

Pelican User Guide

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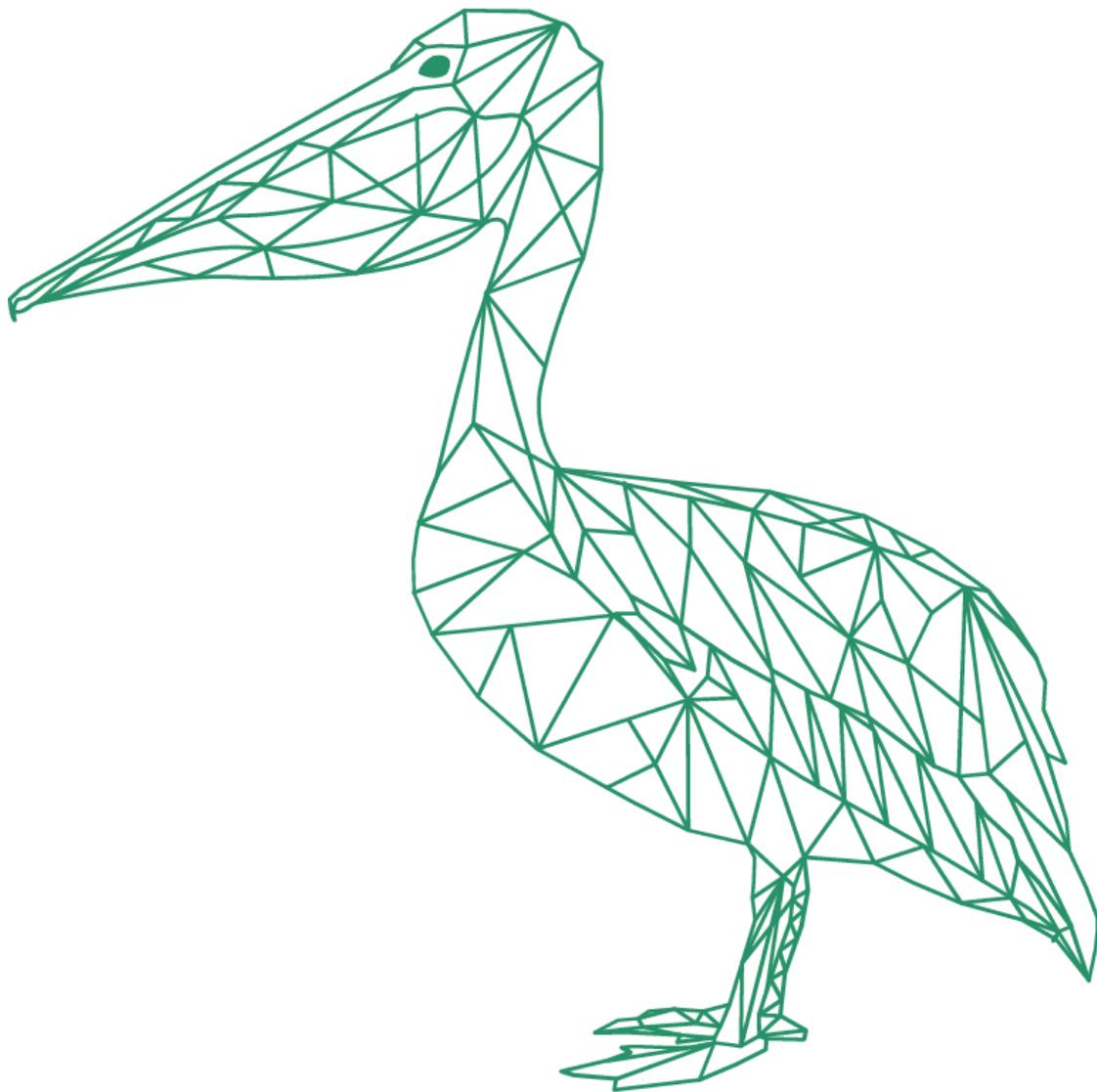


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1. Preface

The *Pelican user guide* is written for developers and software engineers who are responsible for comparing and validating data across various data stores. The *Pelican user guide* assumes that you have an understanding of your operating systems, relational database concepts, database engines, flat files, and how the mainframe system works in your environment. This guide also assumes that you are familiar with the interface requirements for your supporting applications.

2. Pelican Overview

Pelican is an innovative enterprise application that ensures business that the data migrated from reference to destination data store accurately and reliably by performing validation over migrated data. Pelican helps the user to compare and validate data across different data stores quickly.

