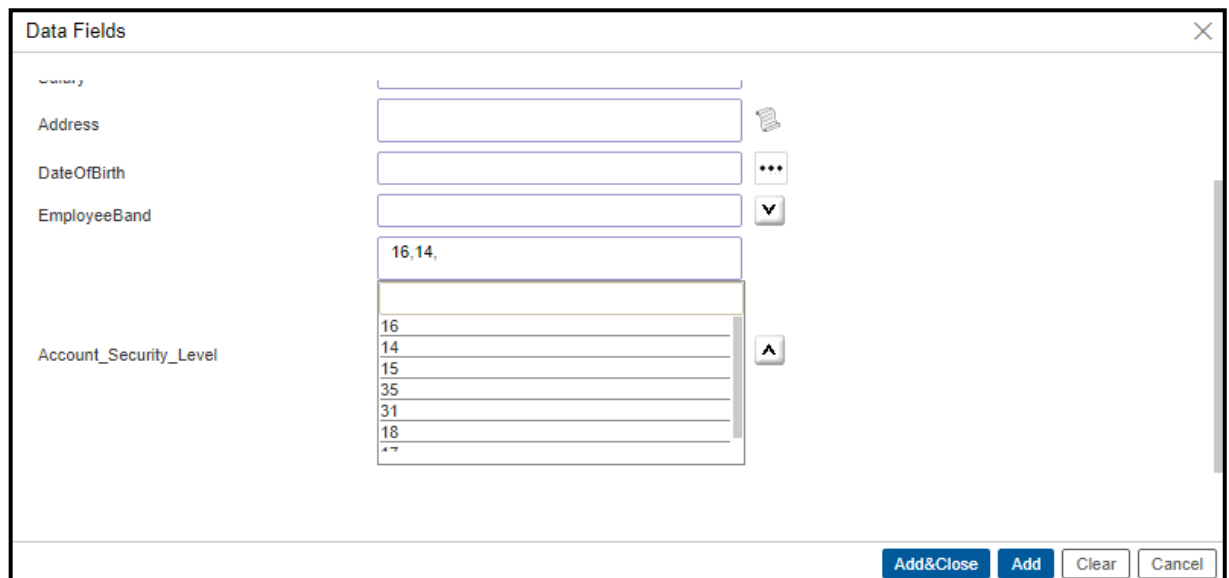


Figure 2.20

13. Click on:
 - **Add** to add the entered data and continue adding more data.
 - **Add&Close** to add the entered data and close the dialog box.
 - **Clear** to clear the entered data.
 - **Cancel** to close the dialog box without saving the data.

14. System displays added values in multiple individual rows as shown below:

Data

Definition

Index/Keys

Mapping

Table Name: BankoTexas

+

Advance Search

<

>

<input type="checkbox"/>	CustName	CustID	Salary	Address	DateOfBirth	EmployeeBand	Account_Security_Level
<input type="checkbox"/>	admin	21					16
<input type="checkbox"/>	adnan	14					14

Download Data

Commit

Figure 2.21

NOTE:

If the column is defined as a picklist type column, then it is displayed as a dropdown containing the values returned by the picklist query.

2.1.8 Allow Searching

This feature is used to allow searching on the added column.

If the user selects checkbox against “**Allow Searching**” during data definition a **Search** bar is added next to the table name.

Definition | Index/Keys

Table Name: CustomersList [Rename Table](#)

Description: List of customers.

Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> Name		String	255	N	N	N	Y	N	
<input type="checkbox"/> Age		Integer	255	N	N	N	Y	N	
<input type="checkbox"/> DoB		Date	255	N	N	N	Y	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☒ Allow Searching

☐ Non Modifiable

☐ Read Only

☐ Hidden

☐ Trim Data

Add Clear

After enabling “**Allow Searching**”, a search bar appears in the Data tab when you open the table.

Data | Definition | Index/Keys | Mapping

Table Name: CustomersList

Search on

+ Advance Search < >

<input type="checkbox"/> Name	Age	DoB	Address
-------------------------------	-----	-----	---------

Figure 2.22

2.1.9 Non Modifiable

This feature is used to make the added column as non-modifiable.

If the user selects checkbox against **Non Modifiable**, the system does not allow the user to modify the added data in the selected column.

To Make a Column as Non Modifiable:

1. Open a **Table** and go to **Definition** tab.
2. Click on a Field Name to modify it. Or, add a new column.
3. In the Add Column section, select **Non Modifiable** checkbox.
4. Click on **Modify**. Add appears in place of modify when adding a new column.
5. Click on **Commit**.

The screenshot shows the 'Definition' tab for a table named 'CustomersList'. The 'Add Column' section is active, displaying a form to add a new column. The 'Field Name' is 'Address', 'Field Type' is 'String', and 'Field Length' is '255'. The 'Non Modifiable' checkbox is checked and highlighted with a red box. Other options like 'Identity', 'Unique', 'Mandatory', 'Allow Searching', 'Read Only', 'Trim Data', and 'Hidden' are also visible. The 'Modify' button is at the bottom right.

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
Name		String	255	N	N	N	Y	N	
Age		Integer	255	Y	N	N	Y	N	
DoB		Date	255	N	N	N	Y	N	
Address		String	255	N	N	N	Y	N	

Figure 2.23

6. Open the **added/modified** table.
7. Go to **Data** Tab.
8. **Modify Data** in the column. Notice that the column that was made non-modifiable opens in read-only mode.

Example: Consider Address as a Non Modifiable field. The Address field data appears as non-editable in the below screen.

The screenshot shows a 'Data Fields' dialog box with a close button (X) in the top right corner. It contains four input fields: 'Name' with the value 'Mohan', 'Age' with the value '33' and a blue asterisk to its left, 'DoB' which is empty, and 'Address' with the value 'Delhi'. To the right of the 'Name' and 'Address' fields are icons representing a document with a pencil. To the right of the 'DoB' field is a three-dot menu icon. At the bottom right of the dialog are two buttons: 'Modify' (highlighted in blue) and 'Cancel'.

Figure 2.24

2.1.10 Read Only

This feature is used to make a column as read-only.

If the user selects checkbox against **Read Only**, the system displays the selected column as Read Only, i.e., no data can be entered here.

To Make a Column Read Only:

1. Select **Table**.
2. Go to **Definition** Tab.
3. In Column Properties, select checkbox against **Read Only**.
4. You can provide a default value against the column if required. It will appear in read-only mode during data entry.
5. Click on **Add/Modify**.
6. Click on **Commit**.

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table ☐

Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Salary		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	

Add Column

Field Name * IntroducesBy

Field Type String

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length * 255

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching

☒ Read Only

☐ Trim Data

☐ Non Modifiable

☐ Hidden

Add Clear

Commit

Figure 2.25

7. Select the **added/modified** table.
8. Go to **Data** tab.
9. **Add/Modify Data** in the Column.
10. The system displays the selected column as read-only and do not allow data entry in that column.

Data Fields

CustName

CustID * 2

Salary

Address

DateOfBirth

EmployeeBand

Account_Security_Level

IntroducedBy Relationship Manager

Add&Close Add Clear Cancel

Figure 2.26

2.1.11 Hidden

This feature is used to make a column hidden.

If the user selects checkbox against **Hidden**, the system does not display the selected column.

To Make Column Hidden:

1. Select **Table**.
2. Go to **Definition** Tab.
3. In Column Properties, select checkbox against **Hidden**.
4. Click on **Add/Modify**.
5. Click on **Commit**.

The screenshot shows the 'Definition' tab for a table named 'CustomerDetails'. The 'Table Alias Name' is also 'CustomerDetails'. The 'Description' is 'Customer Details'. The 'Portal Table' checkbox is unchecked. The 'Field Name' column is selected. The 'Field Alias' column is empty. The 'Field Type' column is 'Integer'. The 'Field Length' column is '255'. The 'Mandatory' column is 'Y'. The 'Unique' column is 'N'. The 'Identity' column is 'N'. The 'Filter' column is 'N'. The 'Hidden' column is 'N'. The 'Default' column is empty. The 'Add Column' section is visible, showing the 'Field Name' as 'Nationality', 'Field Type' as 'String', and 'Field Length' as '255'. The 'Hidden' checkbox is checked. The 'Commit' button is visible.

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> DocumentID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Name		Text	255	N	N	N	N	N	
<input type="checkbox"/> Department		Text	255	N	N	N	N	N	
<input type="checkbox"/> TotalDocuments		Integer	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable ☒ Hidden

☐ Read Only ☐ Trim Data

Figure 2.27

6. Select **added/modified** table.
7. Go to **Data** Tab.
8. The system does not display the selected column. For example, in the below screenshot, the system does not display column "Nationality" which has been made as hidden.

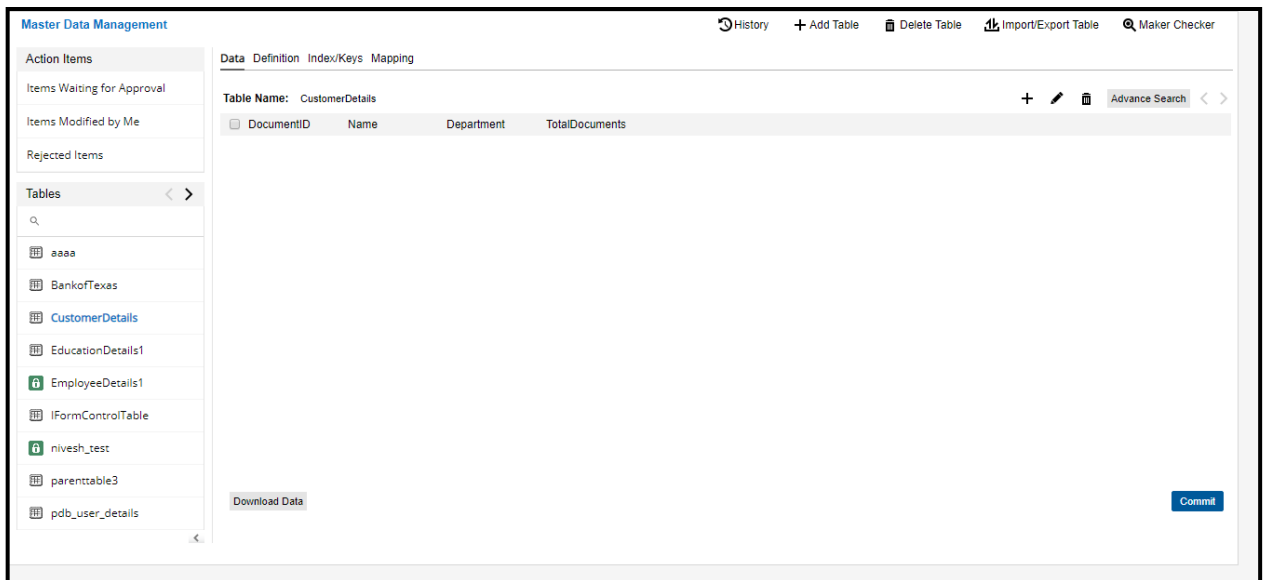


Figure 2.28

2.1.12 Trim Data

This feature is used to remove all the spaces, enter, newline and carriage return characters before insertion. Select **Trim Data** checkbox to enable this feature.

The screenshot shows the 'Add Column' form. It contains the following fields and options:

- Field Name ***: Text input with 'Nationality'.
- Field Type**: Dropdown menu with 'String' selected.
- Constraints**: Three checkboxes: Identity (unchecked), Unique (unchecked), Mandatory (unchecked).
- Default Value**: Text input (empty).
- Field Length ***: Text input with '255'.
- Field Alias**: Text input (empty).
- Custom Picklist**: A section with a 'Picklist' dropdown (empty) and a 'Custom Picklist' checkbox (unchecked).
- Options**: A group of checkboxes: Allow Searching (unchecked), Read Only (unchecked), Non Modifiable (unchecked), and Hidden (checked).
- Trim Data**: A checkbox that is checked and highlighted with a red box.
- Buttons**: 'Modify' and 'Clear' buttons at the bottom right.

Figure 2.29

2.1.13 Foreign Key

This feature is used to make any added column as the foreign key, which acts as a link between two MDM tables.

To Add a Foreign Key:

1. Select the checkbox against the required Field Name.
2. Click on **Foreign Key**.

The screenshot shows the 'Definition' tab for the 'AddressDetails' table. The 'Foreign Key' button is highlighted in the top right. Below, the 'Add Column' dialog is open, showing the 'AddressID' field selected in the table list. The dialog fields are: Field Name (empty), Field Type (String), Constraints (Identity, Unique, Mandatory), Default Value (empty), Field Length (255), and Field Alias (empty). The 'Add' button is highlighted.

Field Name	Field Type	Field Length	Identity	Unique	Mandatory	Non Modifiable	Hidden
OccupancyStatus	String	255					
Years	Long	255					
Months	String	255					
AddressID	String	255					
PAN	String	255					

Figure 2.30

3. Foreign Key dialog box appears.
4. Select the required table from the list of tables.
5. The primary key of the selected table appears just below the table list.
 - Select this field. Make sure the data type of both the fields (source field and the destination field) is the same as a foreign-key value can refer to a primary key value of the other table.
6. Click on **Add**.

Foreign Key

Table Name	Created By	Description
<input type="radio"/> aa_tab	New User	
<input type="radio"/> AdnTest	Ranjit	qwerty
<input checked="" type="radio"/> BasicDetails	New User	created by pankaj
<input type="radio"/> BankofTexas	Ranjit	BankofTexas
<input type="radio"/> ConsentsDeclaration	New User	Created by pankaj
<input type="radio"/> CustomerDetails	New User	CustomerDetails
<input type="radio"/> Dealership_List	Ranjit	List of dealerships
<input type="radio"/> Doclistcontrol1	New User	created by pankaj
<input type="radio"/> EducationDetails1	New User	Created by pankaj

<

>

Table Name : BasicDetails

Field Name	Field Type	Field Length	Mandatory	Unique
<input checked="" type="radio"/> BasicDetailsID	String	255	Y	Y

Add

Figure 2.31

NOTE:

Multiple foreign keys can be created within a table.

7. Click on **Commit** to save the table. **Table modified successfully** message appears.
8. To delete a foreign key and its reference to the other table, click on **Index/Keys** tab.
 - i. Select the Foreign Key which is to be deleted.
 - ii. Click on **Delete** icon.

Data
Definition
Index/Keys
Mapping

Table Name: AddressDetails
Table Alias Name: AddressDetails

Description: Created by pankaj

Portal Table ☐

Attach View

Table Properties

Index Name

Field Type

Index Field

Table Name

Column Name

<input checked="" type="checkbox"/>	FK_9PQ5258ALF78DEU_7	ForeignKey	PAN	Dealership_List	Dealer_ID
<input type="checkbox"/>	FK_VASPP6OM56OGT25_6	ForeignKey	AddressID	BasicDetails	BasicDetailsID
<input type="checkbox"/>	PK_I42IWMNJNX0ND2O_5	PrimaryKey	PAN		

Commit

Figure 2.32

9. Click on **Commit** to save the table.

2.1.14 Primary Key

This feature is used to make any added column as the primary key.

If the user selects the Column checkbox and clicks on Primary Key, the system makes the selected column as primary key and does not allow a user to enter duplicate data. Primary Key does not take NULL values.

2.1.15 Generate Index

This feature is used to create an index for the added column.

2.1.16 Portal Table

Portal Table checkbox is used to enable or disable the availability of the table for Applications creation in Process Designer. By default, the Portal Table is disabled.

To Enable Portal Table:

1. For a New Table:
 - i. Click on **Add Table** link given on the menu bar.
 - ii. Table Name dialog box appears.
 - iii. Enter the **Table Name** and its **Description**.
 - iv. Click on **Next**. The page to define the table appears.
 - v. In the Definition tab, select **Portal Table** checkbox to enable it.

The screenshot shows the 'Definition' tab of a table configuration interface. At the top, there are tabs for 'Definition' and 'Index/Keys'. Below them, the 'Table Name' is 'PortalTable' and the 'Description' is 'Portal Table'. A red box highlights the 'Portal Table' checkbox, which is currently checked. To the right of the checkbox are links for 'Foreign Key', 'Generate Index', 'Primary Key', and a trash icon. Below this is a table with columns: Field Name, Field Alias, Field Type, Field Length, Mandatory, Unique, Identity, Filter, Hidden, and Default. The 'Add Column' section is visible at the bottom, containing fields for Field Name, Field Type (set to 'String'), Constraints (Identity, Unique, Mandatory), Default Value, Field Length (set to '255'), and Field Alias. There are also checkboxes for Custom Picklist, Allow Searching, Read Only, Trim Data, Non Modifiable, and Hidden. At the bottom right of the 'Add Column' section are 'Add' and 'Clear' buttons, and a 'Create' button at the very bottom right.

Figure 2.33

2. For an Existing Table:
 - i. Open the required table and click on **Definition** tab.
 - ii. Select the **Portal Table** checkbox to enable it.

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BOT Attach View Table Properties

Description: BankofTexas

Portal Table ☒

Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	
<input type="checkbox"/> DateOfBirth		Date	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add Clear

Commit

Figure 2.34

To Disable Portal Table:

1. Open the required table and click on **Definition** tab.
2. Uncheck **Portal Table** checkbox to disable it.

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BOT Attach View Table Properties

Description: BankofTexas

Portal Table ☐

Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	
<input type="checkbox"/> DateOfBirth		Date	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add Clear

Commit

Figure 2.35

2.1.17 Maker Checker Enabled in Add Table

In case of a maker checker environment, an additional, **Send for Approval** is displayed in the Add Table screen.

The user will have to perform the following steps to create a New Table when the maker checker is enabled:

1. After defining the table and its columns, you can click **Send for Approval** to send the table to Items for Approval section of the checker user directly.

Definition | Index/Keys

Table Name: Dealership_List [Rename Table](#)

Description: This table provides a list of all the dealers pre...

Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> Dealer Name		String	255	N	N	N	N	N	
<input type="checkbox"/> Dealer ID		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Dealer City		String	255	N	N	N	N	N	
<input type="checkbox"/> Dealer Type		String	255	N	N	N	N	N	

[Add Column](#)

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Figure 2.36

2. If the user clicks **Create**, the table will be saved for later and he can modify the created table's definition by clicking the **Items Modified by Me**. It will open the list of Modified/New tables acted upon by the current user.

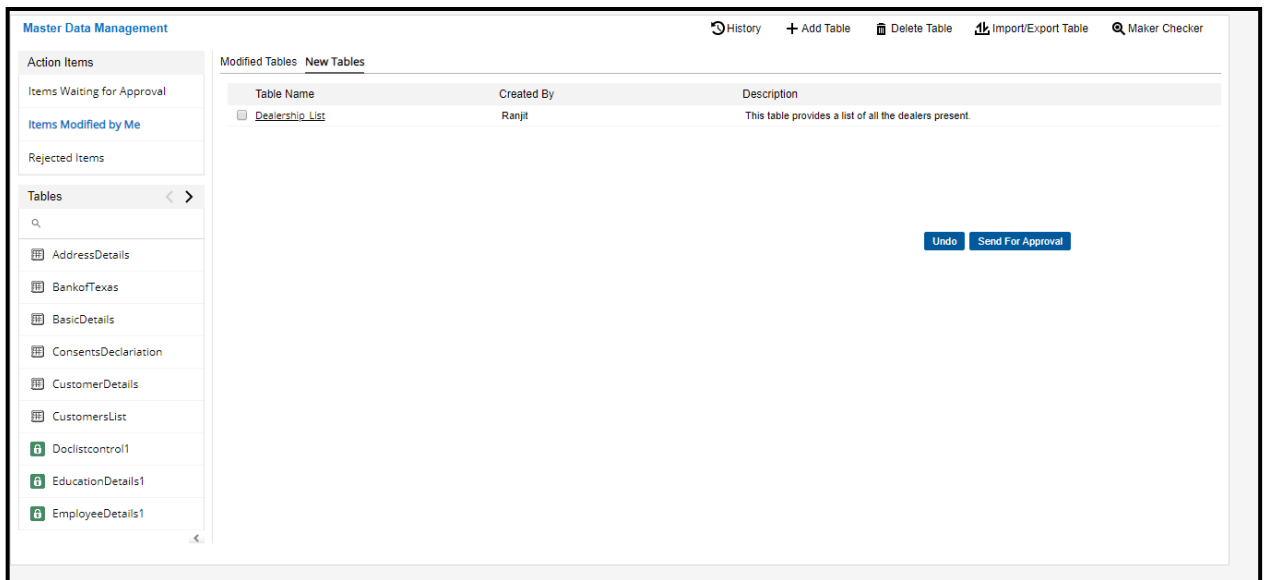


Figure 2.37

- Click the **New Tables** tab to open the list of tables, which are created by the current user but are not yet sent for approval once.

NOTE:

You can check the checkbox adjacent to the table name and click the Send for Approval to send the table to Items for Approval section of the checker user directly. Similarly you can delete the new table by clicking on the Undo.

- Click the table name to open the table definition screen.

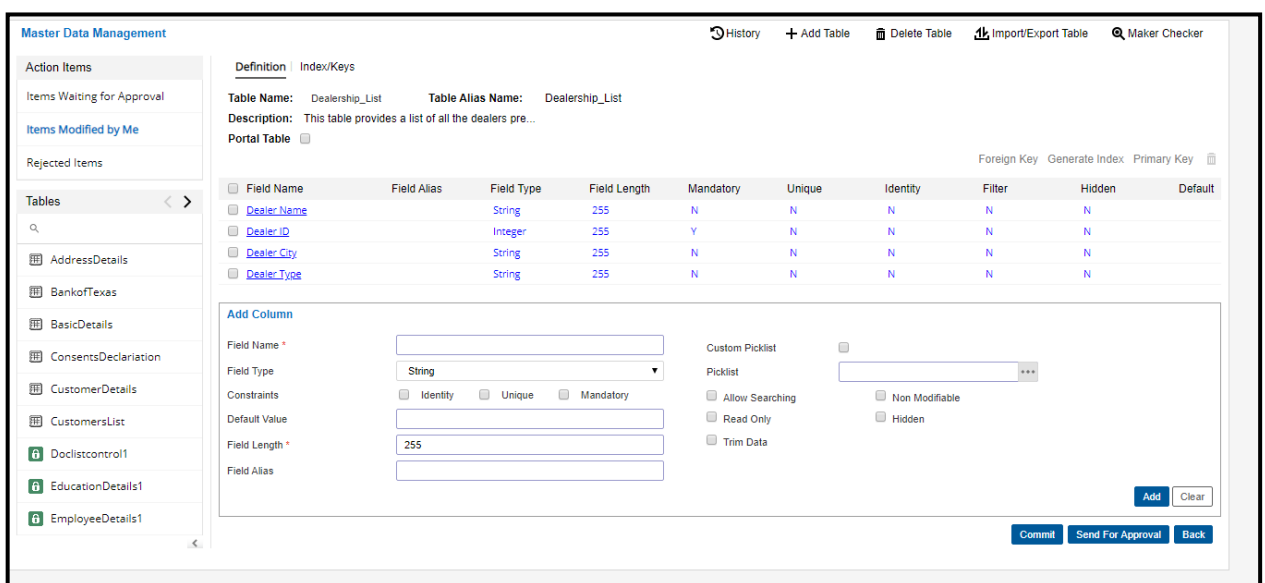


Figure 2.38

5. Modify the table definition, if you wish to make further changes. Click **Commit** if you wish to save the latest changes made.
6. If you wish to send the table for approval, click the **Send for Approval**.
7. After sending the table for approval, the table is sent to the Items Waiting for Approval section of the checker user.
8. Once the table is approved by a checker user, it will be created in the database.