Pelican helps users to validate large data sets without any data transfer from source to target. Pelican allows the user to copy a large dataset (historical and real time data) to a destination data store for validation. It uses an innovative approach to compare the data without moving it across data stores. It also shows the records in data which are having differences.

The user can automate the comparison using schedulers and API. Pelican uses the Phonetic Matching and Approximate Matching algorithms to search the best possible combination of tables from the target datastore. It also facilitates configuring and execute various schedulers as per the business requirement. These Schedulers are created to compare and validate table dataset periodically.

You can configure an email notification for schedulers that sends an email automatically to various users when the scheduler executes. Pelican provides lineage support, which enables the user to track the movement of data across various nodes. This information is retrieved from the job history server of various data stores configured in the Pelican.

Once the validation is done, the application generates statistics with the following information:

- Count of total rows at source
- Count of total rows at destination
- Count of mismatch rows at destination
- Count of extra rows at destination

- Count of missing rows at destination
- Total mismatch row count
- Validation Status
- Sample of mismatch data

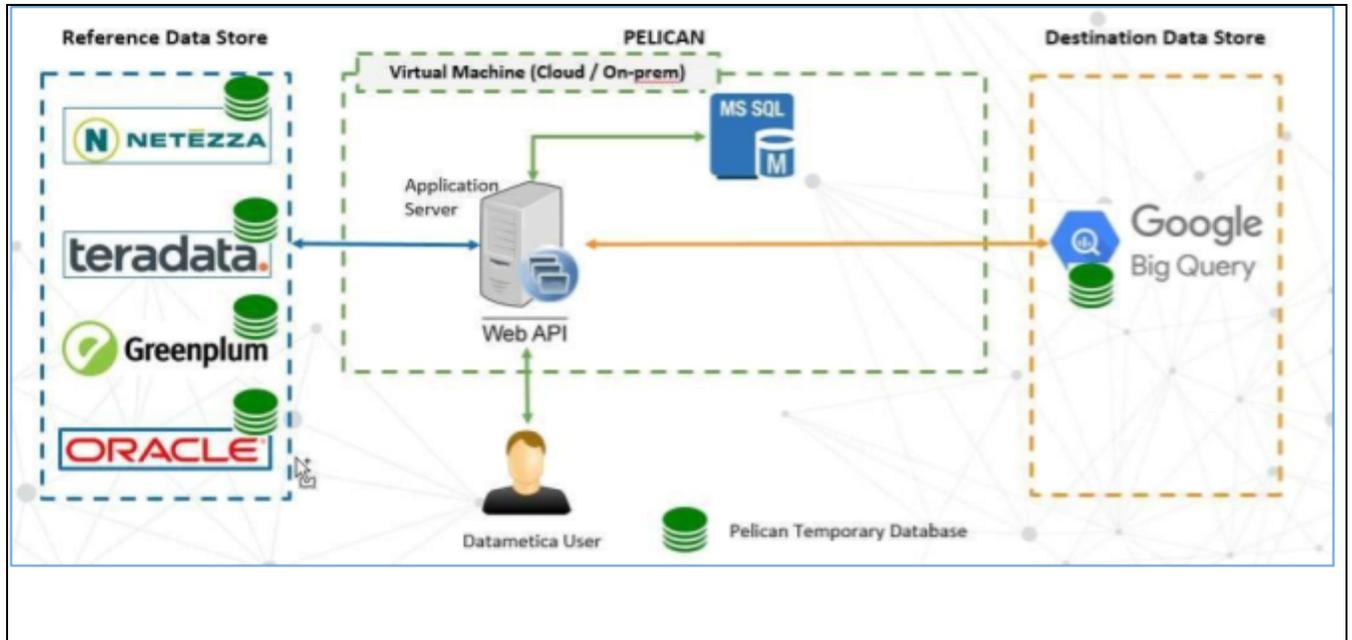
3. Data Store Support

Pelican supports comparison between following data stores using an innovative approach:

Sr. No	Source Data store	Destination Data store
1	Teradata	Big Query
2	Netezza	Big Query
3	Hive	Big Query
4	Oracle	Big Query
5	BigQuery	Big Query
6	DB2	Big Query
7	Oracle	Hive
8	Teradata	Hive
9	Netezza	Hive
9	Hive	Hive
10	Big Query	Hive
11	Oracle	Oracle

4. Architecture

Here is the complete architecture on how Pelican works.