Steps to approve a table by the checker user are:

1. Login to the **MDM** with the checker credentials.
2. Click the **Items Waiting for Approval** link to display the list of tables waiting for the approval.
3. Click on the following tabs to approve the tables:
 - Modified Tables
 - New Tables
 - Deleted Tables
 - Modified Data

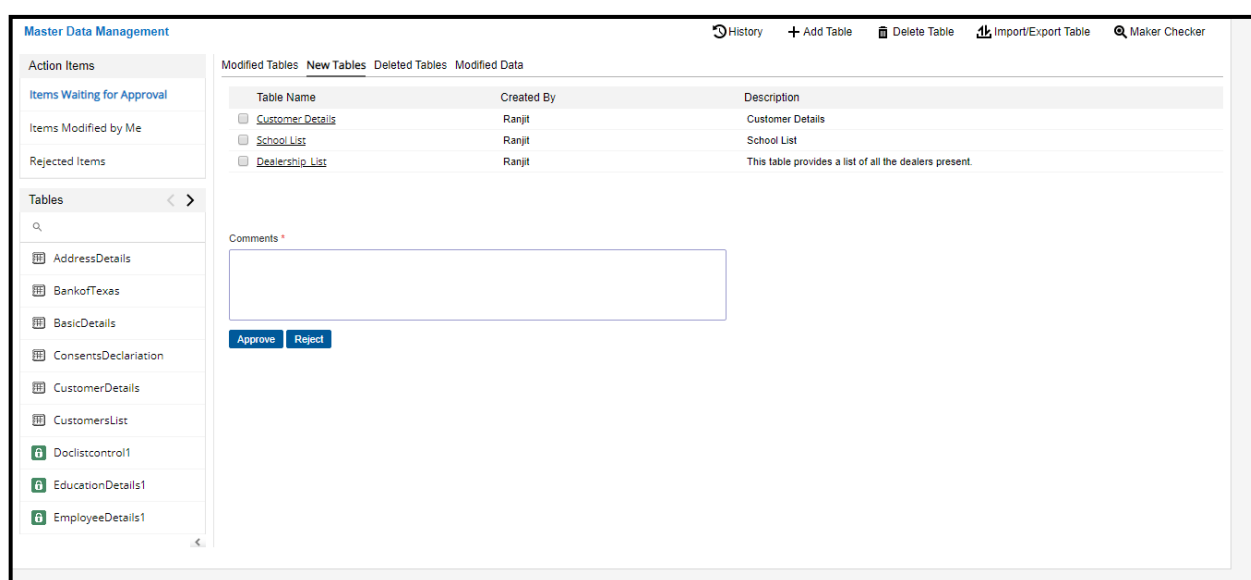


Figure 2.39

4. Check the table name from the list of tables by checking the checkbox adjacent to it.
5. Specify the approval comments in the **Comments** textbox.

- Click **Approve** to approve the table. In case the checker wishes to reject the changes done by the maker user, he can click the **Reject**.

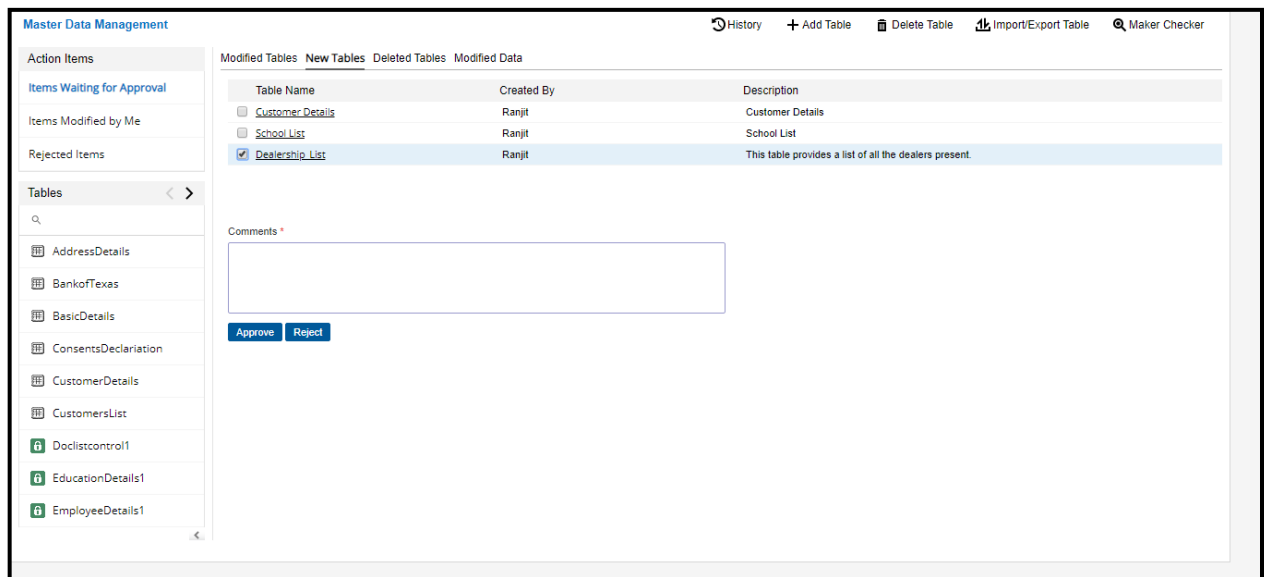


Figure 2.40

- You can also view the table definition by clicking the table name. After viewing the definition, the table can be Approved/Rejected from here itself.

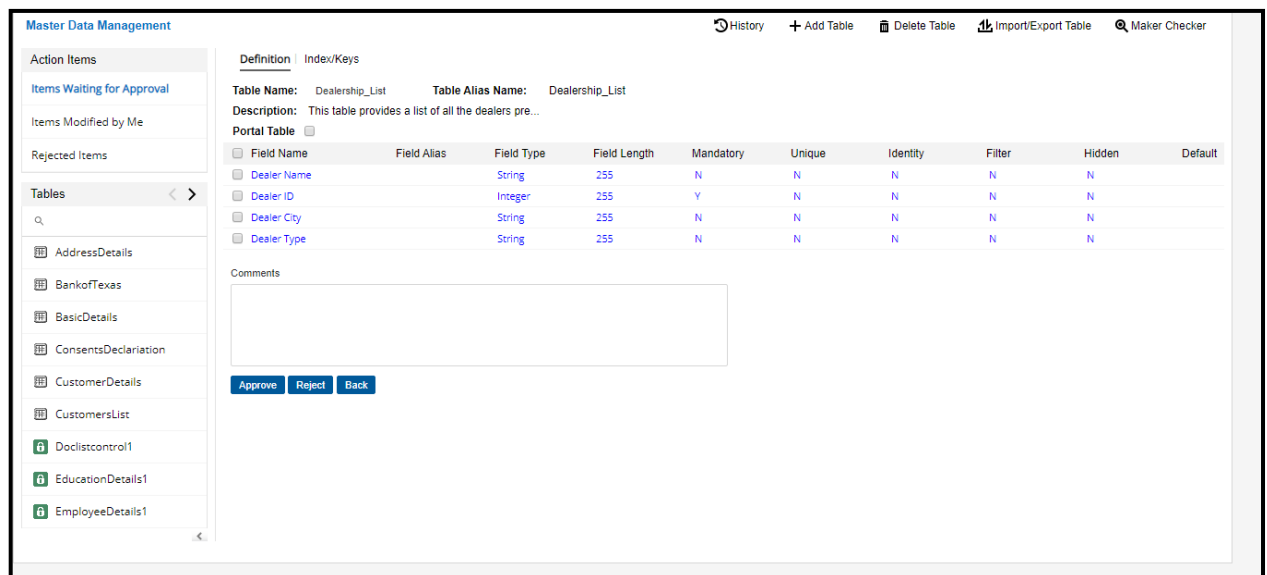


Figure 2.41

2.1.18 Attach View


Attach View feature is used in case the user wants to fetch data from Views created in the database and inserted them in the table added (MDM) through mapping of columns.

NOTE:

For Attach View, it is mandatory to select Custom Picklist for the column (in MDM Table) which needs to be mapped with the column added in View (in the database).

To Attach View:

1. Add table (example: pdb_user_details) through Add Table tab.



The screenshot shows a dialog box titled "Table Name" with a close button (X) in the top right corner. Inside the dialog, there are two input fields. The first is labeled "Table Name *" and contains the text "pdb_user_details". The second is labeled "Description" and contains the text "table pdb_user_details". At the bottom right of the dialog, there is a blue button labeled "Next".

Figure 2.42

2. Add column "ID" in table pdb_user_details.
3. Select checkbox against **Custom Picklist**.

Definition | Index/Keys

Table Name: pdb_user_details [Rename Table](#)
Description: table pdb_user_details
Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/>	Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
--------------------------	------------	-------------	------------	--------------	-----------	--------	----------	--------	--------	---------

Add Column

Field Name * ID
Field Type String
Constraints ☐ Identity ☐ Unique ☐ Mandatory
Default Value
Field Length * 255
Field Alias

Custom Picklist ☒
Picklist Custom PickList ***
☐ Allow Searching ☐ Non Modifiable
☐ Read Only ☐ Hidden
☐ Trim Data

Add Clear

Create

Figure 2.43

- Click on *** icon corresponding to Picklist.
- Enter Picklist Query “select username, userindex from pdbuser”.

NOTE:

Table “**pdbuser**” is already present in the cabinet with user details. Here “username” is the field which will display in place of ID in MDM Table and “userindex” is the field which is used for mapping.

Custom Picklist Definition

Here you can define the Custom PickList Definition and mapping of input fields and the output fields.

Picklist Query * select username, userindex from pdbuser Go

Add Multiple Rows ☐
Multiple Selection ☐
Multiple Values ☐
Selection Separator ,
Disable Manual Input ☐

Picklist Input Mapping

Picklist Input	Mapped Field/Value
----------------	--------------------

Save Close

Figure 2.44

6. Click on **Go**.
7. Click on **Save**.
8. Add other columns as mobile and address in pdb_user_details table.

Definition | Index/Keys

Table Name: `pdb_user_details` [Rename Table](#)

Description: `table pdb_user_details`

Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> ID		String	255	N	N	N	N	N	
<input type="checkbox"/> Mobile		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		Text	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add **Clear**

Create

Figure 2.45

9. Make ID as primary key and click on **Create**.
10. Now create a view namely “VW_PDB_USER_DETAILS” in the database.

Code for Creating View in Database

```
CREATE VIEW VW_PDB_USER_DETAILS AS
SELECT
pdb_user_details.id,
pdb_user_details.Mobile,
pdb_user_details.Address,
pduser.username,
NULL AS datarowid, 1 AS cf_sts, NULL AS cf_modifiedby, NULL AS
cf_modifieddatetime
FROM pdb_user_details,pduser
WHERE pdb_user_details.id = pduser.userindex
UNION
SELECT
t_pdb_user_details.id,
t_pdb_user_details.Mobile,
```

```

t_pdb_user_details.Address,
pdbuser.username,
t_pdb_user_details.datarowid,
t_pdb_user_details.cf_sts,
t_pdb_user_details.cf_modifiedby,
t_pdb_user_details.cf_modifieddatetime
FROM pdbuser,t_pdb_user_details
WHERE t_pdb_user_details.id = pdbuser.userindex

```

11. Once the view is created, go to **MDM View** and open the table “pdb_user_details” and go to the Definition tab and click on **Attach View**.

Table Name: pdb_user_details **Table Alias Name:** pdb_user_details

Description: table pdb_user_details

Portal Table: ☐

Buttons: Attach View Table Properties Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
ID		String	255	Y	N	N	N	N	
Mobile		Integer	255	N	N	N	N	N	
Address		Text	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add Clear Commit

Figure 2.46

12. Attach View dialog box appears.
13. Specify the view name “VW_PDB_USER_DETAILS” and click **Go**.

Attach View

Specify View Name *

Map 'Table' column with 'View' column:

Table Column	View Column
ID	<input type="text"/>

Figure 2.47

14. The system displays columns of the view in View Column dropdown.

Attach View

Specify View Name *

Map 'Table' column with 'View' column:

Table Column	View Column
Id	<input type="text"/> <ul style="list-style-type: none"> ID MOBILE ADDRESS USERNAME DATAROWID CF_STS CF_MODIFIEDBY CF_MODIFIEDDATETIME

Figure 2.48

15. Select the column which needs to be displayed in the table and click on **Save**.

Attach View

Specify View Name *

Map 'Table' column with 'View' column:

Table Column	View Column
Id	USERNAME

Figure 2.49

16. Click on **Commit** to save the table data to the database.
17. Go to **Data** Tab.
18. The system displays “username” column in place of “id” column.

Master Data Management

History + Add Table Delete Table Import/Export Table Maker Checker

Action Items

- Items Waiting for Approval
- Items Modified by Me
- Rejected Items

Tables

- AdnTest
- aliasTest
- naman_test
- New_table
- pdb_user_details**
- Sanity123
- Sanity_table
- trim_test

Data Definition Index/Keys Mapping

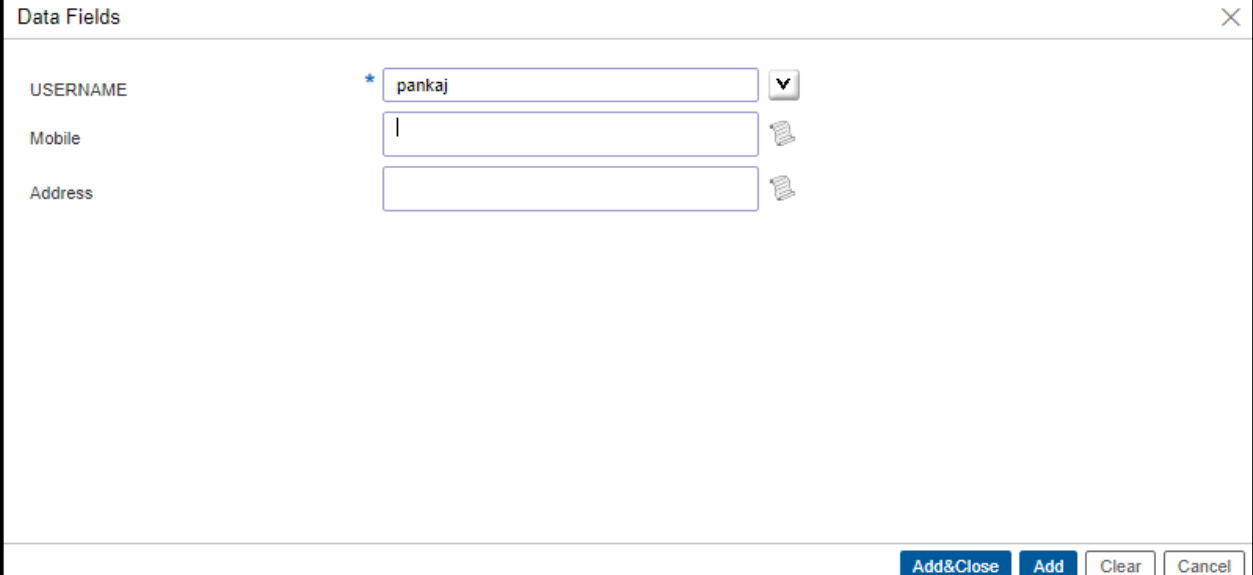
Table Name: pdb_user_details

	USERNAME	Mobile	Address
<input type="checkbox"/> <input type="radio"/>	Supervisor	864666543	Noida
<input type="checkbox"/> <input type="radio"/>	Supervisor2	864666543	Delhi

Download Data Upload Data

Figure 2.50

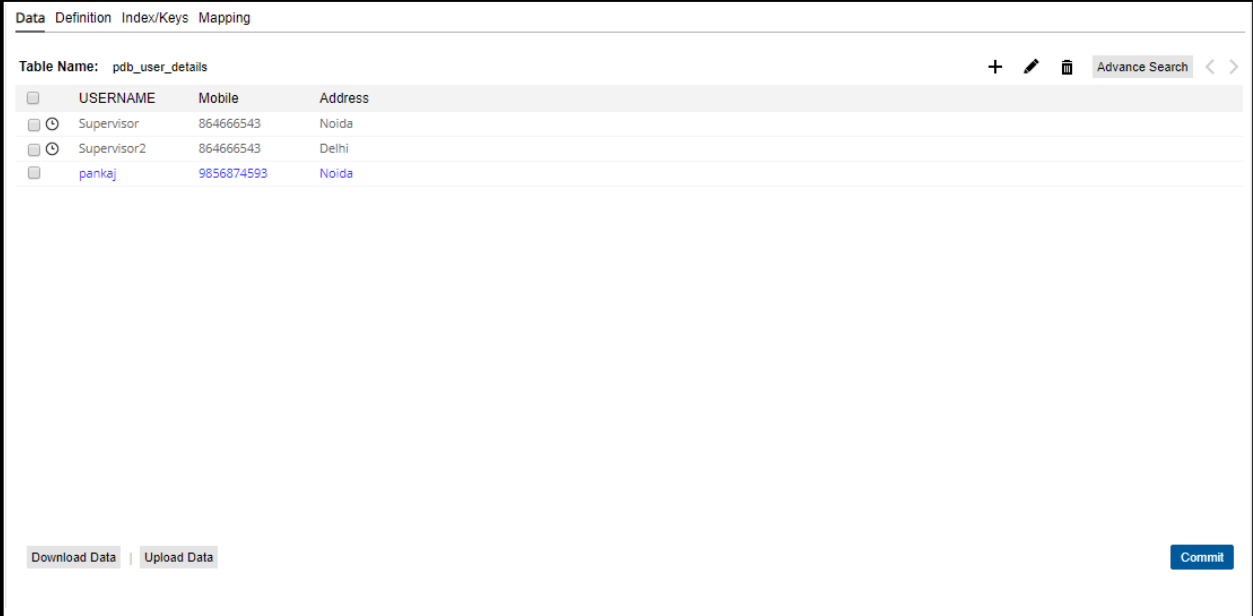
19. Click on **Add**.
20. The system displays username from view “VW_PDB_USER_DETAILS” created in the database.



The 'Data Fields' dialog box contains three input fields: 'USERNAME' with a dropdown menu showing 'pankaj', 'Mobile' with a text input containing 'I', and 'Address' with an empty text input. At the bottom right, there are four buttons: 'Add&Close', 'Add', 'Clear', and 'Cancel'.

Figure 2.51

21. Select the required username and click on **Add**.



The table view shows the 'pdb_user_details' table with columns: USERNAME, Mobile, and Address. The table contains three rows: 'Supervisor' (864666543, Noida), 'Supervisor2' (864666543, Delhi), and 'pankaj' (9856874593, Noida). The 'pankaj' row is highlighted. At the bottom, there are buttons for 'Download Data', 'Upload Data', and 'Commit'.

USERNAME	Mobile	Address
Supervisor	864666543	Noida
Supervisor2	864666543	Delhi
pankaj	9856874593	Noida

Figure 2.52

22. Click on **Commit** to save the table data to the database.

2.1.19 Table Properties

Table Properties feature is used to give an alias name for the table. It is also used to configure the sorting order of the table data based on the defined columns.

To Configure Table Properties:

1. Open the required table and click on Definition tab.
2. Click on **Table Properties** link.

The screenshot displays the Master Data Management interface. On the left, a sidebar lists various tables, with 'BankofTexas' selected. The main area shows the 'Definition' tab for the 'BankofTexas' table. At the top, the 'Table Name' is 'BankofTexas' and the 'Table Alias Name' is also 'BankofTexas'. Below this, a table lists the columns: 'CustName' (String, 255, N, N, N, N, N), 'CustID' (Integer, 255, Y, N, N, N, N), 'Address' (String, 255, N, N, N, N, N), and 'DateOfBirth' (Date, 255, N, N, N, N, N). The 'Table Properties' link is highlighted in the top right. Below the table, the 'Add Column' dialog is open, showing fields for 'Field Name', 'Field Type' (String), 'Constraints' (Identity, Unique, Mandatory), 'Default Value', 'Field Length' (255), and 'Field Alias'. There are also checkboxes for 'Custom Picklist', 'Allow Searching', 'Read Only', 'Trim Data', 'Non Modifiable', and 'Hidden'. The 'Add' and 'Commit' buttons are at the bottom right.

Figure 2.53

3. Table Properties dialog box appears.
4. Enter an alias name for the table in **Table Alias Name** textbox. By default, the original table name appears. Alias name for the table will be used for display instead of the original table name.

Table Properties

You can provide alias name for the table for display instead of original table name.

Table Alias Name

Please add columns and their order type for sorting

Column Name

Sort Column	Sort Order
-------------	------------

Figure 2.54

- For sorting, add the columns and select their order type as ascending or descending.

Table Properties

You can provide alias name for the table for display instead of original table name.

Table Alias Name

Please add columns and their order type for sorting

Column Name

Sort Column	Sort Order
CustName	<input type="text" value="ASC"/> <input type="button" value="✓"/> <input type="button" value="✗"/>
CustID	<input type="text" value="ASC"/> <input type="button" value="✓"/> <input type="button" value="✗"/>

Figure 2.55

6. A success message appears. Click on **OK** to close the message box.
7. Reload the table list and data for the changes to take effect.



Figure 2.56

2.2 Modify Table

To modify an existing table:

1. Navigate to the table you wish to modify from the Approved Tables list section and click on the **table name** to display the table related information in various tabs in the right pane.

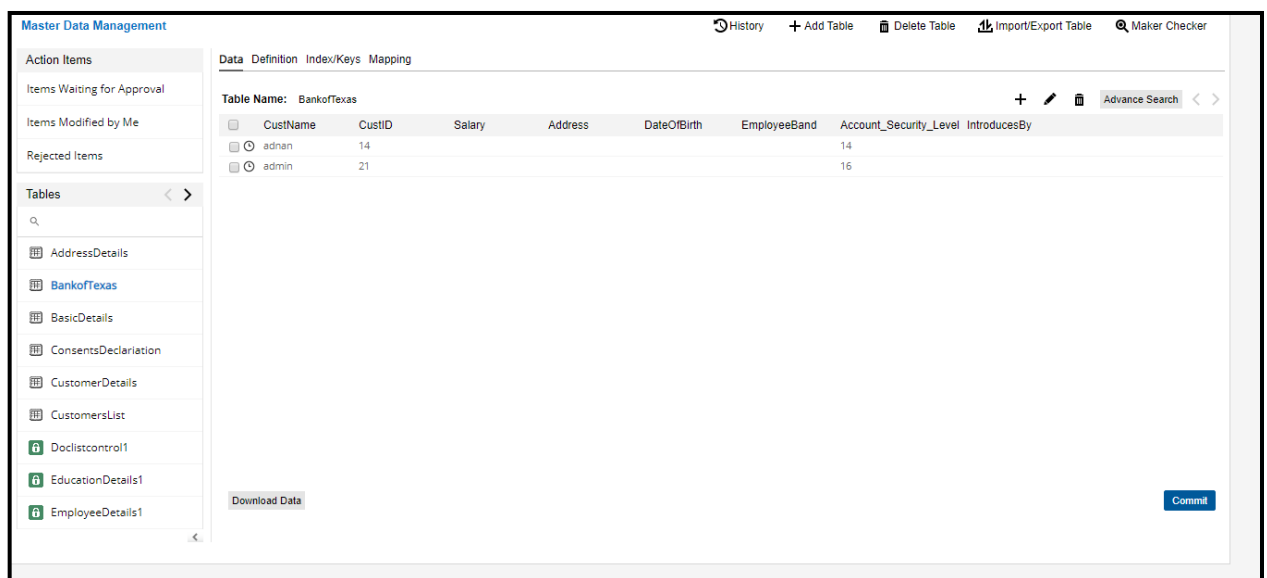


Figure 2.57

2. Select the **Definition** tab to display the table definition page.

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table ☐

Attach View Table Properties

Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Salary		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Add Clear

Commit

Figure 2.58

- Click the **Column** name to be modified. The column details appear in the Add Column section.

Data Definition Index/Keys Mapping

Table Name: BankofTexas Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table ☐

Attach View Table Properties

Foreign Key Generate Index Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Salary		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☒

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Modify Clear

Commit

Figure 2.59

- Make the appropriate changes to the columns and click on **Modify**.

NOTE:

If you modify a column, you might need to regenerate the indices and primary keys based on it.

- Click on **Commit** to save the changes to the database.

Modifying a Table when Maker Checker is enabled:

1. Login to **MDM**.
2. Click on a **table name** in **Approved Tables** list to open the table properties in the right pane.
3. Click on **Definition** tab to open the table definition page.

The screenshot shows the 'Definition' tab of the MDM interface for a table named 'BankofTexas'. The 'Table Name' and 'Table Alias Name' are both 'BankofTexas', and the 'Description' is 'BankofTexas'. The 'Portal Table' checkbox is unchecked. Below this is a table listing the fields of the table:

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
CustName		String	255	N	N	N	N	N	
CustID		Integer	255	Y	N	N	N	N	
Salary		Integer	255	N	N	N	N	N	
Address		String	255	N	N	N	N	N	

Below the table is an 'Add Column' section with the following fields:

- Field Name:
- Field Type:
- Constraints: ☐ Identity ☐ Unique ☐ Mandatory
- Default Value:
- Field Length:
- Field Alias:

On the right side of the 'Add Column' section, there are checkboxes for 'Custom Picklist', 'Allow Searching', 'Read Only', 'Trim Data', 'Non Modifiable', and 'Hidden'. At the bottom right, there are buttons for 'Add', 'Clear', 'Commit', and 'Send For Approval'.

Figure 2.60

4. Make the requisite changes to the columns and indices.

NOTE:

Following are the colour codes which help you in identifying the status of a column/index.

- Green: Modified
- Red: Deleted
- Blue: New
- Black: Approved/Unaltered

Data
Definition
Index/Keys
Mapping

Table Name: BankofTexas
Table Alias Name: BankofTexas
Description: BankofTexas
Portal Table ☐

Foreign Key
Generate Index
Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Salary		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	

Add Column

Field Name *
Field Type
Constraints
Default Value
Field Length *
Field Alias

String
☐ Identity
☐ Unique
☐ Mandatory

Custom Picklist
Picklist

☐ Allow Searching
☐ Read Only
☐ Trim Data
☐ Non Modifiable
☐ Hidden

Add
Clear

Commit
Send For Approval

Figure 2.61

- Click on **Commit** if you want to save the changes made to the table definition in temporary storage and want to further modify the table definition at a later stage.
- Click on **Send for Approval** if you want to send the changes made in table for approval from a checker user.

If you click **Commit**, then the modified table definition is sent to the **Items Modified by Me** section of the same user.

The user can open and make further changes to the table from this screen. The steps to modify a table from the **Items Modified By Me** screen are:

- Click the **Items Modified by Me** link to open a list of tables in the right pane.

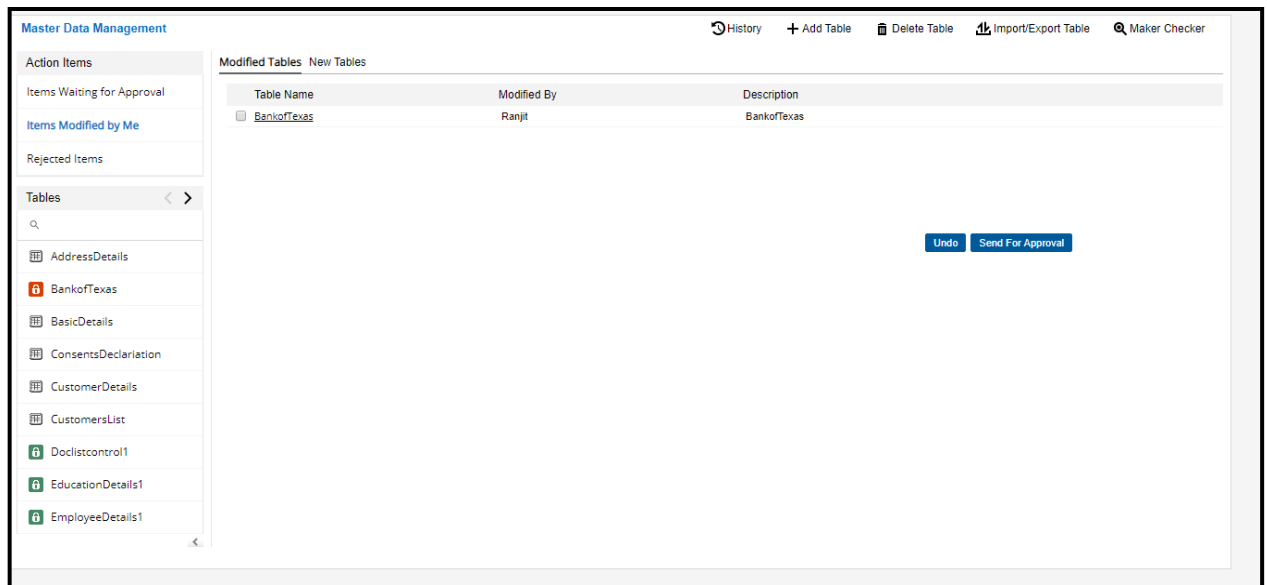


Figure 2.62

2. Select the **Modified Tables** tab to open the list of tables which are modified by the current user and are yet not sent for approval.

NOTE:

The table can be directly sent for approval by checking its adjacent checkbox and clicking Send for Approval. You need not perform the following steps then. A user can also restore the last approved state of the table by clicking the Undo. After clicking the undo the table disappears from the Modified By Me section and is displayed in the Approved Table List again.

3. Click a table name to open its definition in the table definition page.

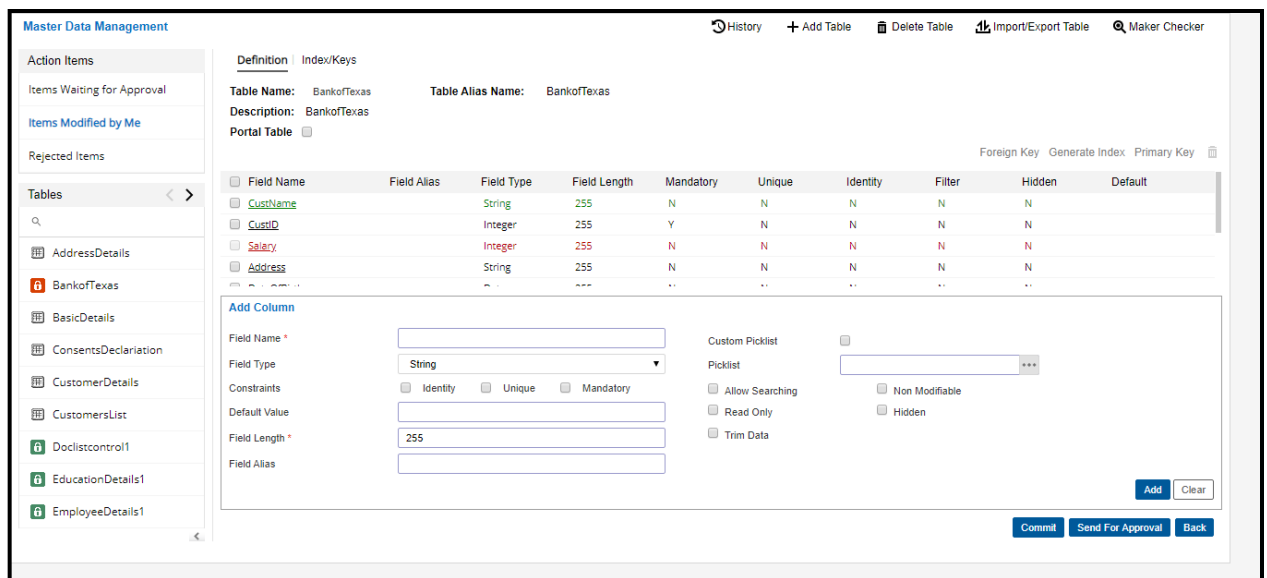


Figure 2.63

4. Make the changes to the columns and indices. After making the changes, click on **Commit** to save changes in the database but still keep the table at the current user's end only. If you wish to finalize and send the changes for approval, click on Send for Approval.

NOTE:

The user cannot make any update to data or table definition until the process definition update is approved and committed. Till then, the table will be shown locked by the user.

When a user clicks on **Send for Approval**, the table is sent to the Items Waiting for Approval section of a checker user. The steps to approve a table from the checker user are:

1. Login to **MDM**.
2. Click on **Items Waiting for Approval** to open the list of items waiting for approval.

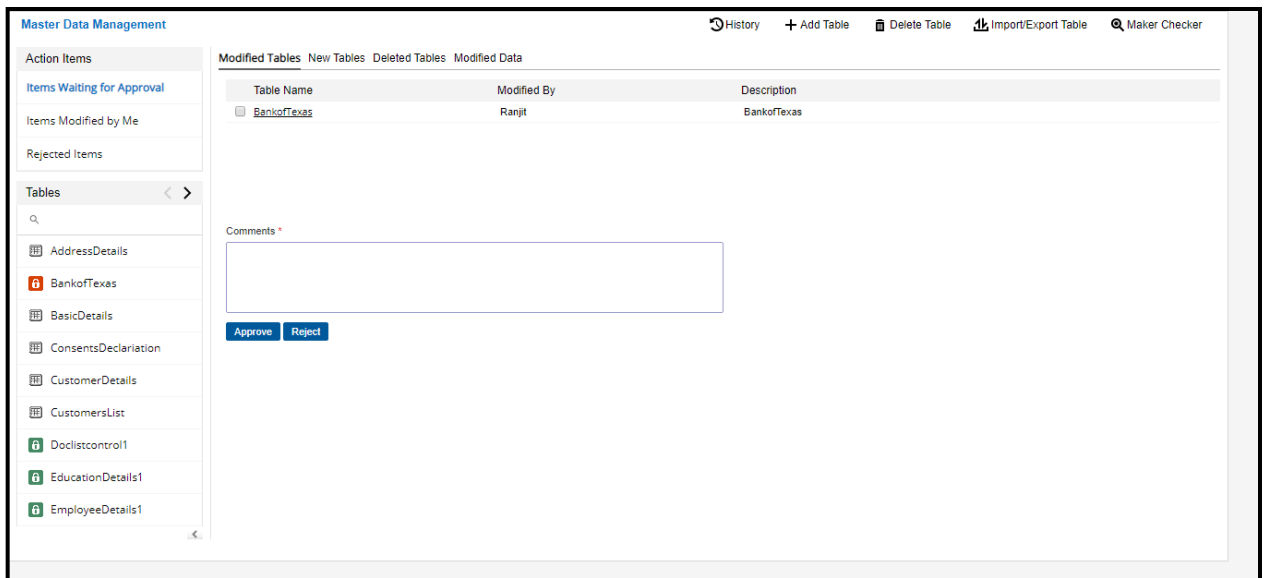


Figure 2.64

3. Click on **Modified Tables** tab to open the list of modified tables which are waiting for approval.
4. Select the required table name checkbox.
5. Enter the approval comments in the **Comments** textbox and click on **Approve** to approve the changes made to the table. You can click on **Reject** to reject the changes made to the table. The rejected table will go to the maker user.

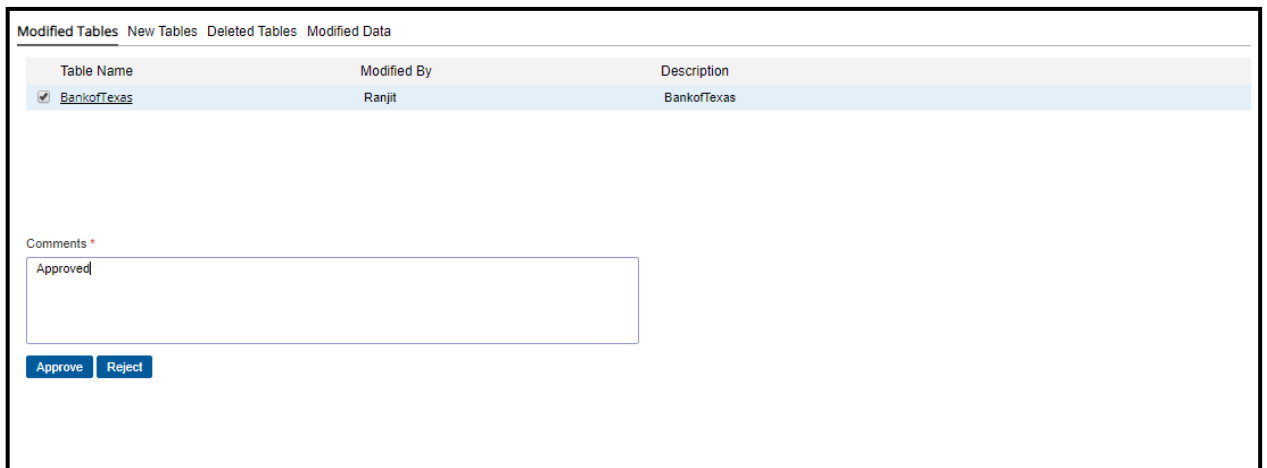


Figure 2.65

2.3 Delete Table

To Delete a Table:

1. Click on **Delete Tables** link.
2. Delete Table page appears in the right pane. It contains a list of all the available tables.

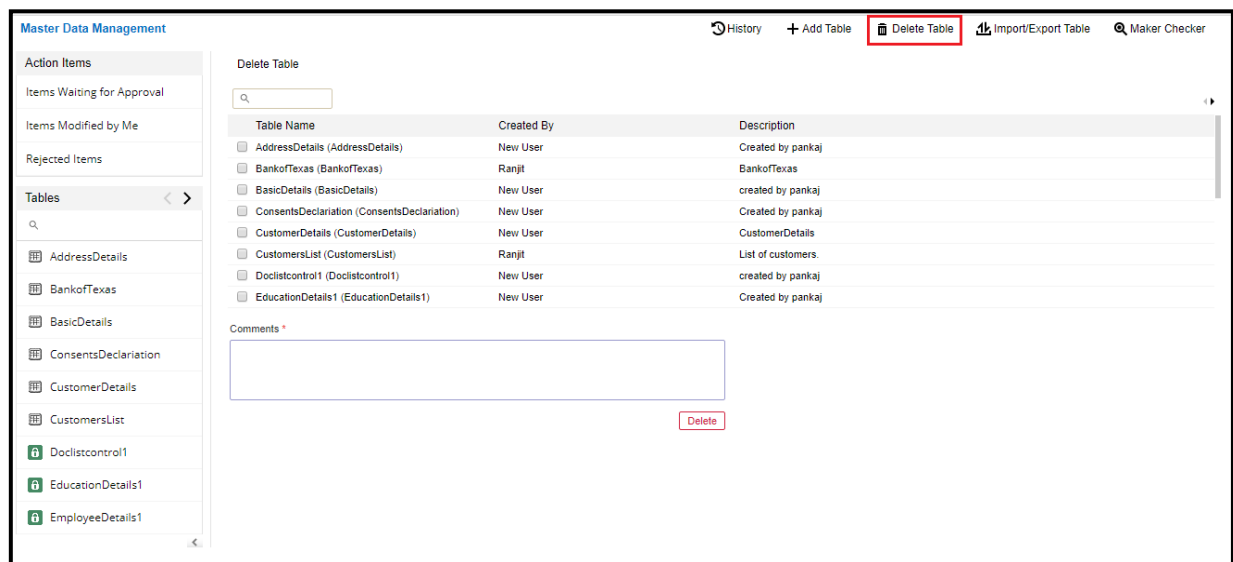


Figure 2.66

3. Select the checkbox against the table name that is to be deleted. Multiple selections are not allowed.
4. Specify the comments in **Comments** textbox.

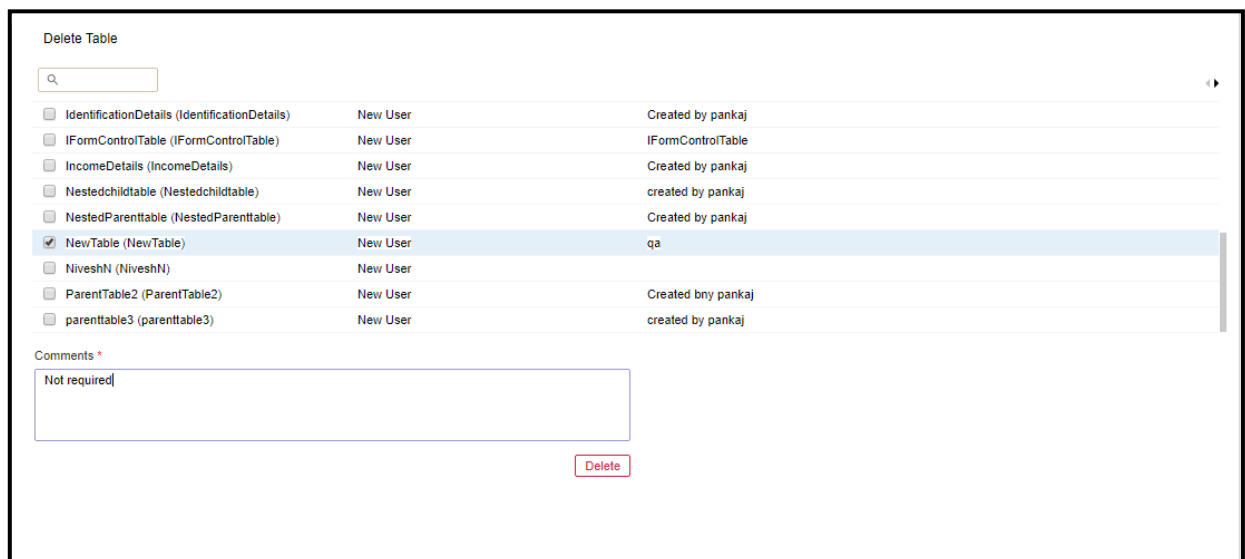


Figure 2.67

5. Click on **Delete** to delete the table from the list
6. Confirm Table Delete dialog box appears for confirmation.
7. Click **Yes** to delete the table.

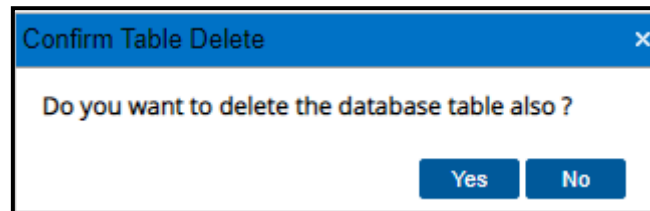


Figure 2.68

2.3.1 Maker Checker Enabled in Delete Table

In the case of Maker Checker environment, the some additional steps are required to be performed.

After clicking the delete, the table is moved to the Items Waiting for Approval section of the checker user. The checker user can then approve the deletion of the table.

The steps for approving deletion of a table deleted by a maker user are as follows:

1. Click **Items Waiting for Approval** link.
2. Click the **Deleted Tables** tab, to open the list of deleted tables, which are waiting for current user's approval.
3. Check the checkbox adjacent to the table name.
4. Enter the approval comments in the **Comments** textbox and click **Approve** to approve the deletion of the table. On approval, the table is deleted from the temporary storage as well as the database.

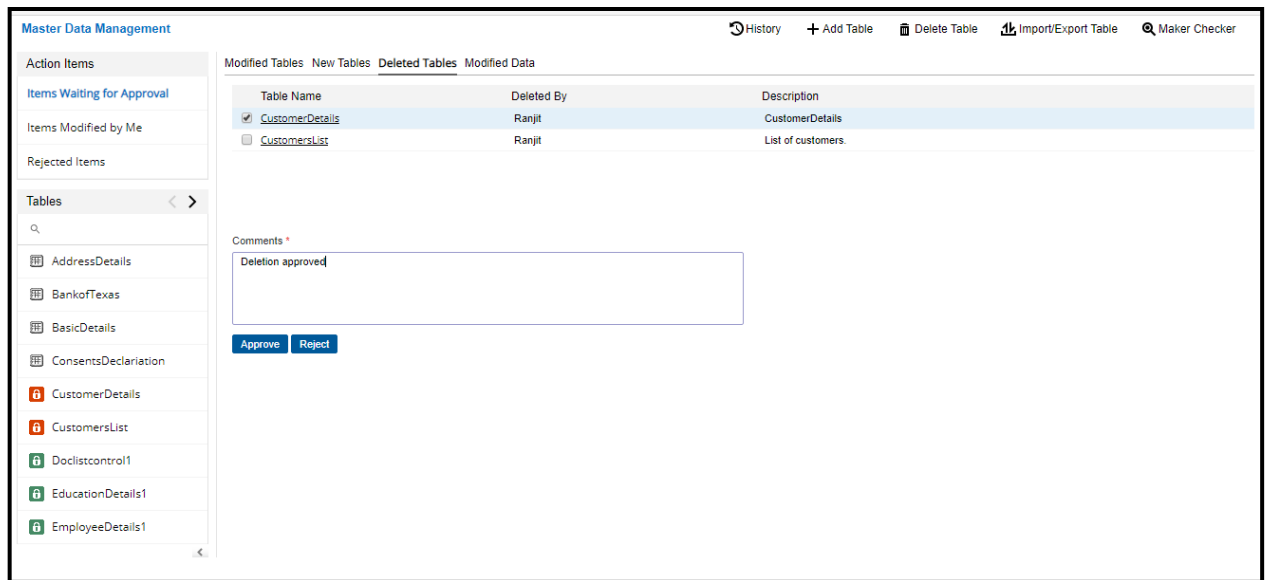


Figure 2.69

5. You can click on **Reject** to reject the deletion. The rejected table will go to the maker user.

2.4 View Table

View Table is used to view table properties.

To View Table:

Select Table Name from the list displayed in the left side under Tables.

The following three tabs are available if the Table properties are awaited for approval:

- Data
- Definition
- Index/Keys

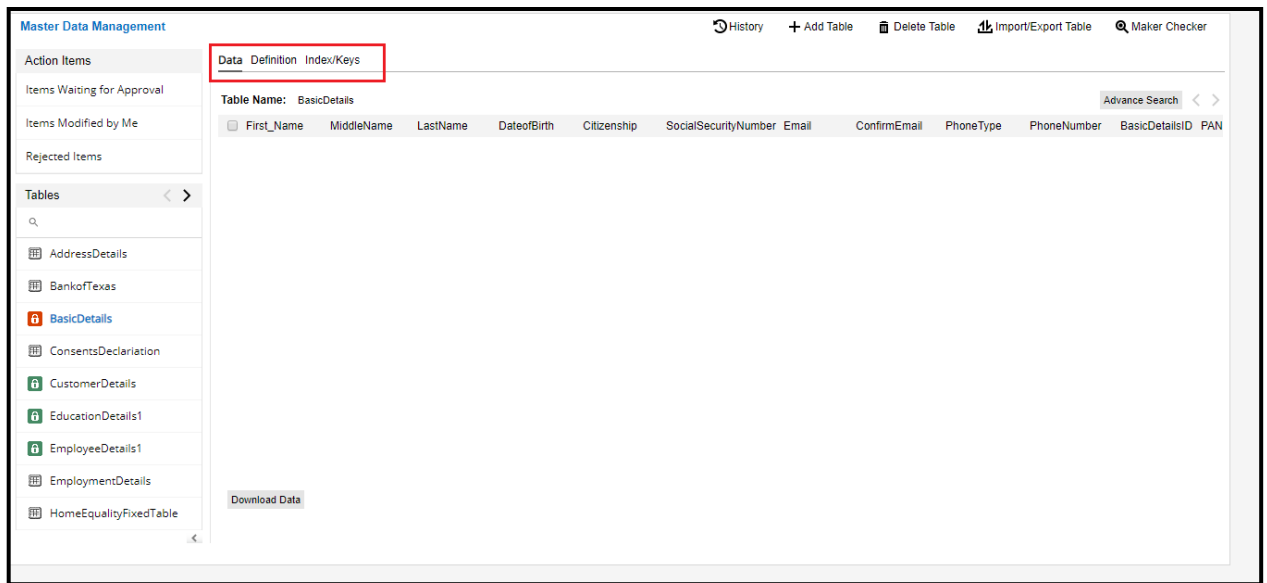


Figure 2.70

The following four tabs are available if the Table properties are not awaited for approval:

- Data
- Definition
- Index/Keys
- Mapping

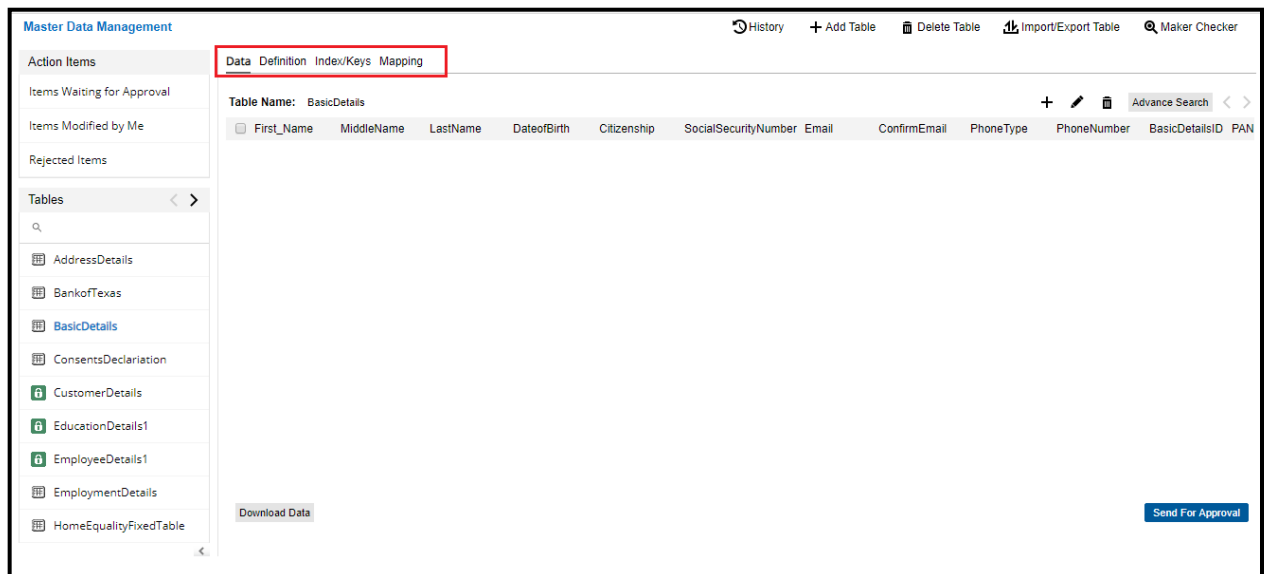


Figure 2.71

2.4.1 Data Tab

Data Tab is used to display Data added in the selected Table.