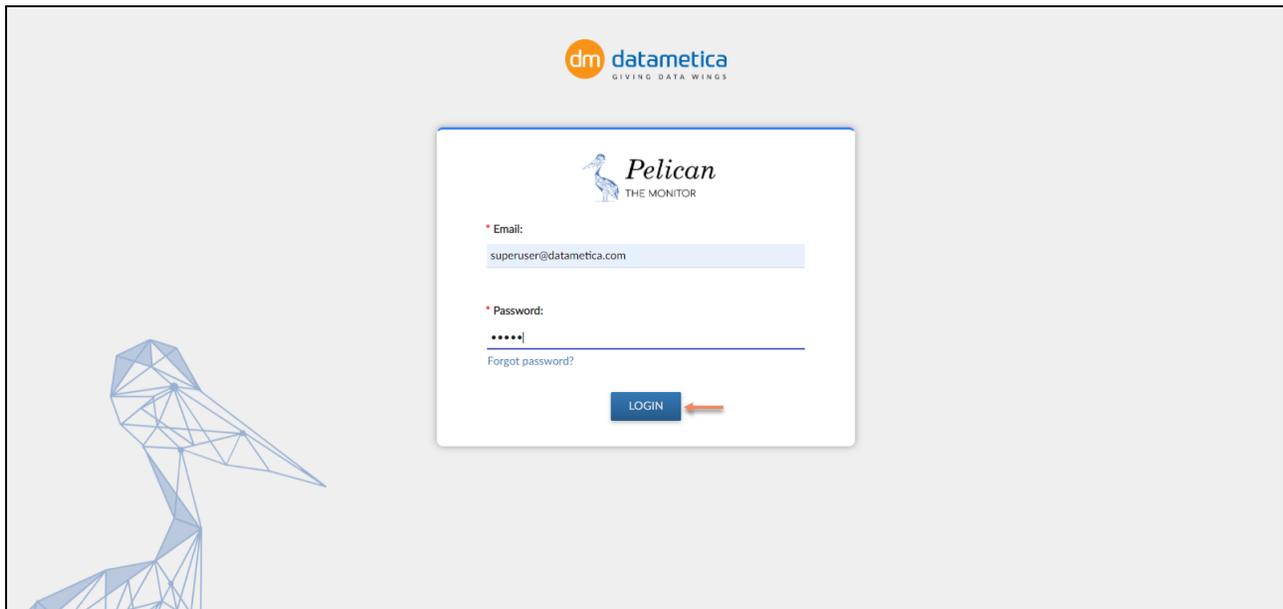
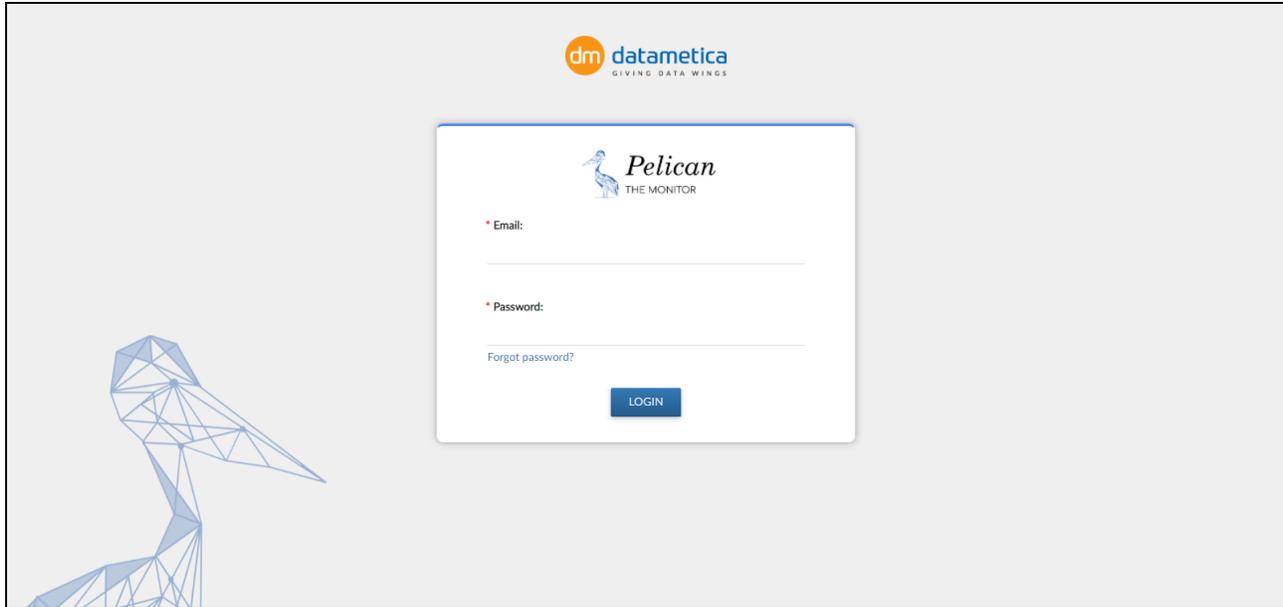
5. User Management

In User Management the whole administration of the application is accessed, providing secured authorization to the users. Each user is assigned a unique identity to authenticate the application.