The screenshot shows the 'Master Data Management' interface. On the left, there is a sidebar with 'Action Items' (Items Waiting for Approval, Items Modified by Me, Rejected Items) and a 'Tables' list. The 'Tables' list includes AddressDetails, BankofTexas, BasicDetails, ConsentsDeclaration, CustomerDetails, Dealership_List (highlighted), EducationDetails1, EmployeeDetails1, and EmploymentDetails. The main area displays the 'Data' tab for the 'Dealership_List' table. It shows a table with columns 'Dealer_Name' and 'Dealer_ID'. The data rows are: Raja Motors (002) and Vandana Auto (089). At the bottom right, there is a 'Commit' button. At the bottom left, there is a 'Download Data' button.

Dealer_Name	Dealer_ID
Raja Motors	002
Vandana Auto	089

Figure 2.72

2.4.2 Definition Tab

Definition Tab is used to display column and their properties added in the selected Table.

The screenshot shows the 'Definition' tab for the 'Dealership_List' table. It displays the table's metadata, including the table name, alias name, description, and portal table status. Below this, there is a table showing the fields and their properties. The fields are 'Dealer_Name' and 'Dealer_ID'. The 'Dealer_ID' field is marked as mandatory, unique, and a primary key. At the bottom, there is an 'Add Column' form with fields for Field Name, Field Type, Constraints, Default Value, Field Length, and Field Alias. There are also checkboxes for Identity, Unique, Mandatory, Custom Picklist, Allow Searching, Read Only, Trim Data, Non Modifiable, and Hidden. At the bottom right, there are 'Add', 'Clear', and 'Commit' buttons.

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
Dealer_Name		String	255	N	N	N	N	N	
Dealer_ID		String	255	Y	N	N	N	N	

Figure 2.73

2.4.3 Index/Keys Tab

Index/Keys Tab is used to display attached indexes and primary key with the selected table.

The screenshot shows the 'Index/Keys' tab of a table configuration interface. At the top, there are tabs for 'Data', 'Definition', 'Index/Keys', and 'Mapping'. Below the tabs, the 'Table Name' is 'Dealership_List' and the 'Table Alias Name' is also 'Dealership_List'. The 'Description' is 'List of dealerships'. There is a 'Portal Table' checkbox which is unchecked. On the right, there are links for 'Attach View' and 'Table Properties'. Below this, there is a table listing indexes and primary keys. The table has columns: Index Name, Field Type, Index Field, Table Name, and Column Name. One entry is visible: 'PK_OPHBCMLXTF9VW8G_1' with 'PrimaryKey' as the field type and 'Dealer_ID' as the index field. At the bottom right, there is a 'Commit' button.

Index Name	Field Type	Index Field	Table Name	Column Name
PK_OPHBCMLXTF9VW8G_1	PrimaryKey	Dealer_ID		

Figure 2.74

2.4.4 Mapping Tab

Mapping Tab is used to upload data in CSV format to map uploaded fields with the added columns in the selected table (Refer section [Upload Bulk Data in MDM](#)).

The screenshot shows the 'Mapping' tab of the same table configuration interface. At the top, there are tabs for 'Data', 'Definition', 'Index/Keys', and 'Mapping'. Below the tabs, there is a 'Saved Mapping | Change Mapping' section. Under 'Select a file *', there is a 'Choose File' button and a text box showing 'No file chosen'. To the right is a 'Define Mapping' button. Below this, there is a 'Separator *' dropdown menu set to 'Comma'. A section titled 'Create mapping of File headers with the table columns:' contains two columns: 'Target Table Fields' and 'Source File Fields'. Under 'Target Table Fields', there are 'Dealer_Name' and 'Dealer_ID'. Under 'Source File Fields', there are two dropdown menus. At the bottom right, there is a 'Save Mapping' button.

Figure 2.75

3

Import/Export Tables

This chapter consists of:

- Import Table
- Export Table

3.1 Import Table

Import Table section allows users to create tables by importing tables created in XML format and as well as importing tables from existing databases.

Import Tables: To Import the Table(s) from the existing database or from an XML file, the user needs to click on **Import Tables** on the menu bar.

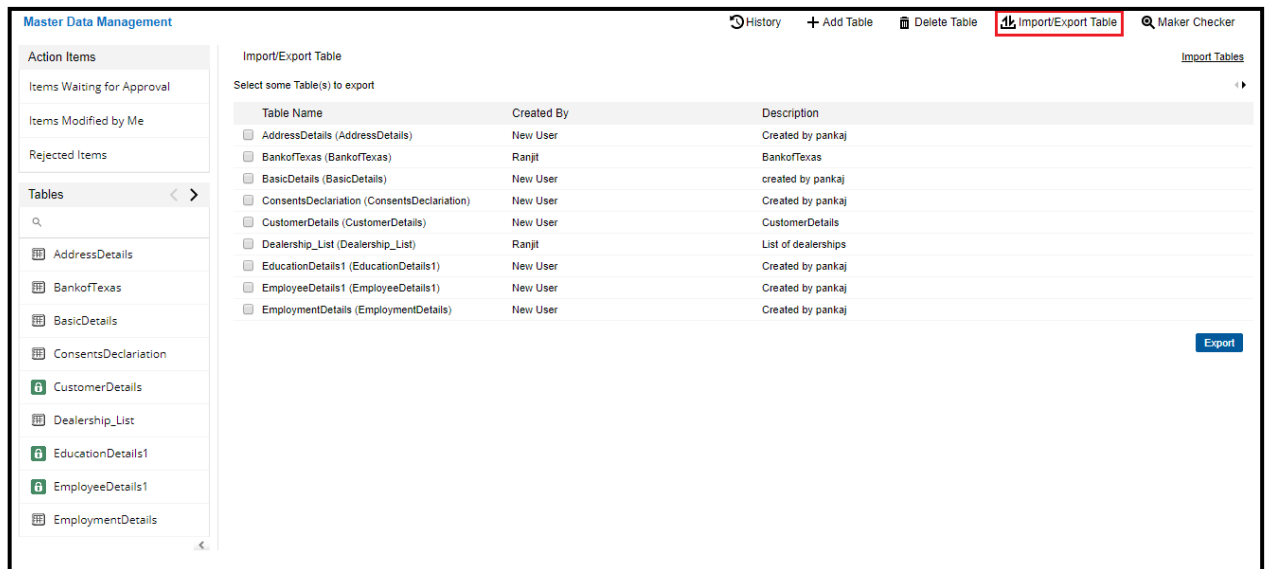


Figure 3.1

Import from XML file

1. Click on **Import Tables**.

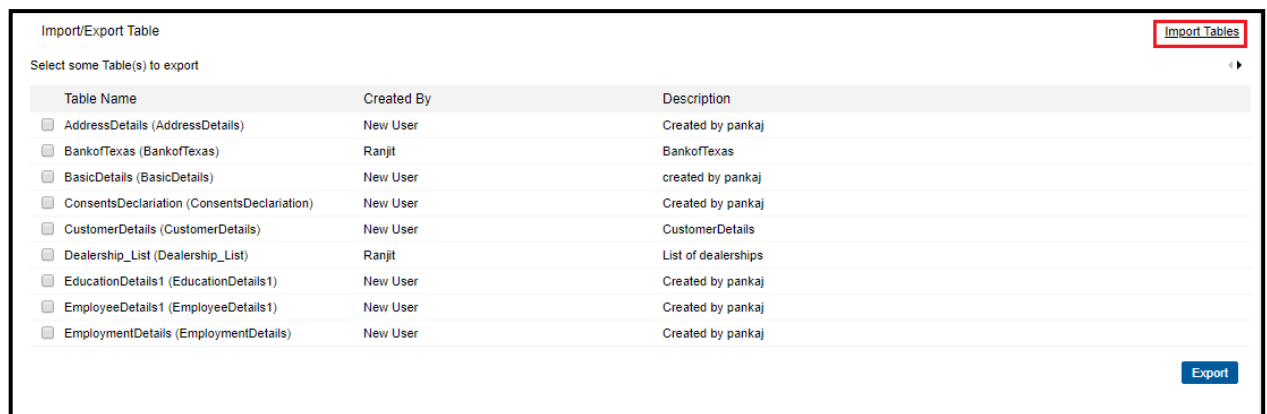


Figure 3.2

2. The screen to Import From XML File appears.
3. Specify the location of the XML file and click on **Import**.

Import From XML File

Select a file * No file chosen

Import Existing Database Table

Table Name *

Staging Cabinet ☐

Figure 3.3

4. This will import the XML file and their corresponding Tables into the system. Depending on the success/failure of import a message is displayed.

Master Data Management

History + Add Table Delete Table Import/Export Table Maker Checker

✓ Tables Imported Successfully.

Import From XML File

Select a file * No file chosen

Import Existing Database Table

Table Name *

Staging Cabinet ☐

Table Name	Status	Description
AdnTest	Success	

Figure 3.4

Import Existing Database Table: To import tables from an existing database, type the Table name present in the existing database, in the space provided and click on Import, which will import the Table from the existing database into the system. Select **Staging Cabinet** checkbox, to connect to any secondary cabinet.

Import From XML File

Select a file * No file chosen

Import Existing Database Table

Table Name *

Staging Cabinet ☐

Figure 3.5

3.2 Export Table

The Export Table section allows the users to Export the Tables from the Current Database to an XML file.

To Export Tables:

1. Click on **Import/Export Table**. Import/Export Table screen appears.
2. Select the tables to export and click on **Export**.

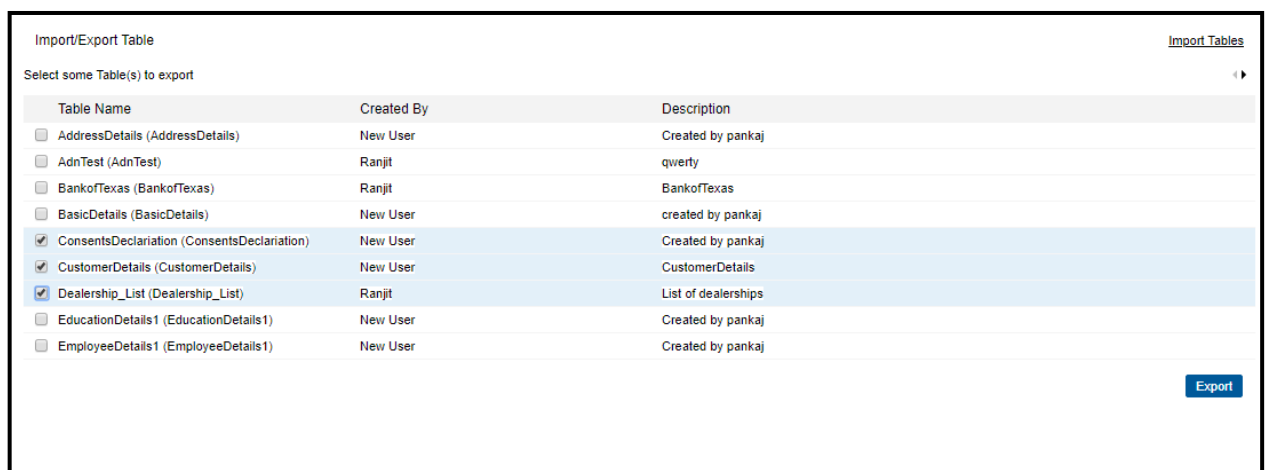


Figure 3.6

3. The exported tables are downloaded in your local machine.

Depending on the browser, on clicking **Export** prompts a pop-up, asking the user to **Open/Save** the file or **Cancel**. The Open option will open the XML file, save will save the file in the specified location and opting for **Cancel** option aborts the export operation.

By default, the Tabular column displays the tables in ascending order and the number of tables displayed would be based on the Batch size specified in the System preference under the Preference tab.

4

Data Operations

This chapter consists of:

- Add Data in Tables
- Modify Data in Tables
- Delete Data from Tables
- View Data in Tables
- Data Operations with Enabled Maker Checker

4.1 Add Data in Tables

This operation is used to add data in tables.

To Add Data:

1. Open the required table from **Tables** section. You can also search for a table name.
2. Click on **+** (Add Data).

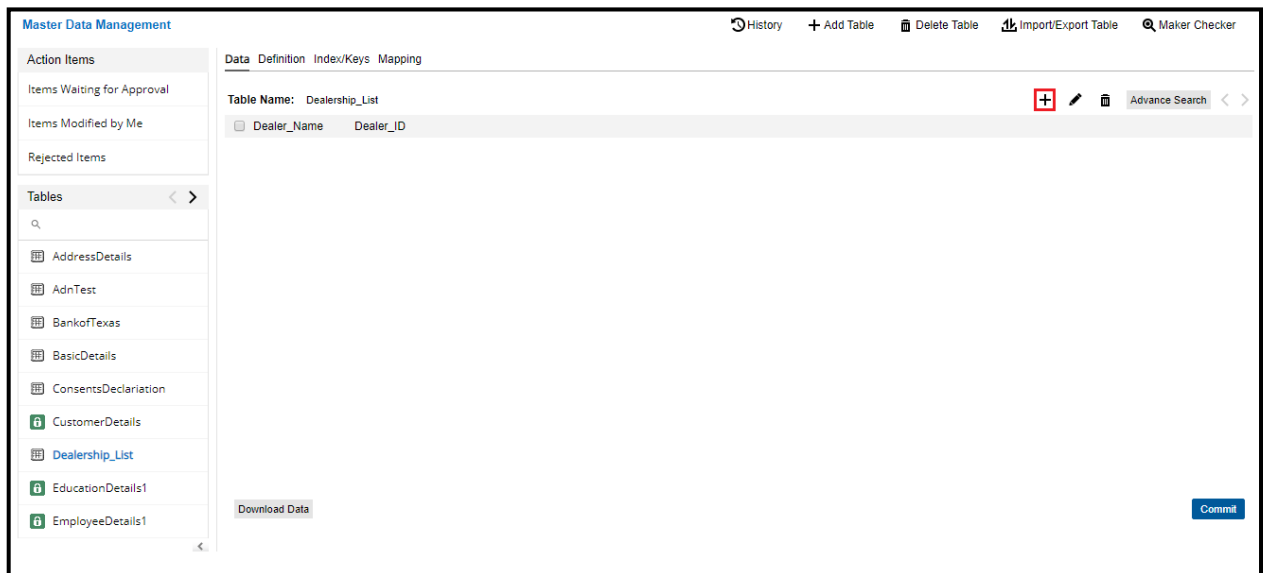


Figure 4.1

3. Data Fields dialog box appears.
4. Enter the required **Data** in Columns.
5. Click on:
 - **Add** to add the entered data and continue adding more data.
 - **Add&Close** to add the entered data and close the dialog box.
 - **Clear** to clear the entered data.
 - **Cancel** to close the dialog box without saving the data.

The 'Data Fields' dialog box contains two input fields. The first field, labeled 'Dealer_Name', contains the text 'Risabh Toyota'. The second field, labeled 'Dealer_ID', contains the text '096'. There is a small blue asterisk icon to the left of the 'Dealer_ID' field. At the bottom right of the dialog, there are four buttons: 'Add&Close' (blue), 'Add' (blue), 'Clear' (white), and 'Cancel' (white).

Figure 4.2

6. The added data appears in blue colour.

The table view shows the 'Dealership_List' table. The table has two columns: 'Dealer_Name' and 'Dealer_ID'. The data rows are 'Risabh Toyota' (096) and 'Aditya Hyundai' (0125). The table is titled 'Table Name: Dealership_List'. There are buttons for '+', '-', 'Advance Search', and '< >' at the top right. At the bottom left, there is a 'Download Data' button. At the bottom right, there is a 'Commit' button.

Dealer_Name	Dealer_ID
Risabh Toyota	096
Aditya Hyundai	0125

Figure 4.3

7. Click on **Commit** to save the entered data in the database.
8. “**Data successfully committed**” message appears. Click on **OK** to close the message box.

4.2 Modify Data in Tables


This operation is used to modify data in tables.

To Modify Data:

1. Open the required table from **Tables** section. You can also search for a table name.

NOTE:

If the number of rows is more than the current batch size, then multiple batches of data are displayed with the help of Prev and Next links. A user can navigate between the batches while modifying the data.

2. Select the checkbox against the required row and click on  (**Modify Data**).

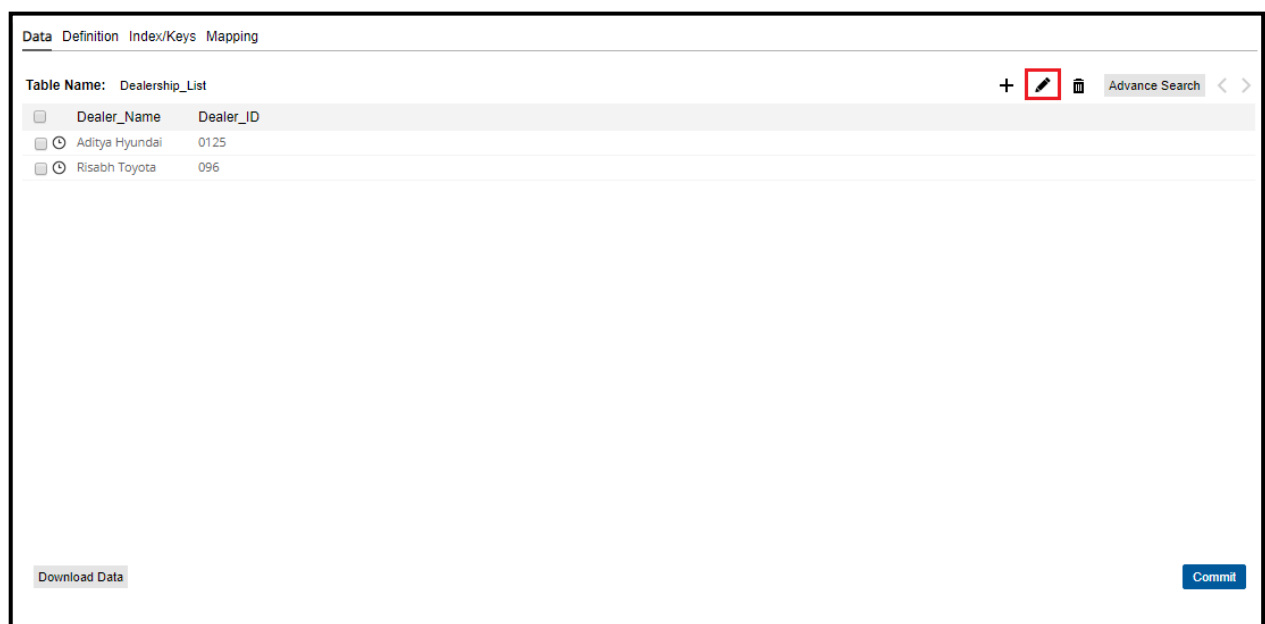



Table Name: Dealership_List		+			Advance Search	<	>
<input type="checkbox"/>	Dealer_Name	Dealer_ID					
<input type="checkbox"/>	Aditya Hyundai	0125					
<input type="checkbox"/>	Risabh Toyota	096					

Download Data

Commit

Figure 4.4

3. Data Fields dialog box appears.
4. Edit the data in Columns and click on **Modify**.

Data Fields

Dealer_Name: Aditya Hyundai

Dealer_ID: * 0189

Modify Cancel

Figure 4.5

5. The modified data appears in green colour:

Table Name: Dealership_List

Dealer_Name	Dealer_ID
Aditya Hyundai	0189
Risabh Toyota	096

Download Data Commit

Figure 4.6

6. Click on **Commit** to save the entered data in the database.

4.3 Delete Data from Tables

This operation is used to delete data in tables.

To Delete Data:


1. Open the required table from **Tables** section. You can also search for a table name
2. Select the checkbox against the row and click on  (**Delete**).



Figure 4.7

3. Confirm Data Delete dialog box appears for confirmation.
4. Click on **Yes** to confirm.

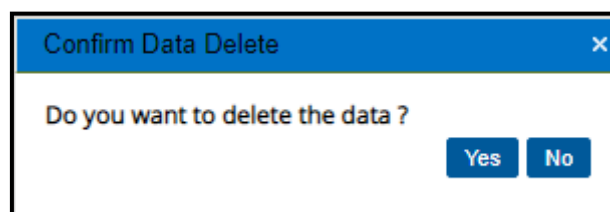


Figure 4.8

5. On confirmation, the deleted row appears in red colour.

Data	Definition	Index/Keys	Mapping
<div> <div>Table Name: Dealership_List</div> <div> <div>+</div> <div>✎</div> <div>🗑</div> <div>Advance Search</div> <div><</div> <div>></div> </div> </div>			
<input type="checkbox"/>	Dealer_Name	Dealer_ID	
<input checked="" type="checkbox"/>	Khan Auto Repair Works	011	
<input checked="" type="checkbox"/>	Aditya Hyundai	0189	
<input checked="" type="checkbox"/>	Risabh Toyota	096	
<div>Download Data</div> <div>Commit</div>			

Figure 4.9

6. Click on **Commit** to save the table in the database.

NOTE:

Deletion operation affects different types of rows in different manners. Following are the different possibilities: If the row is a newly added one and is added in the current set of operations only (without committing the changes), the row gets deleted from the list of rows. If a row already exists and it is fetched from the database, then its colour gets changed and is shown in red colour.

4.4 View Data in Tables

This operation is used to view data in tables.

To View Data:

1. Open the required table from **Tables** section. You can also search for a table name.
2. Go to the Data tab. The added data appears in grey colour.