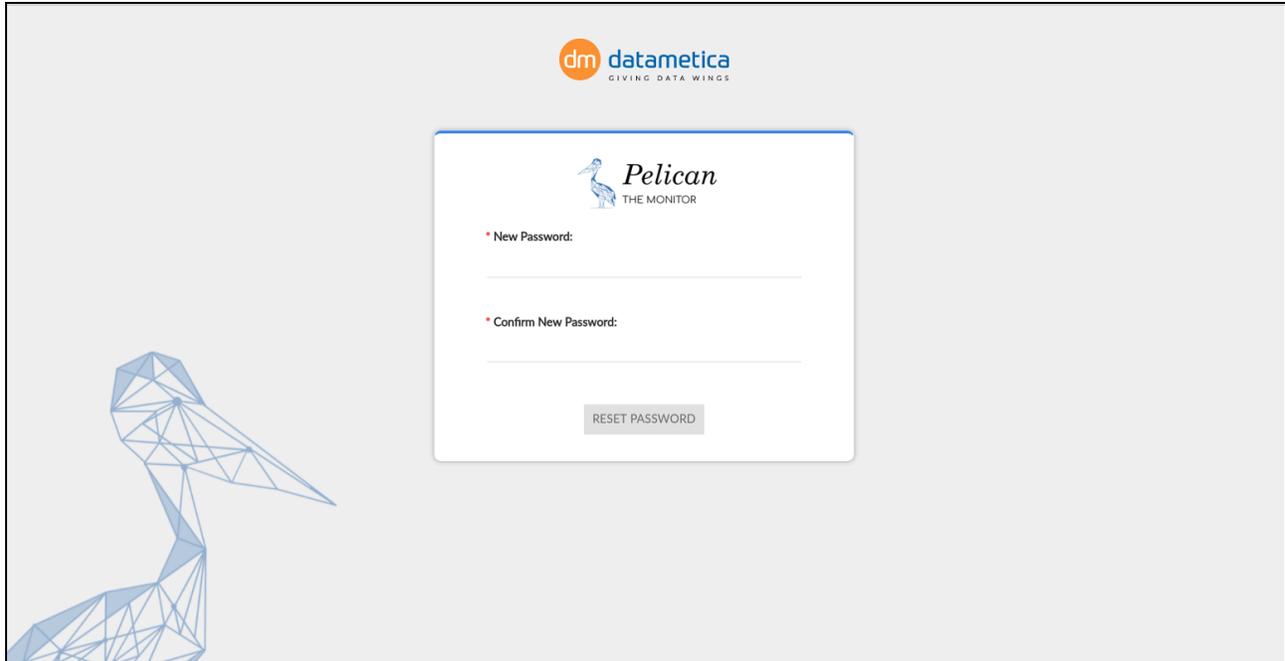
5.1. Login

Pelican needs two details on the login page

- User's email id
- Password



Once the user logged in for the first time, Pelican will ask them to reset the default password.



After completing the steps the user will navigate to the Validation Result page.