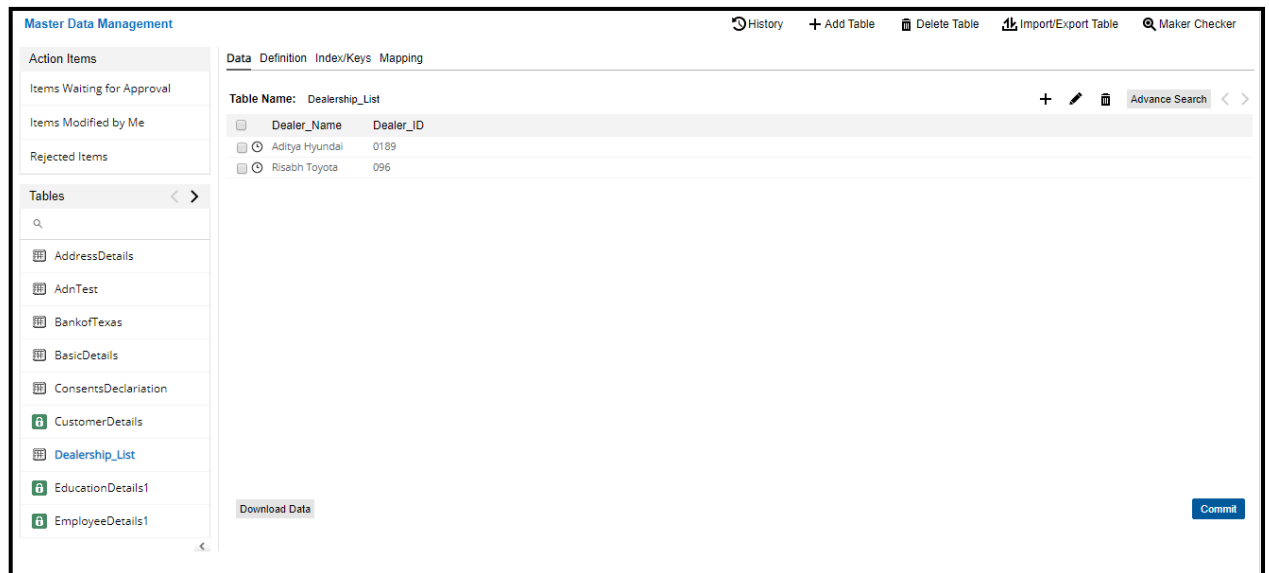


Figure 4.10

4.5 Data Operations with Enabled Maker Checker

When maker checker feature is enabled for data operations, the data can be added/modified/deleted temporarily. It will not be reflected in the database. To save it in the database, it needs to be approved by a checker user.

The initial steps to open an approved table and alter its data are similar to the steps explained above. The only difference in data manipulation screen is that it contains named **Send for Approval** instead of Commit. Clicking this sends the data to the **Items Waiting for Approval** section of the checker user(s). From this step, the user can further make changes to the data of the table before sending it for the approval process.

Steps to modify data when Maker Checker is enabled:

1. Open the required table and go to **Data** tab.
2. Make the changes to the data as explained in the previous topics.
3. Click on **Send for Approval**.

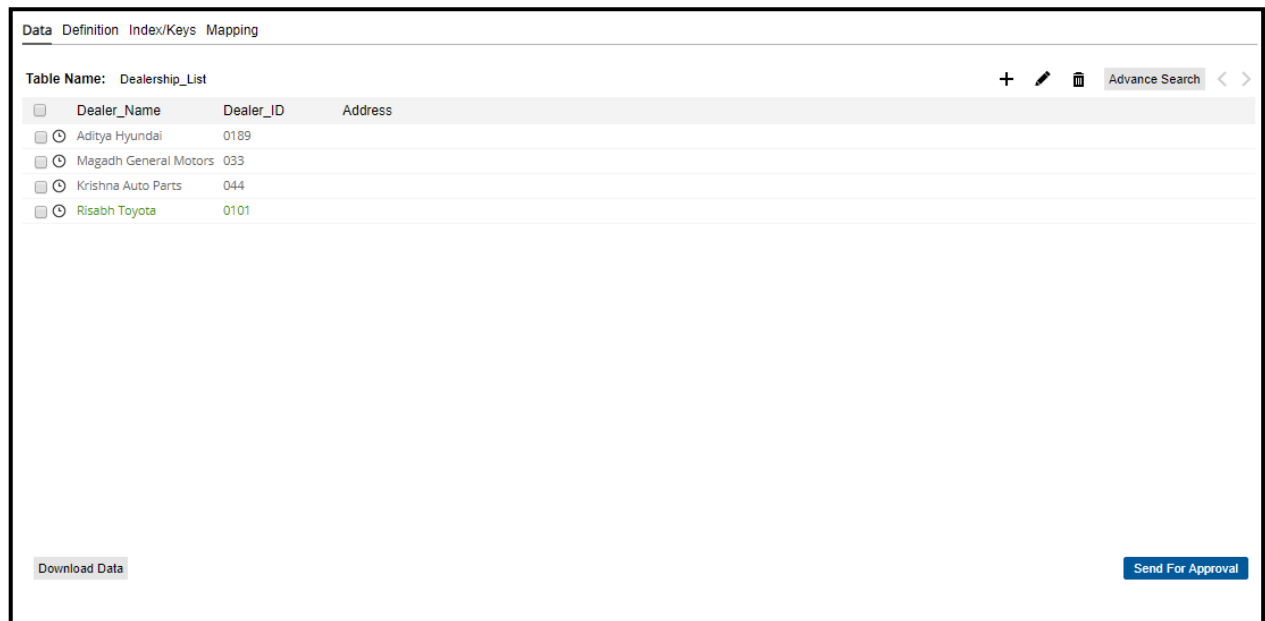


Table Name: Dealership_List		
Dealer_Name	Dealer_ID	Address
Aditya Hyundai	0189	
Magadh General Motors	033	
Krishna Auto Parts	044	
Risebh Toyota	0101	

Figure 4.11

When the **Send for Approval** is clicked the selected table is sent to the Items Waiting for Approval section of checker user(s). The checker user can view and approve/reject the changes made by the maker user.

The steps to approve/reject the data changes in a table are:

1. Login to **MDM** with the checker's credentials.
2. Click the **Items Waiting for Approval** link to open the list of tables.
3. Click the **Modified Data** tab to open the list of tables with modified data.

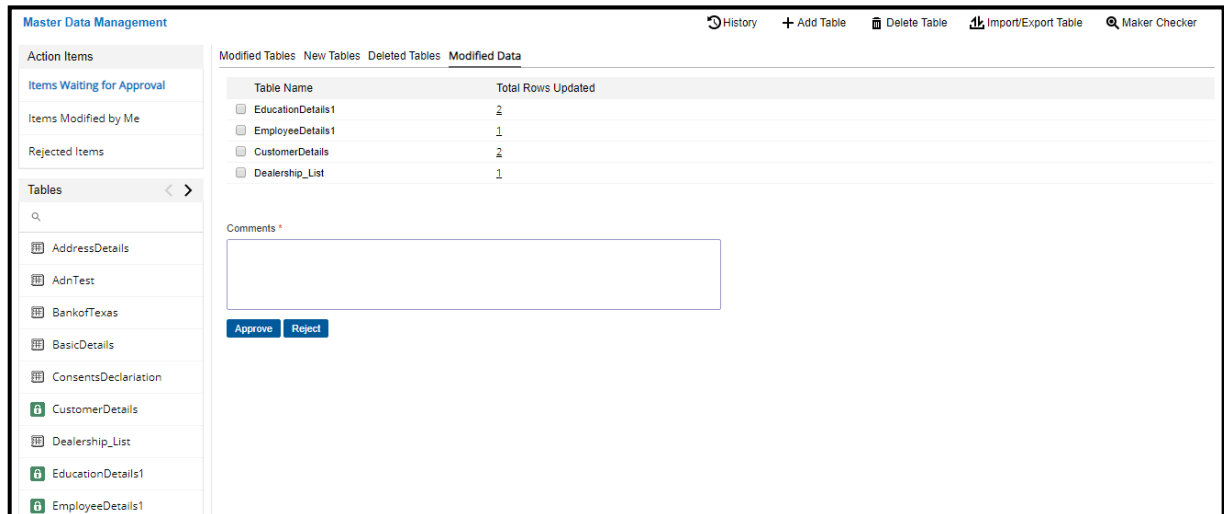


Figure 4.12

4. Click the **hyperlink** under **Total Rows Updated** to view the data changes made to the table.

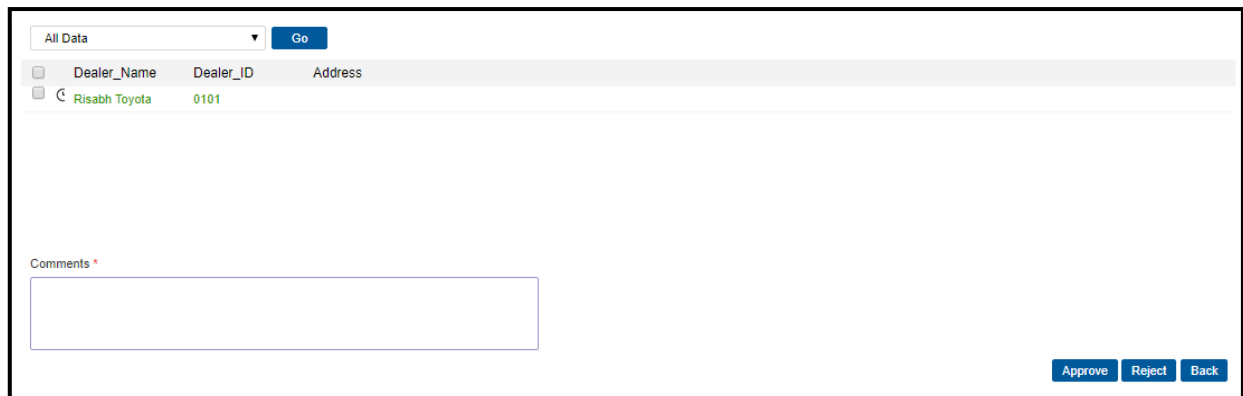


Figure 4.13

NOTE:

In this screen, table data which is altered (added/modified/deleted) by the maker user is displayed.

5. Enter an appropriate comment and click on **Approve** to save the data in the database.

5

Upload Bulk Data in MDM

This chapter consists of:

- Upload Bulk Data
- Define Mapping
- Save Mapping
- Change Mapping
- Clear Mapping
- Upload Data in Maker Checker Environment

5.1 Upload Bulk Data

Upload Bulk Data is used to upload multiple data simultaneously in Excel as well as Character Separated Files.

NOTE:

By default, the system allows upload of a CSV format file. For Excel files uploading, the user has to enter some data in the ini configuration file. Upload xlsx file in MDM is not supported in 64-bit server.

To Upload Data:

1. Open a **Table** from the Tables section and click on the **Mapping** tab.
2. Upload tab appears.

The screenshot displays the 'Master Data Management' application interface. On the left, a sidebar contains sections for 'Action Items' (Items Waiting for Approval, Items Modified by Me, Rejected Items) and a 'Tables' list with various tables like AddressDetails, AdnTest, BankofTexas, BasicDetails, ConsentsDeclaration, CustomerDetails, Dealership_List, EducationDetails1, and EmployeeDetails1. The main area is titled 'Master Data Management' and has tabs for 'Data', 'Definition', 'Index/Keys', and 'Mapping'. The 'Mapping' tab is active, showing options to 'Saved Mapping' or 'Change Mapping'. Below this, there's a 'Select a file' section with a 'Choose File' button and a 'No file chosen' text, followed by a 'Define Mapping' button. A 'Separator' dropdown is set to 'Comma'. A section titled 'Create mapping of File headers with the table columns:' contains a table with 'Target Table Fields' and 'Source File Fields'. The 'Target Table Fields' list includes Dealer_Name, Dealer_ID, and Address. The 'Source File Fields' list is empty. A 'Save Mapping' button is located at the bottom right of the mapping area.

Figure 5.1

3. Click on **Choose File** to select the file to upload.
4. Select a **Separator**.

Data Definition Index/Keys **Mapping**

Saved Mapping | Change Mapping

Select a file * Dealership_List_1580357005954.csv

Separator * ▼

Create mapping of File headers with the table columns:

Target Table Fields	Source File Fields
Dealer_Name	<input type="text"/>
Dealer_ID	<input type="text"/>
Address	<input type="text"/>

Figure 5.2

- Click on **Define Mapping**.

Data Definition Index/Keys **Mapping**

Saved Mapping | Change Mapping

Select a file * No file chosen

Separator * ▼

Create mapping of File headers with the table columns:

Target Table Fields	Source File Fields
Dealer_Name	Dealer_Name
Dealer_ID	Dealer_Name
Address	Dealer_Name

Figure 5.3

- System displays exported fields in dropdowns.
- Select Source File Fields against the Target Fields to create a mapping of File headers with the table columns.

Data Definition Index/Keys **Mapping**

Saved Mapping | Change Mapping

Select a file * No file chosen

Separator * ▼

Create mapping of File headers with the table columns:

Target Table Fields	Source File Fields
Dealer_Name	Dealer_Name
Dealer_ID	Dealer_ID
Address	Dealer_Name
	Dealer_Name
	Dealer_ID
	Address

Figure 5.4

- After creating the mapping of table columns with the file headers, click on **Save Mapping**. On clicking **Save Mapping**, the file name and column-header mapping are saved in the database for the selected table.

The screenshot shows a web interface with tabs: Data, Definition, Index/Keys, and Mapping. The Mapping tab is active. It displays a table titled 'Mapping defined for the table:' with two columns: 'Target Table Fields' and 'Source File Fields'. The table contains three rows of mappings: Dealer_Name to Dealer_Name, Dealer_ID to Dealer_ID, and Address to Address. Below the table is a 'Clear Mapping' button. At the top, there is a 'Saved Mapping' section with a 'Change Mapping' link.

Target Table Fields	Source File Fields
Dealer_Name	Dealer_Name
Dealer_ID	Dealer_ID
Address	Address

Figure 5.5

- Go to **Data** Tab and click on **Upload Data**.

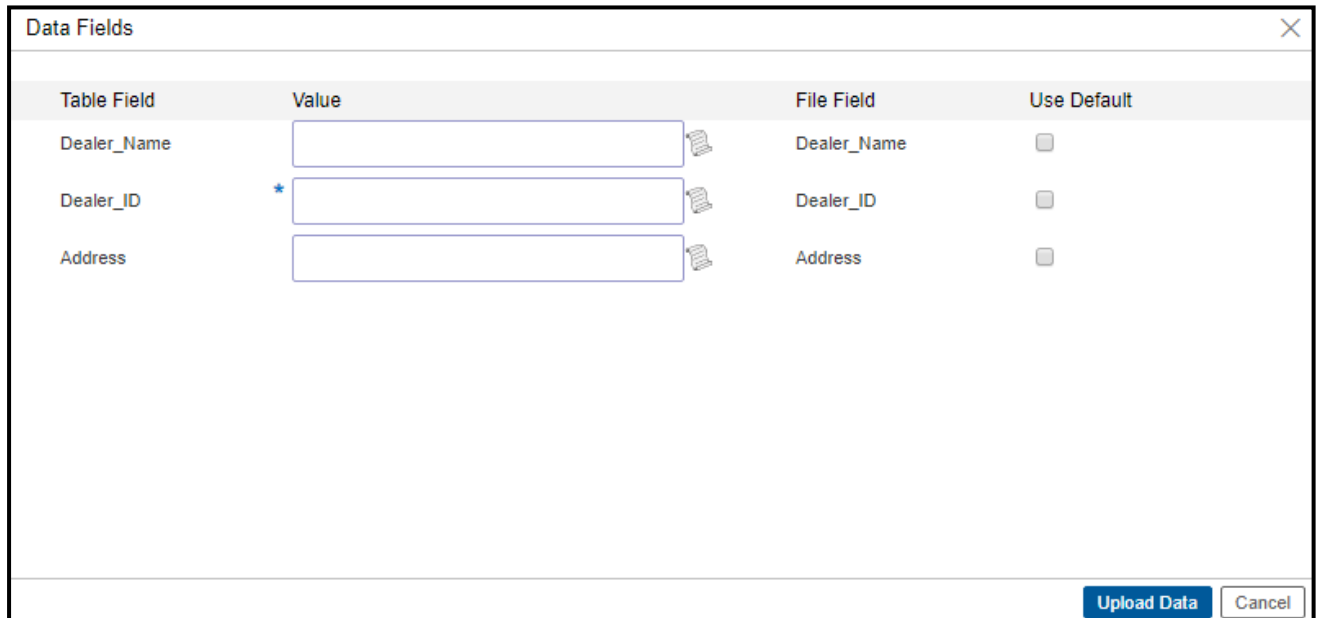
The screenshot shows the Data tab of the web interface. It displays a table named 'Dealership_List' with columns: Dealer_Name, Dealer_ID, and Address. The table contains five rows of data. At the bottom, there are buttons for 'Download Data', 'Upload Data', and 'Commit'. The 'Upload Data' button is highlighted.

Dealer_Name	Dealer_ID	Address
Risabh Toyota	0101	
Aditya Hyundai	0189	
Magadh General Motors	033	
Krishna Auto Parts	044	

Figure 5.6

10. Data Fields dialog box appears.

11. In case the user wishes to upload certain value as a default value in a table column, check the **Default Value** checkbox for the column name.



The 'Data Fields' dialog box is shown with a close button (X) in the top right corner. It contains a table with four columns: 'Table Field', 'Value', 'File Field', and 'Use Default'. The table has three rows of data. The 'Value' column contains text input fields, with a blue asterisk (*) next to the 'Dealer_ID' field. The 'File Field' column contains text labels. The 'Use Default' column contains checkboxes. At the bottom right, there are 'Upload Data' and 'Cancel' buttons.

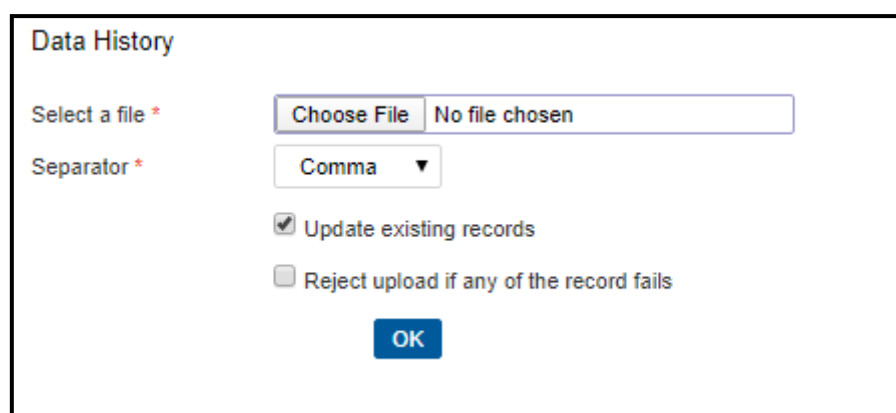
Table Field	Value	File Field	Use Default
Dealer_Name	<input type="text"/>	Dealer_Name	<input type="checkbox"/>
Dealer_ID	* <input type="text"/>	Dealer_ID	<input type="checkbox"/>
Address	<input type="text"/>	Address	<input type="checkbox"/>

Upload Data Cancel

Figure 5.7

12. Click on **Upload Data**.

13. Data History screen appears.



The 'Data History' dialog box is shown. It has a title bar 'Data History'. Below the title bar, there are two labels: 'Select a file *' and 'Separator *'. The 'Select a file *' label is followed by a 'Choose File' button and a text box containing 'No file chosen'. The 'Separator *' label is followed by a dropdown menu showing 'Comma'. Below these, there are two checkboxes: 'Update existing records' (checked) and 'Reject upload if any of the record fails' (unchecked). At the bottom center, there is an 'OK' button.

Select a file * Choose File No file chosen

Separator * Comma

☒ Update existing records

☐ Reject upload if any of the record fails

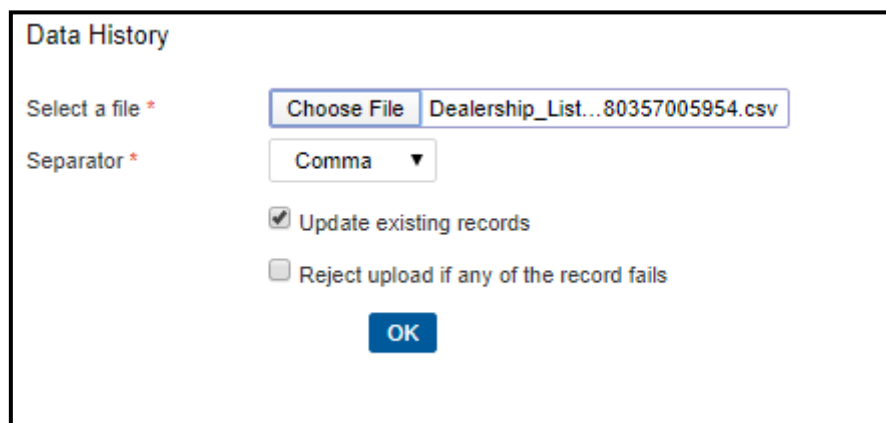
OK

Figure 5.8

14. Click on **Choose File** to select a file.

15. Select a **Separator**.

16. Check the checkbox **Reject upload if any of the record fails** if the complete data has to be uploaded in one go, in case any erroneous record is found.
17. Click on **OK**.



The 'Data History' dialog box contains the following elements:

- Select a file ***: A text field with a 'Choose File' button and the filename 'Dealership_List...80357005954.csv'.
- Separator ***: A dropdown menu currently set to 'Comma'.
- ☒ **Update existing records**
- ☐ **Reject upload if any of the record fails**
- OK** button

Figure 5.9

18. The table is now updated with the new values. Click on **Data** tab to view the updated table data.
 - To save the data in the database, click on **Commit**



The 'Data' tab interface for the 'Dealership_List' table shows a table with the following data:

	Dealer_Name	Dealer_ID	Address
<input type="checkbox"/>	Risabh Toyota	0101	
<input type="checkbox"/>	Aditya Hyundai	0189	
<input type="checkbox"/>	Magadh General Motors	033	
<input type="checkbox"/>	Krishna Auto Parts	044	
<input type="checkbox"/>	FirstChoice	301	
<input type="checkbox"/>	Deepak Auto Dealer	302	
<input type="checkbox"/>	Madras Auto Center	303	
<input type="checkbox"/>	Sai Auto Mobile Limited	304	

At the bottom of the interface, there are buttons for 'Download Data', 'Upload Data', and 'Commit'.

Figure 5.10

19. User can also click on the log file link to view the log report.

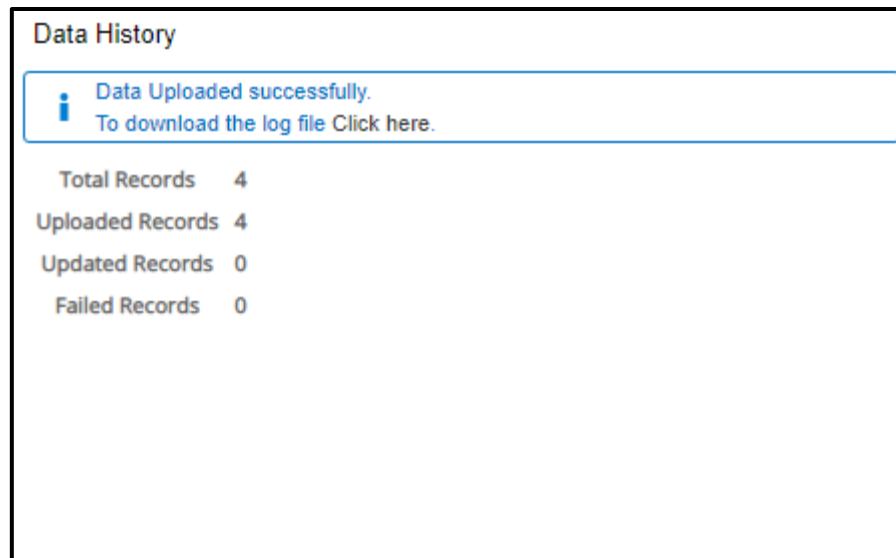



Figure 5.11

20. Click on  (**View data history**) to view data history associated with the selected data record.

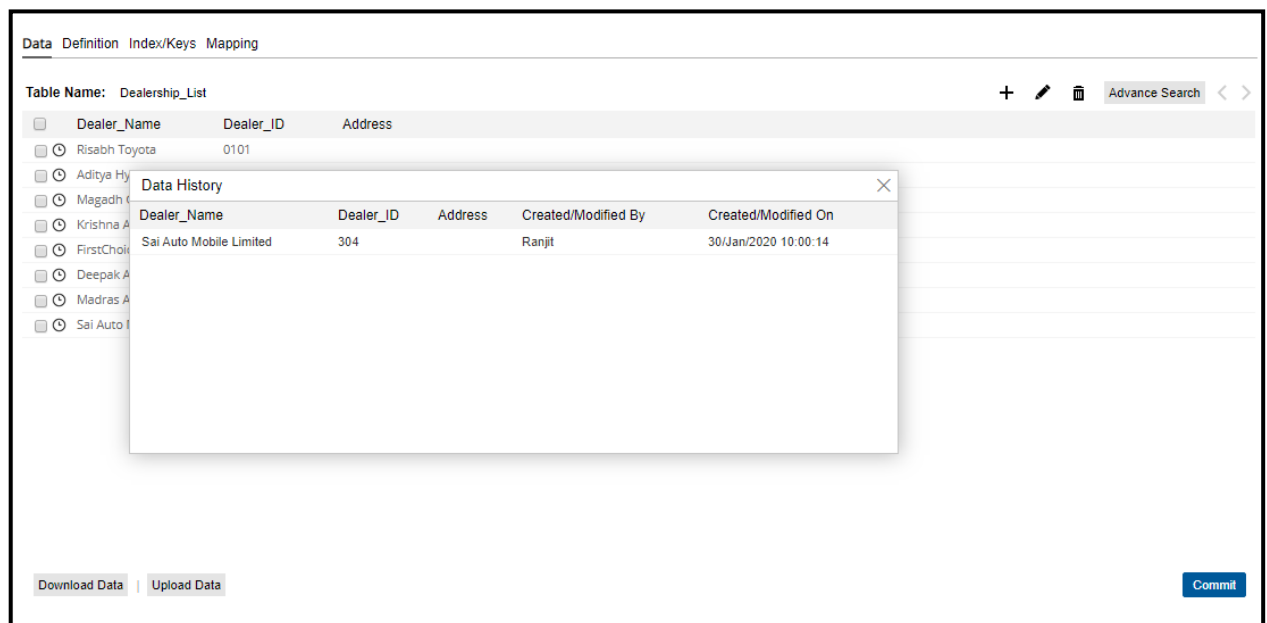


Figure 5.12

5.2 Define Mapping

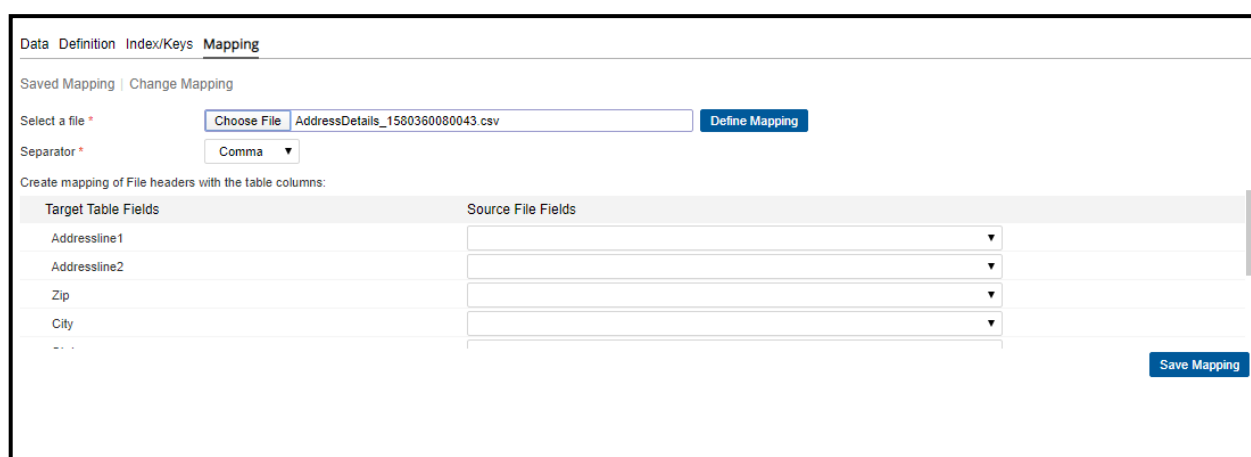
Define Mapping is used to create a mapping of the uploaded data fields with the existing columns of the added table.

To Define Mapping:

1. Open the required table and click on the **Mapping** tab.
2. Click on **Choose File** to select the file to upload.
3. Select a **Separator** which user has used in the CSV file.

NOTE:

If the file is of type other than excel, the user needs to enter the file separator (you can specify the type of separator which will be used to differentiate between the two values in a file) in the small textbox shown on the screen.



The screenshot displays the 'Mapping' tab in a software interface. At the top, there are tabs for 'Data', 'Definition', 'Index/Keys', and 'Mapping'. Below these, there are links for 'Saved Mapping' and 'Change Mapping'. The 'Select a file' section includes a 'Choose File' button, a text box containing 'AddressDetails_1580360080043.csv', and a 'Define Mapping' button. The 'Separator' section has a dropdown menu currently set to 'Comma'. Below this, a section titled 'Create mapping of File headers with the table columns:' contains a table with two columns: 'Target Table Fields' and 'Source File Fields'. The 'Target Table Fields' column lists 'Addressline1', 'Addressline2', 'Zip', and 'City'. The 'Source File Fields' column has corresponding dropdown menus for each. A 'Save Mapping' button is located at the bottom right of the table area.

Target Table Fields	Source File Fields
Addressline1	
Addressline2	
Zip	
City	

Figure 5.13

4. Click on **Define Mapping**.
5. On successful reading of the file, the header names of the file are populated in the **Source File Fields** dropdowns in front of each table column name in the mapping table section.
6. User is allowed to map Target Table Fields with Source File Fields.
7. Create the mappings of the table columns with the file headers by selecting the appropriate value from the dropdown.

Data Definition Index/Keys **Mapping**

Saved Mapping | Change Mapping

Select a file * No file chosen

Separator * ▼

Create mapping of File headers with the table columns:

Target Table Fields	Source File Fields
Addressline1	Addressline1 ▼
Addressline2	Addressline1
Zip	Addressline2
City	Zip
State	City
	State
	OccupancyStatus
	Years
	Months
	AddressDetailID

Figure 5.14

5.3 Save Mapping

Save Mapping is used to save the mapping of the attached CSV fields with Target table columns.

To Save Mapping:

1. After Define Mapping as explained above, click on **Save Mapping**.
2. The system displays a screen with **Saved Mapping** and **Changed Mapping** tabs.
3. The system displays Source File Fields in read only mode in Saved Mapping.

Data Definition Index/Keys Mapping

Saved Mapping **Change Mapping**

Mapping defined for the table:

Target Table Fields	Source File Fields
Addressline1	Addressline1
Addressline2	Addressline2
Zip	Zip
City	City
State	State

Figure 5.15

5.4 Change Mapping

Change Mapping is used to change the existing saved mapping of the attached file fields with target table columns.

To Change Mapping:

1. Click on **Change Mapping** tab.
2. The system again allows the user to select a file to upload and map the attached file fields with the target table columns.

Target Table Fields	Source File Fields
Addressline1	
Addressline2	
Zip	
City	

Figure 5.16

5.5 Clear Mapping

Clear Mapping is used to clear the already saved mapping of the attached file fields with the target table columns.

To Clear Mapping:

1. Click on **Saved Mapping** tab.
2. Click on **Clear Mapping**.

Target Table Fields	Source File Fields
Addressline1	Addressline1
Addressline2	Addressline2
Zip	Zip
City	City
State	State

Figure 5.17

3. The system again allows the user to select a file to upload and map the attached file fields with the target.

5.6 Upload Data in Maker Checker Environment

The initial steps for mapping the file are the same as explained above. The only difference is that after **Upload Data** is done, the user is required to click on **Send For Approval** in a maker checker environment. To view the table with the updated data, the table has to be approved by the checker. Once the table is **Send For Approval**, it appears in **Items for Approval** section of the checker user(s).

The steps to approve uploaded data from Items for Approval screen are:

1. Login to **MDM** with the checker's credentials.
2. Click the **Items Waiting for Approval** link to open the list of tables.
3. Click **Modified Data** tab to open the list of tables which contain modified data.
4. Select the required table checkbox.

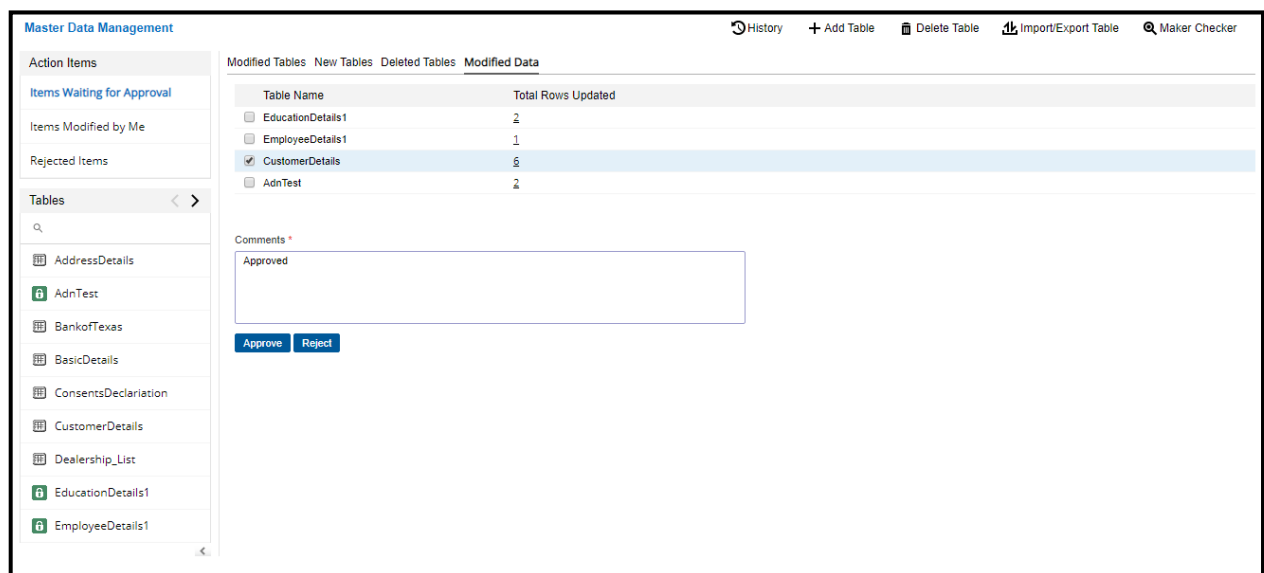


Figure 5.18

5. Enter your comments in **Comments** textbox.
6. Click on **Approve** to upload the data and save it to the underlying table in database.

6

Download & Upload Data

This chapter consists of:

- Download Data
- Upload Data

6.1 Download Data

Download Data option is used to download MDM table records on a user's system.

To Download Data:

1. Open a table and go to its **Data** tab.
2. Click on **Download Data**, appearing at the bottom of the data table.

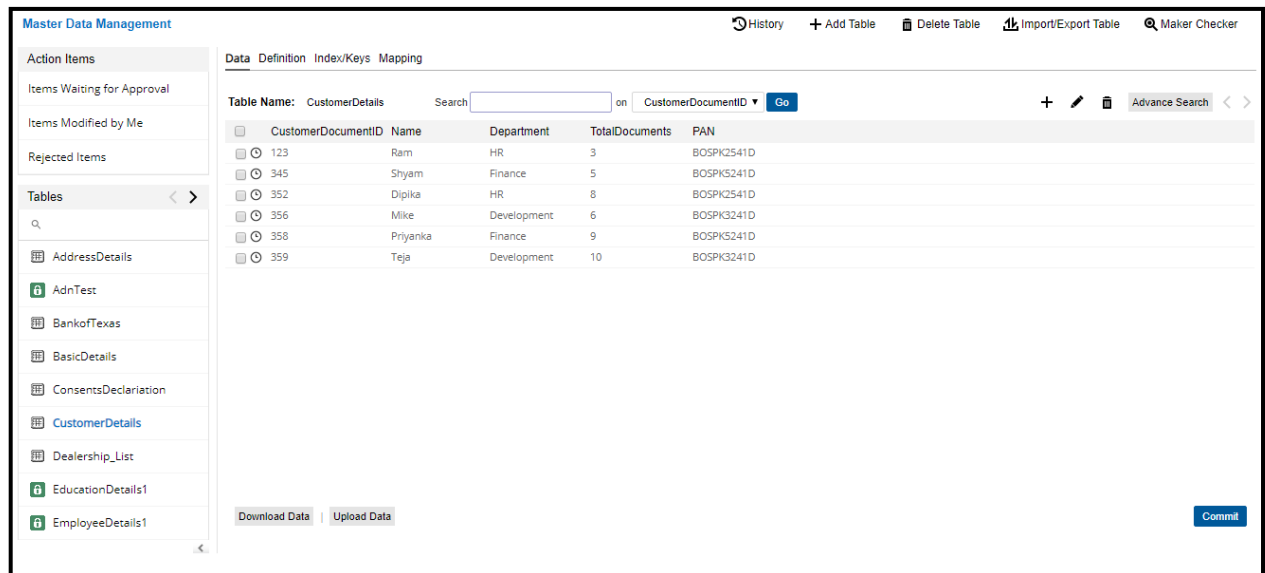


Figure 6.1

3. Download Data Options dialog box appears.
4. Enter the **CSV Separator**.
5. Click on **OK**.
6. Data of the selected table is downloaded in a CSV format.

Data
Definition
Index/Keys
Mapping

Table Name: CustomerDetails
Search
on
CustomerDocumentID
Go
+
Advance Search

	CustomerDocumentID	Name	Department	TotalDocuments	PAN
<input type="checkbox"/>	123	Ram	HR	3	BOSPK2541D
<input type="checkbox"/>	345	Shyam	Finance	5	BOSPK5241D
<input type="checkbox"/>	352	Dipika	HR	8	BOSPK2541D
<input type="checkbox"/>	356	Mike	Development	6	BOSPK3241D
<input type="checkbox"/>	358	Priyanka	Finance	9	BOSPK5241D
<input type="checkbox"/>	359	Teja	Development	10	BOSPK3241D

Download Data Options
☒ CSV
Separator
OK

Commit

Figure 6.2

6.2 Upload Data

Upload Data option is used to upload data from the user's machine to MDM database in a CSV format.

Refer section [Upload Bulk Data in MDM](#).

7

Maker Checker

This chapter consists of:

- Enable Maker Checker

7.1 Enable Maker Checker

Maker Checker is used to approve/reject requests sent by users.

There are two terms used in MDM:

1. **Maker** – Maker is the user who is responsible for sending requests for approval to the supervisor users.
2. **Checker** - Checker is the user who is responsible for approving the requests sent by other users.

Following two Maker Checker functionalities are available. To view these functions, click on Maker Checker link.

- **Global Maker Checker**
- **Table Level Maker Checker**

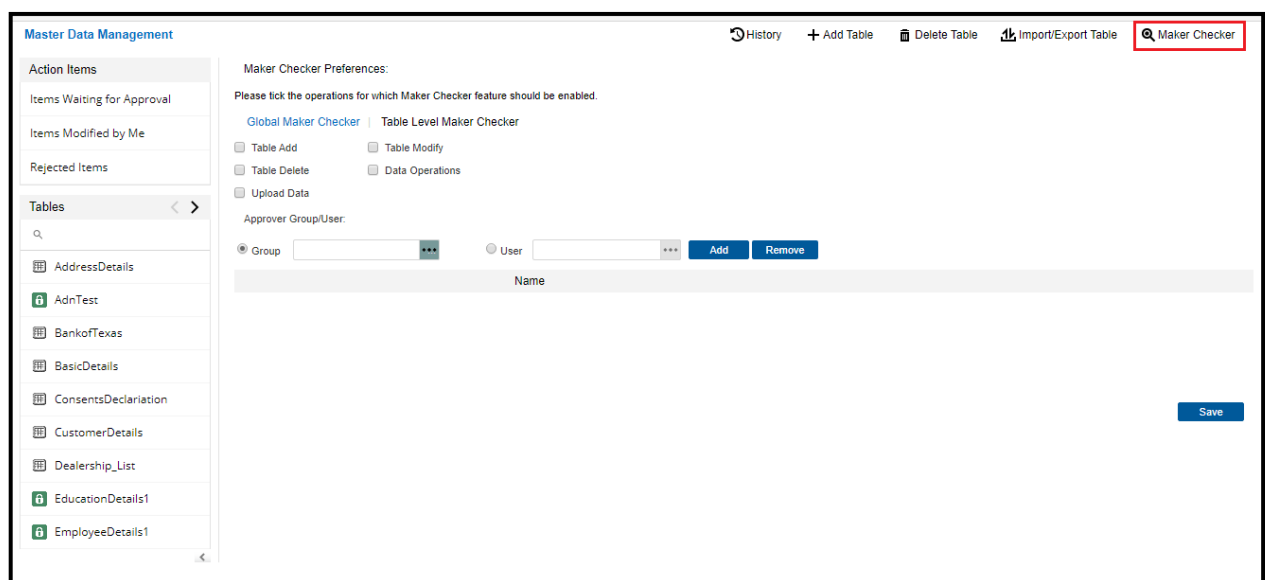


Figure 7.1

Global Maker Checker

Using this, the user can enable Maker Checker functionality on the selected functionalities/complete Master Data Management system.

Enable Global Maker Checker:

1. In this system preference screen, the user can choose to Enable/Disable the Maker checker process for the following operations:
 - Table Add
 - Table Modify
 - Data Operations
 - Table Delete
 - Upload Data
2. To enable the Maker Checker for any of the above mentioned operations, select the checkbox of the respective operations.
3. Similarly, to disable an already enabled Maker Checker, uncheck the checkbox against the enabled operations.
4. Select the **Approver Group/User** by clicking on the ellipsis present in front of it.
5. Depending on the options selected, **Select Group/Select User** list appears.
6. Select the required **Groups** or **Users**.

The screenshot displays the 'Maker Checker Preferences' interface. At the top, it says 'Please tick the operations for which Maker Checker feature should be enabled.' Below this, there are two tabs: 'Global Maker Checker' (active) and 'Table Level Maker Checker'. Under the 'Global Maker Checker' tab, there are five checkboxes, all of which are checked: 'Table Add', 'Table Modify', 'Table Delete', 'Data Operations', and 'Upload Data'. Below the checkboxes, there is a section for 'Approver Group/User'. It has two radio buttons: 'Group' and 'User'. The 'User' radio button is selected. To the right of the radio buttons are two input fields with ellipsis icons, and two buttons: 'Add' and 'Remove'. A 'Select User' modal is open, showing a list of users: 'admin (New User)', 'adnan (New User)', 'adntest (adn55)', 'ambuj (New User)' (highlighted), 'arj (arj)', 'avi (avi)', and 'avijit (avijit)'. There are also input fields for 'User ID' and 'User Name', and a 'Group Name' field with a 'Go' button. A 'Save' button is located at the bottom right of the main form.

Figure 7.2

7. Click on **Add** to add the selected user or group.

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

[Global Maker Checker](#) | [Table Level Maker Checker](#)

☒ Table Add
 ☒ Table Modify

☒ Table Delete
 ☒ Data Operations

☒ Upload Data

Approver Group/User:

☒ Group
☐ User



	Name
<input type="checkbox"/>	 ambuj
<input type="checkbox"/>	 MDM Users

Figure 7.3

- Click on **Save** to enable the Maker Checker for the selected operations.

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

✓ Maker Checker has been set successfully.

[Global Maker Checker](#) | [Table Level Maker Checker](#)

☒ Table Add
 ☒ Table Modify

☒ Table Delete
 ☒ Data Operations

☒ Upload Data

Approver Group/User:

☒ Group
☐ User



	Name
<input type="checkbox"/>	 ambuj
<input type="checkbox"/>	 MDM Users

Figure 7.4

Enable Table Level Maker Checker:

Using this, the user can enable Maker Checker functionality on selected Table/ on all Tables of Master Data Management system.

Enable Table Level Maker Checker Process:

- Click on **Table Level Maker Checker** tab.
- Table Level Maker Checker** screen appears.

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

Global Maker Checker | **Table Level Maker Checker**

... Add Remove

Name	Modify Table	Delete Table	Data Operations	Upload Data	Approver List

Save

Figure 7.5

- Click on the ellipsis to open the list of tables.
- Table List** appears.

Master Data Management

History + Add Table Delete Table Import/Export Table Maker Checker

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

Global Maker Checker | **Table Level Maker Checker**

... Add Remove

Select Table

- AddressDetails (AddressDetails)
- AdnTest (AdnTest)
- BankofTexas (BankofTexas)
- BasicDetails (BasicDetails)
- ConsentsDeclaration (ConsentsDeclaration)
- CustomerDetails (CustomerDetails)
- Dealership_List (Dealership_List)
- Doclistcontrol1 (Doclistcontrol1)

Name	Modify Table	Delete Table	Data Operations	Upload Data	Approver List

Save

Figure 7.6

- Double-click on the required table to select it.
- Click on **Add**.

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

Global Maker Checker | Table Level Maker Checker

BankofTexas (Bankof) ... [Add](#) [Remove](#)

Name	Modify Table	Delete Table	Data Operations	Upload Data	Approver List

[Save](#)

Figure 7.7

7. The added table appears in the Maker Checker list.

Maker Checker Preferences:

Please tick the operations for which Maker Checker feature should be enabled.

Global Maker Checker | [Table Level Maker Checker](#)

... [Add](#) [Remove](#)

Name	Modify Table	Delete Table	Data Operations	Upload Data	Approver List
<input type="checkbox"/> BankofTexas (BankofTexas)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> ...

[Save](#)

Figure 7.8

8. Select the checkboxes against the operations that are to be enabled for the maker checker.
9. Select approvers from **Approver List**.
 - i. Select the **Approver Group/User** by clicking on the present in front of it.
 - ii. Click on the ellipsis present in front of them.
 - iii. **Select Group/Select User** list appears.
 - iv. Select the required **Group/User**.
 - v. Click on **Save** to save the approvers.

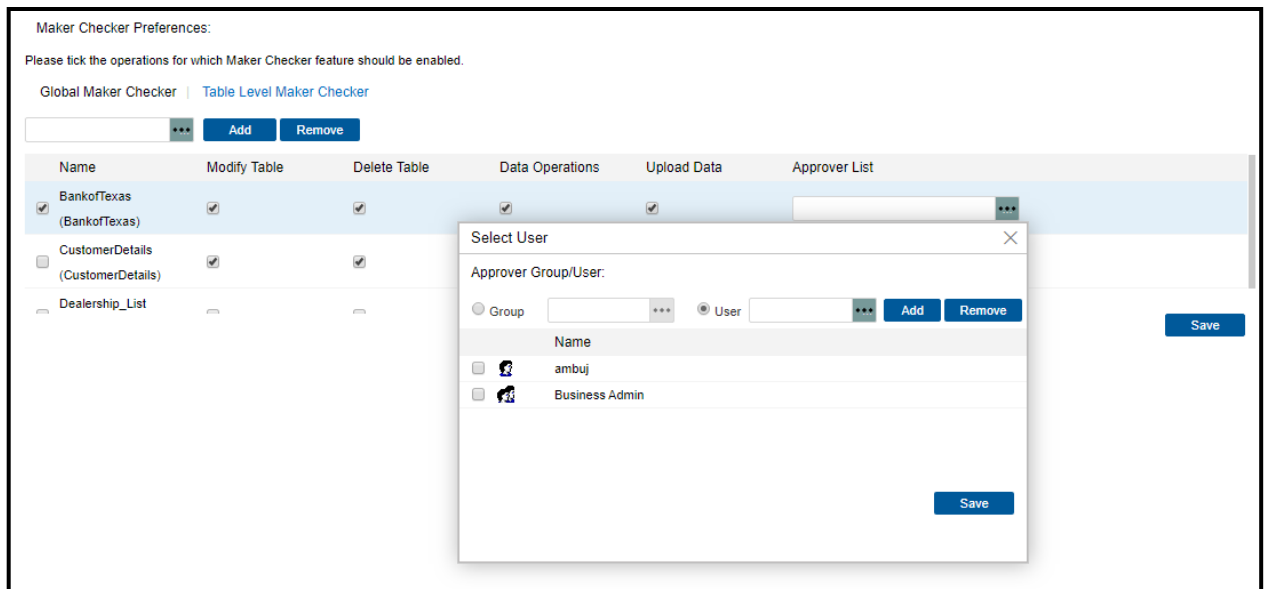


Figure 7.9

10. Click on **Save**.

11. **Maker Checker has been set successfully** message appears.

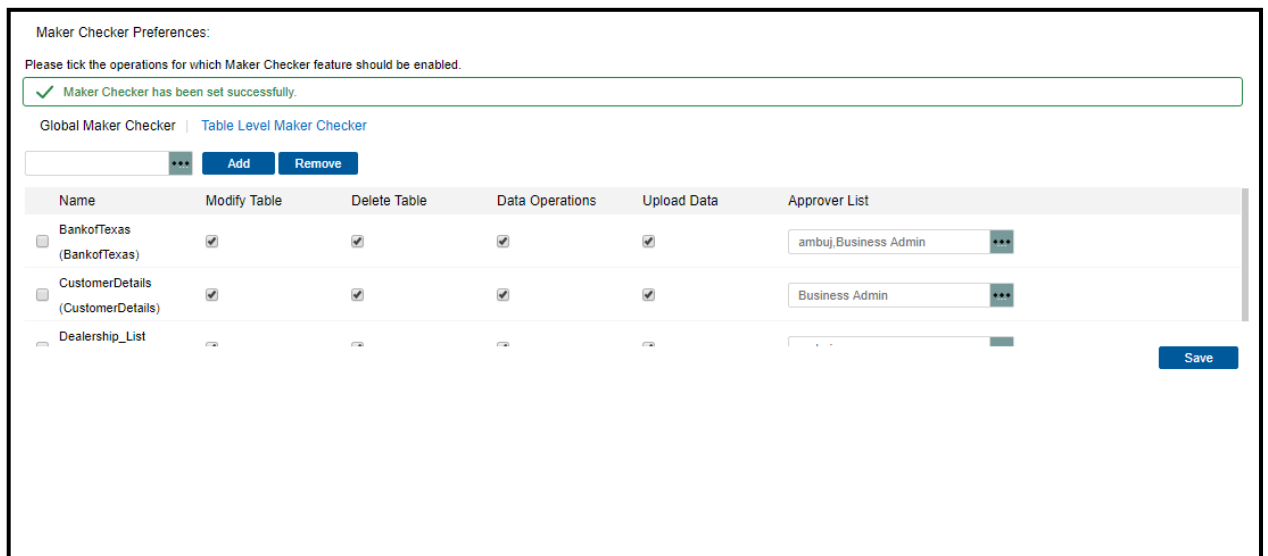


Figure 7.10

8

Action Items

This chapter consists of:

- Items Waiting for Approval
- Items Modified by Me
- Rejected Items

Action Items

The Action Items are the points of attention for the logged-in user to take action upon. The Action items are displayed on the top of the left panel of the screen. These Action items are divided into three sections.

1. Items Waiting for Approval
2. Items Modified by Me
3. Rejected Items

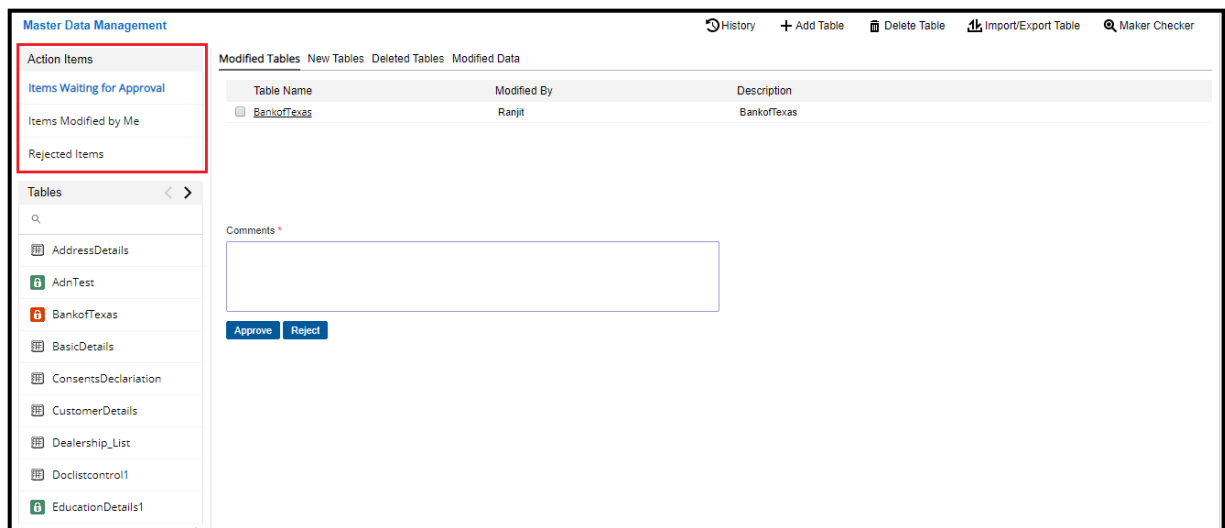


Figure 8.1

8.1 Items Waiting for Approval

The Items Waiting for Approval screen shows all the Items for which Action needs to be taken, either for Approval or Rejection.

The Items Waiting for Approval screen consists of four tabs:

1. Modified Tables	2. New Tables	3. Deleted Tables	4. Modified Data
------------------------------------	-------------------------------	-----------------------------------	----------------------------------

When a user performs an operation that has Maker checker process enabled, then that operation needs to be approved by another user, before those operations could be accepted and saved in the system. The operation could be adding a new table, modifying a table, deleting a table or modifying the data. Whenever any of the above mentioned operations are done with the Maker Checker enabled, then the Approval process needs to be completed.

8.1.1 Modified Tables

When a Table is modified by a user (and if the Table Modify operation has the Maker checker process enabled), then the Table name and the user who had modified it, along with the comments are displayed in the Tabular column in the Modified Table tab as shown below:

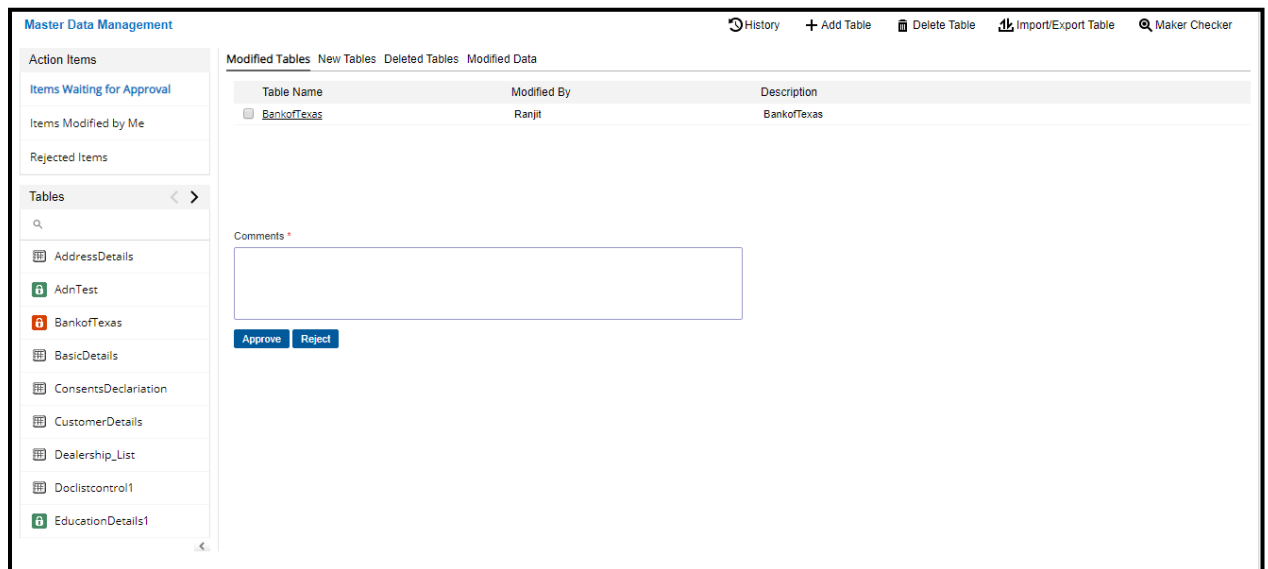


Figure 8.2

The Bottom of the screen consists of a Comments Text Area, Approve and Reject (options to approve or reject the operation, i.e., approve the modifications made in the table or reject the modification). Approving the Table Modification process will save the changes made in the table and rejecting the table will discard the changes. The rows/values of the Column “Table Name “in the Tabular column is hyperlinked and the user would click on the row to view the detail of the changes made in the table.

The screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in two sub-tabs, i.e., Definition and Index/Keys.

Definition
Index/Keys

Table Name: BankofTexas **Table Alias Name:** BankofTexas
Description: BankofTexas
Portal Table ☐

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	
<input type="checkbox"/> DateOfBirth		Date	255	N	N	N	N	N	
<input type="checkbox"/>	

Comments

Approve
Reject
Back

Figure 8.3

Definition: This sub-tab displays the various Columns of the table modified. These are:

1. Field Name - Name of the Field
2. Field Alias - Column Name displayed in Data Tab instead of the actual field name.
3. Field Type - Text/Integer/ Long/Float/Date
4. Field Length - Length of the Field
5. Mandatory - Yes or No
6. Unique - Yes or No
7. Identity - Yes or No
8. Filter - Yes or No
9. Hidden - Yes or No
10. Default - if the user has provided any default value for the column.

The Bottom of the screen consists of a **Comments** Tex Area, **Approve**, **Reject** (options to approve or reject the operation, i.e. approve the modifications made in the table or reject the modification) and **Back**. Approving the Modification process will save the changes made in the table and rejecting the table will discard the changes.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table that has been modified. And at the Bottom of the Page consists of a Comments Tex Area, Approve Button and Reject Button, (options to Approve or Reject the operation, i.e. approve the

modifications made in the table or reject the modification). Approving the Table Modification process will save the changes made in the table and rejecting the table will discard the changes.

Definition | **Index/Keys**

Table Name: BankofTexas Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table ☐

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	PK_PUHL3LMIXEAOV45_1	PrimaryKey	CustID		

Comments

Figure 8.4

8.1.2 New Tables

When a new Table is added by a user [And if the Table Add operation has the Maker checker process enabled], then the Table name and the user who added it, along with the comments are displayed in the Tabular column in the Modified Table Tab as shown below, for the Approval process.

Modified Tables | **New Tables** | Deleted Tables | Modified Data

Table Name	Created By	Description
<input type="checkbox"/> SavingsAccount	Ranjit	This table is created for savings account details.
<input type="checkbox"/> SchoolsList	Ranjit	The list of schools

Comments *

Figure 8.5

The bottom of the screen consists of a **Comments** Tex Area, **Approve** Button and **Reject** Button, [options to Approve or Reject the operation, i.e. approve the newly added table or reject the

Addition]. Approving the Table addition process will save the new table and rejecting the table will discard the changes.

The rows/values of the Column “Table Name “in the Tabular column is hyperlinked and the user would click on the row to view the details of the new table added.

The screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in two sub-tabs, i.e., Definition and Index/Keys.

The screenshot shows a web interface for table definition. At the top, there are two tabs: 'Definition' (selected) and 'Index/Keys'. Below the tabs, the 'Table Name' is 'Savings Account' and the 'Table Alias Name' is also 'Savings Account'. A description states: 'This table is created for savings account details.' There is a checkbox for 'Portal Table' which is currently unchecked. Below this is a table with the following columns: Field Name, Field Alias, Field Type, Field Length, Mandatory, Unique, Identity, Filter, Hidden, and Default. The table contains three rows of data: 'Name' (String, 255, N, N, N, N, N), 'Address' (String, 255, N, N, N, N, N), and 'AccountNumber' (String, 255, Y, N, N, N, N). Below the table is a 'Comments' section with a text area. At the bottom, there are three buttons: 'Approve', 'Reject', and 'Back'.

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
Name		String	255	N	N	N	N	N	
Address		String	255	N	N	N	N	N	
AccountNumber		String	255	Y	N	N	N	N	

Figure 8.6

Definition: This sub-Tab displays the various Columns of the table being added. The Columns are:

- Field Name - Name of the Field
- Field Alias – Column Name displayed in Data Tab instead of the actual field name.
- Field Type – Text/Integer/ Long/Float/Date
- Field Length - Length of the Field
- Mandatory – Yes or No
- Unique – Yes or No
- Identity – Yes or No
- Filter – Yes or No
- Hidden – Yes or No
- Default Value – if the user has provided any default value for the column.

The bottom of the screen consists of a **Comments** Text Area, **Approve** Button, **Reject** Button and **Back** button, [options to Approve or Reject the operation, i.e. approve the newly added table or reject the Addition]. Approving the Table addition process will save the new table and rejecting the table will discard the changes.

Index/Keys: This sub-Tab contains the Primary keys and the columns that have been indexed in the Table that has been added. And at the Bottom of the Page consists of a Comments Text Area, Approve Button and Reject Button, [options to Approve or Reject the operation, i.e., approve the newly added table or reject the Addition]. Approving the Table addition process will save the new table and rejecting the table will discard the changes.

Definition | Index/Keys

Table Name: Savings Account **Table Alias Name:** Savings Account
Description: This table is created for savings account details.

Portal Table ☐

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	PK_3YSFT1RCSRDZ1AJ_1	PrimaryKey	AccountNumber		

Comments

Approve Reject Back

Figure 8.7

8.1.3 Deleted Tables

When a Table is deleted by a user [And if the Table Delete operation has the Maker checker process enabled], then the Table name and the user who deleted it, along with the comments are displayed in the Tabular column in the Modified Table Tab as shown below, for the Approval process.

Table Name	Deleted By	Description
NewTable	Ranjit	qa
EducationDetails1	Ranjit	Created by pankaj
AdnTest	Ranjit	qwerty

Comments *

Figure 8.8

The bottom of the Page consists of a Comments Text Area, Approve Button and Reject Button, [options to Approve or Reject the operation, i.e., approve the deleted table or reject the deletion]. Approving the Table deletion process deletes the table and rejecting the table discards the changes. The rows/values of the Column “Table Name” in the Tabular column is hyperlinked and the user would click on the row to view the details of the deleted table being deleted.

The screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in two sub-tabs, i.e., Definition and Index/Keys.

Definition | Index/Keys

Table Name: EducationDetails1 Table Alias Name: EducationDetails1

Description: Created by pankaj

Portal Table ☒

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> Qualification		String	255	N	N	N	N	N	
<input type="checkbox"/> YearofPassing		Date	255	N	N	N	N	N	
<input type="checkbox"/> JoiningDate		Date	255	N	N	N	N	N	
<input type="checkbox"/> University		String	255	N	N	N	N	N	

Comments

Figure 8.9

Definition: This sub-Tab displays the various Columns of the table being deleted. The columns are:

• Field Name - Name of the Field	• Field Alias - Column Name displayed in Data Tab instead of the actual field name.
• Field Type – Text/Integer/ Long/Float/Date	• Field Length - Length of the Field
• Mandatory – Yes or No	• Unique – Yes or No
• Identity – Yes or No	• Filter – Yes or No
• Hidden – Yes or No	• Default Value – if the user has provided any default value for the column.

The bottom of the page consists of a Comments Tex Area, Approve Button Reject Button, [options to Approve or Reject the operation, i.e., approve the newly deleted table or reject the deletion] and Back button. Approving the Table deletion process will delete the table and rejecting the table will discard the changes.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table that has been deleted. And at the Bottom of the Page consists of a Comments Tex Area, Approve Button and Reject Button, [options to Approve or Reject the operation, i.e., approve the newly added table or reject the Addition] and Back button. Approving the Table addition process will delete the table and rejecting the table will discard the changes.

Definition | Index/Keys

Table Name: EducationDetails1 **Table Alias Name:** EducationDetails1
Description: Created by pankaj
Portal Table ☒

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	FK_YQATLDGWYD93VJC_2	ForeignKey	EducationDetailsID	parenttable3	TransactionID
<input type="checkbox"/>	PK_YBQJ9ZILGKVUD4H_1	PrimaryKey	EducationDetailsID		

Comments

Approve Reject Back

Figure 8.10

8.1.4 Modified Data

When the data of a table is modified by a user (And if the Data operation has the Maker checker process enabled), then the Table Name and Total Rows Updated that have been modified, are displayed in the Tabular column in the Modified Data tab as shown below:

The screenshot shows a web interface with a tab labeled "Modified Data". Below the tab is a table with two columns: "Table Name" and "Total Rows Updated". The table contains one row with the value "Material_Purchased" under "Table Name" and "2" under "Total Rows Updated". Below the table is a "Comments *" text area and two buttons: "Approve" and "Reject".

Table Name	Total Rows Updated
Material_Purchased	2

Figure 8.11

The bottom of the screen consists of a Comments Text Area, Approve button and Reject button, (options to Approve or Reject the operation, i.e., approve the data modification in the table or reject the modification). Approving the data modification process will modify the data in the table and rejecting the data will discard the changes.

The rows/values of the Column "Total Rows updated" in the Tabular column is hyperlinked and the user would click on the row to view the details of the rows being modified.

The screen below opens upon clicking the rows/values of the Column "Total Rows updated", which consists of the details of the Rows that have been modified as shown below.

The screenshot shows a web interface with a dropdown menu set to "All Data" and a "Go" button. Below is a table with columns: "ApplicationName", "UserName", "Stage", and "TransactionID". The table contains seven rows of data. Below the table is a "Comments *" text area and three buttons: "Approve", "Reject", and "Back".

ApplicationName	UserName	Stage	TransactionID
Application22Jan2020	pankaj	0:0	2401228080
Application22Jan2020	pankaj	0:0	2401228080
Application22Jan2020	priti	0:0	2401280701
Application22Jan2020	priti	0:0	2401280701
Application22Jan2020	priti	1:null	2401284502
Application22Jan2020	priti	1:null	2401284502
Application22Jan2020	priti	2:null	2401286150

Figure 8.12

The bottom of the Page consists of a Comments Text Area, Approve Button Reject Button, [options to Approve or Reject the operation, i.e., approve the newly deleted table or reject the deletion] and Back button. Approving the Table deletion process will delete the table and rejecting the table will discard the changes.

NOTE:

All the Items Awaiting for Approval are view-only data and cannot be modified.

It is Mandatory to input Comments whenever the operation is being rejected or approved.

8.2 Items Modified by Me

The “Items Modified by Me” screen opens up with the all Items which have been modified by the logged-in user but yet to send it for the approval process. This step is defined as “committed”, where the user has done the modification but, not sent for approval, due to pending changes.

The Items Modified by Me screen consists of two tabs:

- Modified Tables.
- New Tables

When the logged-in user performs an operation that has Maker checker process enabled, then that operation needs to be approved by another user, before those operations could be accepted and saved in the system. And when the user wants to wait before sending it for the approval process, then the option “committed” is chosen, where these changes are displayed in the tab “Items Modified by Me” and the user can further make modifications here before sending it for approval.

8.2.1 Modified Tables

When a Table is modified by the user and committed [and if the Table Modify operation has the Maker checker process enabled], then the Table name and the user who modified it, along with the description are displayed in the Tabular column in the Modified Table tab.

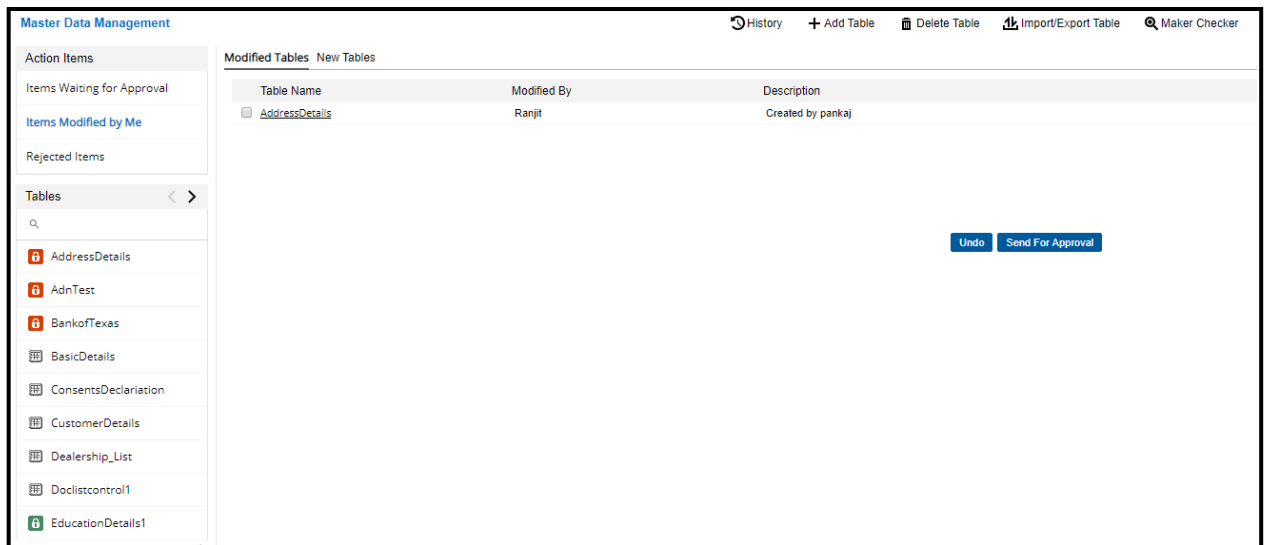


Figure 8.13

The bottom of the page consists of **Undo** and **Send For Approval** buttons. When clicked on the Undo button, the modifications are discarded and the “Send For Approval” will send the modification of the table for the approval process.

The rows/values of the Column “Table Name” in the Tabular column is hyperlinked and the user would click on the row to view the detail of the changes made in the table and to do further modifications.

The screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in 3 sub-Tabs, i.e., Definition, Index/Keys and Rights.

The screenshot shows the 'Definition' tab for the 'AddressDetails' table. It includes fields for 'Table Name' (AddressDetails), 'Table Alias Name' (AddressDetails), 'Description' (Created by pankaj), and a checked 'Portal Table' checkbox. Below these is a table of fields with columns: Field Name, Field Alias, Field Type, Field Length, Mandatory, Unique, Identity, Filter, Hidden, and Default. The 'Add Column' section at the bottom allows adding new fields with various constraints and options.

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
Addressline1		String	255	Y	N	N	N	N	
Addressline2		String	255	Y	N	N	N	N	
PinCode		String	255	N	N	N	N	N	
City		String	255	Y	N	N	N	N	

Add Column

Field Name *

Field Type

Constraints ☐ Identity ☐ Unique ☐ Mandatory

Default Value

Field Length *

Field Alias

Custom Picklist ☐

Picklist

☐ Allow Searching ☐ Non Modifiable

☐ Read Only ☐ Hidden

☐ Trim Data

Figure 8.14

Definition: This sub-tab displays the various Columns of the table modified. The Columns are:

1. Field Name - Name of the Field
2. Field Alias – Column Name displayed in Data Tab instead of the actual field name.
3. Field Type: Text/Integer/ Long/Float/Date
4. Field Length - Length of the Field
5. Mandatory – Yes or No
6. Unique – Yes or No
7. Identity – Yes or No
8. Filter – Yes or No
9. Hidden – Yes or No
10. Default Value – if the user has provided any default value for the column.

The Tabular column displays the above mentioned columns of the table with a hyperlink on the rows of the column “Table Name”. Clicking on a row will display the specification of the column at the bottom and the user can further make modifications there.

- The rows that are in **Red** are those rows that have been deleted
- The rows that are in **Green** are those rows that have been modified
- The rows that are in **Blue** are those rows that have been added
- The rows that are in **Black** are those rows that are untouched

The bottom of the table consists of three buttons, “Generate Index”, “Primary Key”, and “Delete”. Selecting the row(s) of the Column [Except the Red ones, which are deleted] in the above table, and clicking the Generate Index button, will generate the index for that particular row(s) which will be displayed in the next sub-tab “Index/Keys”.

The bottom part of the page consists of Add new column option for the users to add new columns and then at the bottom of the page there are 3 buttons, “Commit”, “Send for approval” and “Back”. When clicked on the Commit button, the modifications are saved, and the “send for approval” will send the modification of the table for the Approval process. The Back button will take the user to the previous screen.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table that has been modified. The bottom of the Table consists of a Delete button. Selecting a row and then clicking on Delete will delete the Index of the row.

Definition | Index/Keys

Table Name: AddressDetails Table Alias Name: AddressDetails

Description: Created by pankaj

Portal Table ☒

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	FK_2PNDRFK3E0HQNES_2	ForeignKey	AddressDetailsID	ParentTable2	TransactionID
<input type="checkbox"/>	PK_3KBXYZBX62T2GQB_1	PrimaryKey	AddressDetailsID		

Commit Send For Approval Back

Figure 8.15

- The rows that are in **Red** are those index rows that have been deleted
- The rows that are in **Blue** are those index rows that have been added
- The rows that are in **Black** are those index rows that are untouched

At the bottom of the page there are 3 buttons: **Commit**, **Send For Approval** and **Back**. When clicked on the **Commit** button, the modifications are saved, and the “Send For Approval” will send the modification of the table for the Approval process. The back button will take the user to the previous screen.

8.2.2 New Tables

When a Table is added by the user and committed [And if the Table Add operation has the Maker checker process enabled], then the Table name and the user who added it, along with the Description are displayed in the Tabular column in the New Table Tab as shown below.



Modified Tables <u>New Tables</u>		
Table Name	Created By	Description
<input type="checkbox"/> EmployeeDetails	Ranjit	EmployeeDetails

Undo Send For Approval

Figure 8.16

The bottom of the Page consists of Undo and “Send for Approval” buttons. When clicked on the **Undo** button, the Additions are discarded and the “send for approval” will send the addition of the table for the Approval process.

The rows/values of the Column “Table Name” in the Tabular column is hyperlinked and the user would click on the row to view the detail of the changes made in the table and to do further modifications/additions.

The screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in two sub-tabs, i.e., Definition and Index/Keys.

Definition | Index/Keys

Table Name: EmployeeDetails Table Alias Name: EmployeeDetails
Description: EmployeeDetails
Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> Name		String	255	N	N	N	N	N	
<input type="checkbox"/> ID		String	255	Y	N	N	N	N	
<input type="checkbox"/> Age		Integer	255	N	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	

Add Column

Field Name *
Field Type

String

Constraints ☐ Identity ☐ Unique ☐ Mandatory
Default Value
Field Length *
Field Alias

Custom Picklist ☐
Picklist
☐ Allow Searching ☐ Non Modifiable
☐ Read Only ☐ Hidden
☐ Trim Data

Add Clear

Commit Send For Approval Back

Figure 8.17

Definition: This sub-Tab displays the various Columns of the table added. The Columns are:

• Field Name - Name of the Field	• Field Alias – Column Name displayed in Data Tab instead of the actual field name.
• Field Type – Text/Integer/ Long/Float/Date	• Field Length - Length of the Field
• Mandatory – Yes or No	• Unique – Yes or No
• Identity – Yes or No	• Filter – Yes or No
• Hidden – Yes or No	• Default Value – if the user has provided any default value for the column.

The Tabular column displays the above mentioned columns of the table with a Hype link on the rows of the column “Table Name”. Clicking on a row will display the specification of the column at the bottom and the user can further make modifications there.

- The rows that are in **Blue** are those rows that have been added
- The rows that are in **Green** are those rows that have been modified

The bottom of the table consists of 3 buttons, “Generate Index”, “Primary Key”, and “Delete”. Selecting the row(s) of the Column in the above table, and clicking the Generate Index button, will generate the index for that particular row(s) which will be displayed in the next sub-tab “Index/Keys”.

The bottom part of the page consists of Add new column option for the users to add new columns. At the bottom of the page there are 3 buttons, “Commit”, “Send for Approval” and “Back”. When clicked on the **Commit** button, the modifications are saved, and the “Send for Approval” will send the addition of the table for the Approval process. The Back button will take the user to the previous screen.

Index/Keys: This sub-Tab contains the Primary keys and the columns that have been indexed in the Table that has been added. The Bottom of the Table consists of a Delete button. Selecting a row and deleting, would delete the Index of the row.

Definition | Index/Keys

Table Name: EmployeeDetails Table Alias Name: EmployeeDetails

Description: EmployeeDetails

Portal Table ☐

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	PK_SKT1HXUULQ8A9YU_1	PrimaryKey	ID		

Commit Send For Approval Back

Figure 8.18

- The rows that are in **Red** are those Index rows that have been deleted.
- The rows that are in **Blue** are those Index rows that have been added.

At the bottom of the page, there are 3 buttons, “Commit”, “Send for approval”, and “Back”. When clicked on the Commit button, the modifications are saved, and the “send for approval” will send the modification of the table for the Approval process. The back button will take the user to the previous screen.

8.3 Rejected Items

The “**Rejected Items**” screen contains the items that have been rejected by the Checker.

The **Rejected Items** screen consists of four tabs:

- **Modified Tables.**
- **New Tables**
- **Deleted Tables**
- **Modified Data**

When an approver rejects an operation that has Maker checker process enabled, then that operation appears in this section. The rejection could be any one of the following:-

- **Modifying a Table**
- **Adding a New table**
- **Deleting a Table**
- **Modifying the data**

Whenever any of the above mentioned operation has the Maker checker process enabled, then the rejected items can be viewed and then again sent for approval. In this way, the final rejection of any Table or Data now lies with its Maker rather than the Checker/Approver.

8.3.1 Modified Tables

When a modified Table is rejected[And if the Table Modify operation has the Maker checker process enabled], then the Table name, the user who modified it, the user who rejected it and the associated comments are displayed in the Tabular column in the Modified Table Tab as shown below.

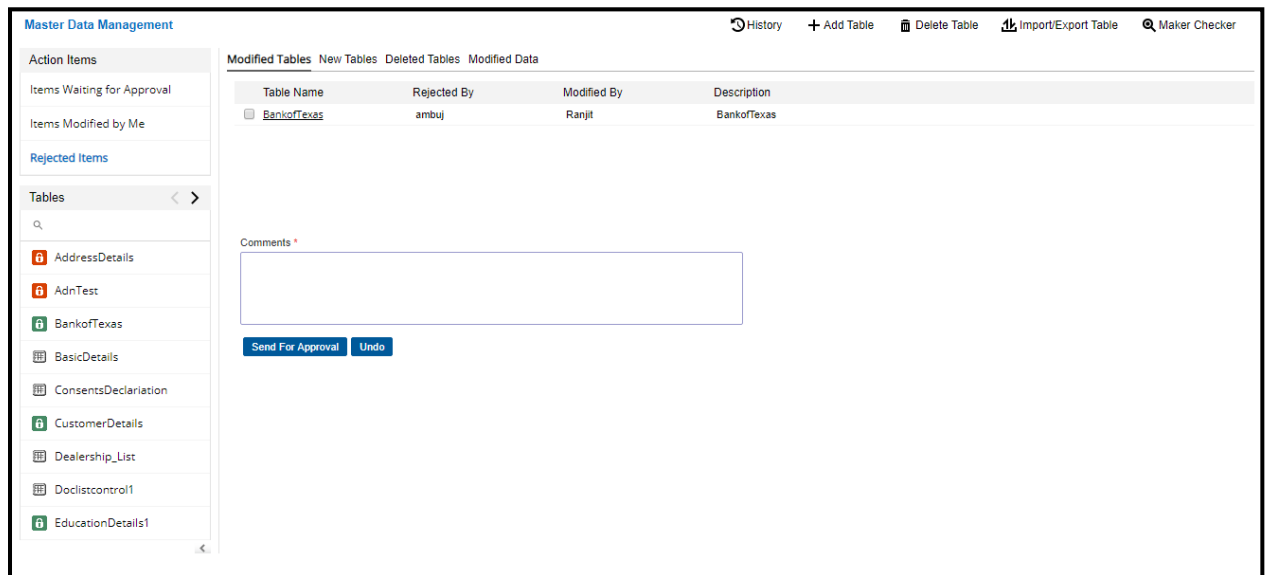


Figure 8.19

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.

- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.

Undo: - Click on this button to undo the changes made to the table and restore the table to the previous approved state.

The rows/values of the Column “**Table Name**” in the Tabular column is hyperlinked and the user can click on it to view the details of the changes made in the table.

The Screen below opens upon clicking the rows/values of the Column “**Table Name**”, which consists of the Table details in following 2 sub-Tabs:-

- **Definition**
- **Index/Keys**

Definition
Index/Keys

Table Name: BankofTexas
Table Alias Name: BankofTexas

Description: BankofTexas

Portal Table

Foreign Key
Generate Index
Primary Key

Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> CustName		String	255	N	N	N	N	N	
<input type="checkbox"/> CustID		Integer	255	Y	N	N	N	N	
<input type="checkbox"/> Address		String	255	N	N	N	N	N	
<input type="checkbox"/> DateOfBirth		Date	255	N	N	N	N	N	

Add Column

Field Name *

Field Type
String

Constraints
☐ Identity
☐ Unique
☐ Mandatory

Default Value

Field Length *
255

Field Alias

Custom Picklist
☐

Picklist

☐ Allow Searching
☐ Non Modifiable

☐ Read Only
☐ Hidden

☐ Trim Data

Add
Clear

Comments

Figure 8.20

Definition: This sub-Tab displays the various Columns of the table modified. These are:

Field Name - Name of the Field	Field Type - Text/Integer/Long/Float/Date/String/NText/ShortDate/Nvarchar	Default Value	Field Length - Length of the Field
Field Alias	Custom Picklist	Picklist	Mandatory - Yes or No
Unique - Yes or No	Identity - Yes or No	Allow Searching	Non Modifiable
Read Only	Trim Data	Hidden - Yes or No	Default Value - if the user has provided any default value for the column.

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Reject:** - Click on this button to discard the operation.
- **Back:** - Click on this button to return to the previous screen.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table. And the Bottom of the Page consists of the following:-

Comments Text Area

- **Send for Approval:** - Click on this button resends the Rejected table for Approval.
- **Reject:** - Click on this button discards the whole operation.
- **Back:** - Click on this button to return to the previous screen.

Definition | Index/Keys

Table Name: BankofTexas Table Alias Name: BankofTexas
Description: BankofTexas
Portal Table ☐

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	PK_PUHL3LMIXEAOV4S_1	PrimaryKey	CustID		

Comments

Figure 8.21

8.3.2 New Tables

When a new Table is rejected [And if the Table Add operation has the Maker checker process enabled], then the Table name, the user who rejected it, the user who added it, along with the comments are displayed in a Tabular column in the Rejected Table tab as shown below.

Table Name	Rejected By	Created By	Description
Customer Details	ambuj	Ranjit	Customer Details
School List	ambuj	Ranjit	School List
Dealership List	ambuj	Ranjit	Dealership List

Comments *

Figure 8.22

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Undo:** - Click on this button to discard the operation.

The rows/values of the Column “**Table Name**” in the Tabular column is hyperlinked and the user would click on the row to view the details of the table being added.

The Screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in following 2 sub-Tabs:-

- **Definition**
- **Index/Keys**

Definition | Index/Keys

Table Name: DealershipList Table Alias Name: DealershipList
Description: Dealership List
Portal Table ☐

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> Dealer Name		String	255	N	N	N	N	N	
<input type="checkbox"/> Dealer ID		String	255	Y	N	N	N	N	

Add Column

Field Name *
Field Type
Constraints ☐ Identity ☐ Unique ☐ Mandatory
Default Value
Field Length *
Field Alias

Custom Picklist ☐
Picklist
☐ Allow Searching ☐ Non Modifiable
☐ Read Only ☐ Hidden
☐ Trim Data

Add Clear

Comments

Figure 8.23

Definition: This sub-Tab displays the various Columns of the table modified. These are:

- Field Name - Name of the Field
- Field Type - Text/Integer/ Long/Float/Date/String/NText/ShortDate/Nvarchar
- Default Value
- Field Length - Length of the Field
- Field Alias
- Custom Picklist
- Picklist
- Mandatory - Yes or No
- Unique - Yes or No
- Identity - Yes or No
- Allow Searching
- Non Modifiable
- Read Only
- Trim Data
- Hidden - Yes or No
- Default Value - if the user has provided any default value for the column.

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Reject:** - Click on this button to discard the operation.
- **Back:** - Click on this button to return to the previous screen.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table. And the Bottom of the Page consists of the following:-

- Comments Text Area
- **Send for Approval:** - Click on this button resends the Rejected table for Approval.
- **Reject:** - Click on this button discards the whole operation.
- **Back:** - Click on this button to return to the previous screen.

Definition | Index/Keys

Table Name: DealershipList Table Alias Name: DealershipList

Description: Dealership List

Portal Table ☐

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	PK_Y64T9ZJQ1XTPKQR_1	PrimaryKey	Dealer ID		

Comments

Figure 8.24

8.3.3 Deleted Tables

When a Deleted Table is rejected by the Approver/Checker[And if the Table Delete operation has the Maker checker process enabled], then the Table name, the user who deleted it and the user who rejected it, along with the comments are displayed in the Tabular column in the Deleted Tables Tab as shown below.

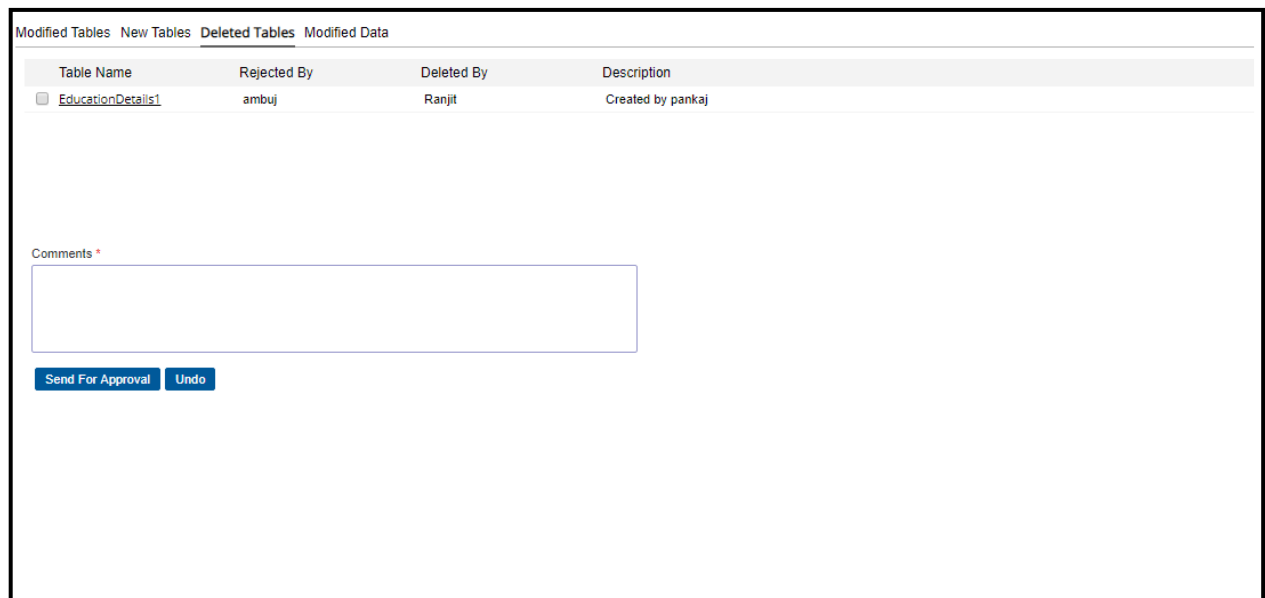


Table Name	Rejected By	Deleted By	Description
<input type="checkbox"/> EducationDetails1	ambuj	Ranjit	Created by pankaj

Comments *

Figure 8.25

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Undo:** - Click on this button to discard the operation.

The rows/values of the Column “**Table Name**” in the Tabular column is hyperlinked and the user would click on the row to view the details of the table being added.

The Screen below opens upon clicking the rows/values of the Column “Table Name”, which consists of the Table details in following 2 sub-Tabs:-

- **Definition**
- **Index/Keys**

Definition
Index/Keys

Table Name: EducationDetails1 **Table Alias Name:** EducationDetails1
Description: Created by pankaj
Portal Table ☒

Foreign Key Generate Index Primary Key

<input type="checkbox"/> Field Name	Field Alias	Field Type	Field Length	Mandatory	Unique	Identity	Filter	Hidden	Default
<input type="checkbox"/> <u>Qualification</u>		String	255	N	N	N	N	N	
<input type="checkbox"/> <u>YearofPassing</u>		Date	255	N	N	N	N	N	
<input type="checkbox"/> <u>JoiningDate</u>		Date	255	N	N	N	N	N	
<input type="checkbox"/> <u>University</u>		String	255	N	N	N	N	N	

Add Column

Field Name *
Field Type
Constraints ☐ Identity ☐ Unique ☐ Mandatory
Default Value
Field Length *
Field Alias

Custom Picklist ☐
Picklist
☐ Allow Searching ☐ Non Modifiable
☐ Read Only ☐ Hidden
☐ Trim Data

Add Clear

Comments

Figure 8.26

Definition: This sub-Tab displays the various Columns of the table modified. These are:

- Field Name - Name of the Field
- Field Type - Text/Integer/ Long/Float/Date/String/NText/ShortDate/Nvarchar
- Default Value
- Field Length - Length of the Field
- Field Alias
- Custom Picklist
- Picklist
- Mandatory - Yes or No
- Unique - Yes or No
- Identity - Yes or No
- Allow Searching
- Non Modifiable
- Read Only
- Trim Data
- Hidden - Yes or No
- Default Value - if the user has provided any default value for the column.

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Reject:** - Click on this button to discard the operation.
- **Back:** - Click on this button to return to the previous screen.

Index/Keys: This sub-tab contains the Primary keys and the columns that have been indexed in the Table. And the Bottom of the Page consists of the following:-

Comments Text Area

- **Send for Approval:** - Click on this button resends the Rejected table for Approval.
- **Reject:** - Click on this button discards the whole operation.
- **Back:** - Click on this button to return to the previous screen.

Definition | Index/Keys

Table Name: EducationDetails1 Table Alias Name: EducationDetails1

Description: Created by pankaj

Portal Table ☒

<input type="checkbox"/>	Index Name	Field Type	Index Field	Table Name	Column Name
<input type="checkbox"/>	FK_YQATLDGWYD93VJC_2	ForeignKey	EducationDetailID	parenttable3	TransactionID
<input type="checkbox"/>	PK_YBQJ9ZILGKVUD4H_1	PrimaryKey	EducationDetailID		

Comments

Figure 8.27

8.3.4 Modified Data

When the Modified Data of a Table is rejected [And if the Data operation has the Maker checker process enabled], then the Table name, the user who rejected it and the Rows as Hyperlinks that has been modified, are displayed in the Tabular column in the Modified Data Tab as shown below.

Table Name	Rejected By	Total Rows Updated
<input type="checkbox"/> CustomerDetails	ambuj	1

Comments *

Figure 8.28

The bottom of the screen consists of the following:-

- **Comments:** - Enter your comments in this text area before resending the operation for approval or discarding it.
- **Send for Approval:** - Click on this button to resend the operation to the approval for approval.
- **Undo:** - Click on this button to discard the operation.

The rows/values of the Column “**Total Rows updated**” in the Tabular column are hyperlinked and the user can click on the row to view the details of the row being modified.

The screen below opens upon clicking the rows/values of the Column “**Total Rows updated**”, which consists of the details of the Rows that have been modified as shown below.

CustomerDocumentID	Name	Department	TotalDocuments	PAN
<input type="checkbox"/> 359	Teja Kumar	Development	10	BOSPK3241D

Figure 8.29

Clicking on the Back button takes the user to the previous screen.

9

History

This chapter consists of:

- Generate Table History

9.1 Generate Table History

The History section allows the users to Generate Table history, to find out the operations performed on tables, by users, during a certain point of time. It basically helps to track various operations performed on tables during the due course of time.

The Table History can be generated by selecting the following five Parameters.

The Parameters are:

- Table Name - Name of the Table(s)
- From Date:
- To Date:
- Actions:
 - Table Created
 - Table Modified
 - Table Deleted
 - Table Creation Approved
 - Table Creation Rejected
 - Table Modification Approved
 - Table Modification Rejected
 - Table Deletion Approved
 - Table Deletion Rejected
 - Rows Updated
 - DataOperation
- Action By – User Name(s)

Click on **History** link to open Generate Table History page.

Master Data Management

History + Add Table Delete Table Import/Export Table Maker Checker

Action Items

- Items Waiting for Approval
- Items Modified by Me
- Rejected Items

Tables

- AddressDetails
- AdnTest
- BankofTexas
- BasicDetails
- ConsentsDeclaration
- CustomerDetails
- Dealership_List
- Doclistcontrol1
- EducationDetails1

Generate Table History

Table: All Tables From: To:

Action: All Actions Action By:

Save Generate Clear

Figure 9.1

After specifying the above mentioned parameters, click on **Generate** to generate the table history.

Generate Table History

Table: BankofTexas (BankofT From: 01/Jan/2020 16:18 To: 30/Jan/2020 16:18:34

Action: All Actions Action By:

Save Generate Clear

History

Table	Action	Date	Comments
BankofTexas	Table created' by 'Ranjit'	28/Jan/2020 16:15:44	
	Table rights updated' to 'Inherited' by 'Ranjit'	28/Jan/2020 16:15:44	
	Table modified' by 'Ranjit'	28/Jan/2020 16:21:24	
	New row is inserted by 'Ranjit'	28/Jan/2020 16:41:37	
	View Data		
	Table modified' by 'Ranjit'	28/Jan/2020 16:42:32	
	New row is inserted by 'Ranjit'	28/Jan/2020 16:43:01	
	View Data		
	Table modified' by 'Ranjit'	28/Jan/2020 16:43:55	
	Row has been deleted by 'Ranjit'	28/Jan/2020 17:27:26	
	View Data		
	Row has been deleted by 'Ranjit'		

Figure 9.2

Click on **Save** to save the table history to the local machine.

The screenshot shows the 'Generate Table History' interface. At the top, there are filters for 'Table' (BankofTexas (BankofT)), 'From' (01/Jan/2020 16:18), 'To' (30/Jan/2020 16:18:34), 'Action' (All Actions), and 'Action By'. Below these are 'Save', 'Generate', and 'Clear' buttons. The main section is a table titled 'History' with columns: Table, Action, Date, and Comments. The table lists several actions performed on 'BankofTexas', including table creation, rights updates, modifications, and row insertions/deletions, all by 'Ranjit' on 28/Jan/2020. Some rows have a 'View Data' link.

Table	Action	Date	Comments
BankofTexas	Table created' by 'Ranjit'	28/Jan/2020 16:15:44	
	Table rights updated' to 'Inherited' by 'Ranjit'	28/Jan/2020 16:15:44	
	Table modified' by 'Ranjit'	28/Jan/2020 16:21:24	
	New row is inserted by 'Ranjit'	28/Jan/2020 16:41:37	
	View Data		
	Table modified' by 'Ranjit'	28/Jan/2020 16:42:32	
	New row is inserted by 'Ranjit'	28/Jan/2020 16:43:01	
	View Data		
	Table modified' by 'Ranjit'	28/Jan/2020 16:43:55	
	Row has been deleted by 'Ranjit'	28/Jan/2020 17:27:26	
	View Data		
	Row has been deleted by 'Ranjit'		

Figure 9.3

Click on **View Data** link given in Action column to view the data history.

The screenshot shows the 'Generate Table History' interface with a 'Data History' modal open. The modal displays a table with columns: Row Added, CustName, CustID, Address, DateOfBirth, EmployeeBand, Account_Security_Level, IntroducesBy, CustSalary, and Comments. The table shows a single row added on 08/Jan/1990 16:40:25 with CustName 'abc', CustID '23', and Address 'abv'. The background interface is the same as in Figure 9.3.

Row Added	CustName	CustID	Address	DateOfBirth	EmployeeBand	Account_Security_Level	IntroducesBy	CustSalary	Comments
	abc	23	abv	08/Jan/1990 16:40:25					

Figure 9.4

10

Locks on Approved Tables

This chapter consists of:

- Locks on Approved Tables

Locks on Approved Tables

If Maker Checker is enabled for some operations and then some locks will display in approve tables list, if these operations has been performed on any table and the table is not yet approved.

NOTE:

Symbol is used to represent a normal table in which all operations are allowed to perform.

Symbol	Description
A green square icon with a white padlock symbol.	This image will display if the data of this table has been modified and not yet approved. In this case, the user will not be able to perform any operations on the table definition.
A red square icon with a white padlock symbol.	This image will display if the Table Definition of this table has been modified and not yet approved. In this, case user will not be able to perform any operation on table Definition and table data.

11

List of Abbreviations

This chapter consists of:

- List of Abbreviations

List of Abbreviations

CRUD: Create Read Update Delete

CSV: Comma Separated Values

DDL: Data Definition Language

GUI: Graphical User Interface

iBPS: Intelligent Business Process Suite

MDM: Master Data Management

PC: Personal Computer

XML: Extensible Markup Language