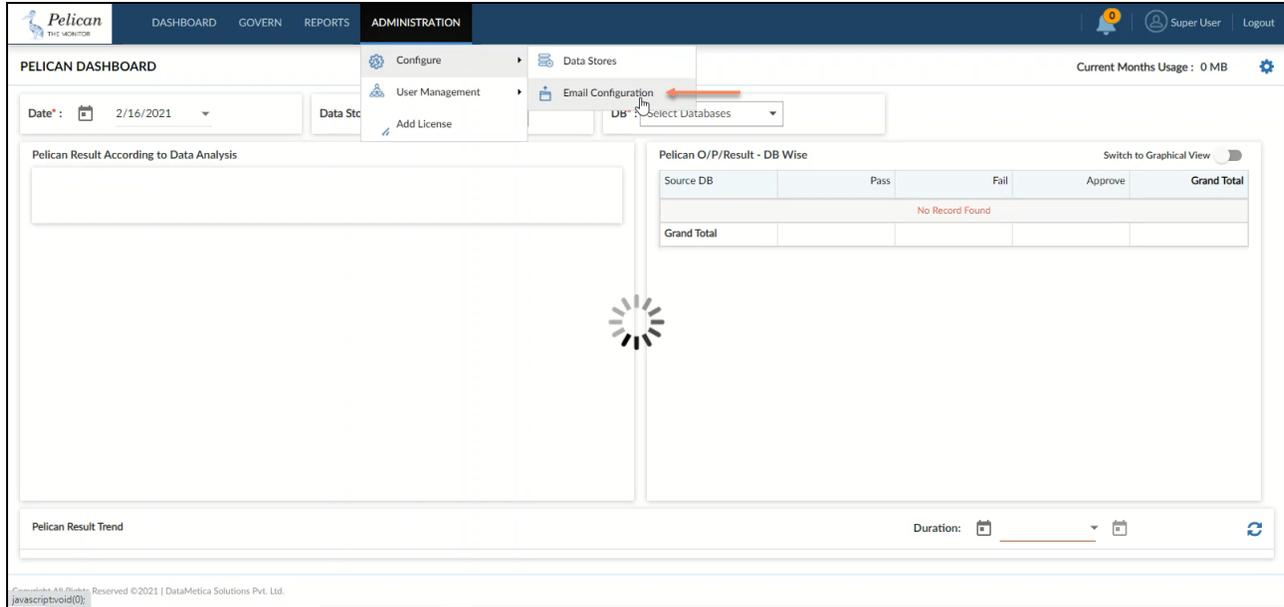
5.2. Configure SMTP server

SMTP server configuration functionality allows the administrator to configure SMTP server and it will be used for sending passwords to newly added users.

Configure SMTP server and Sender Email Address ;

To configure the SMTP Server and senders email address:

1. Go to the **Administration** → **Configure** → **Email Configuration**.

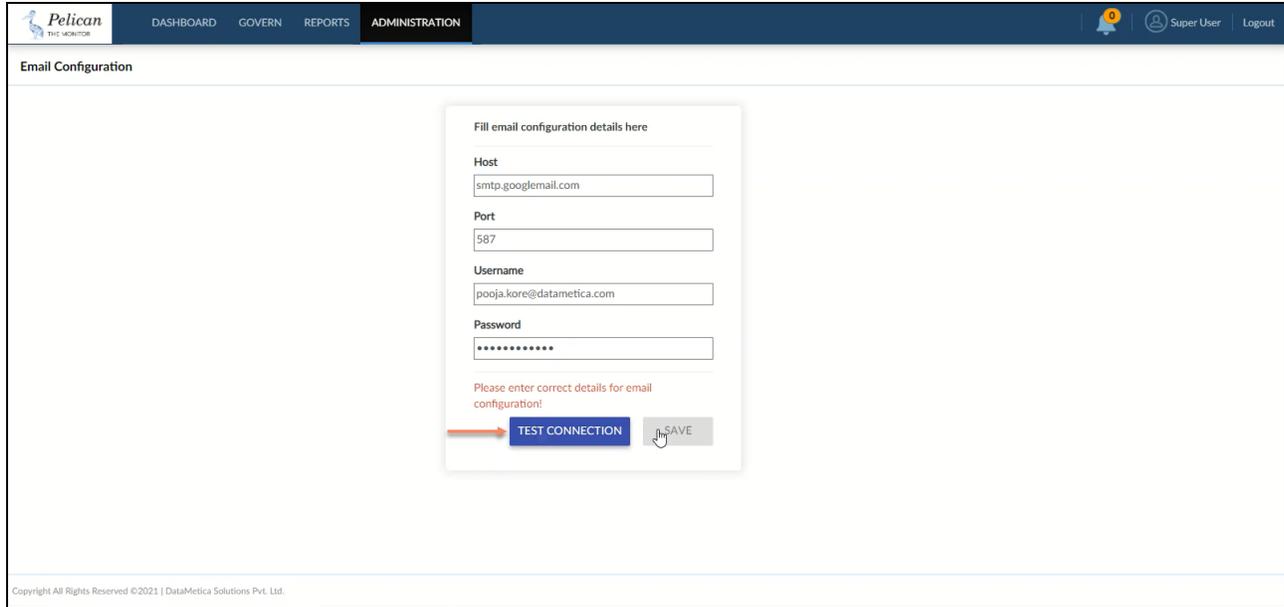


The screenshot shows the Pelican Dashboard Administration interface. The 'ADMINISTRATION' menu is open, and 'Email Configuration' is selected. The 'Email Configuration' window is open, showing fields for Host Name, Port Name, User Name, and Password. The 'Pelican O/P/Result - DB Wise' table is empty, showing 'No Record Found'.

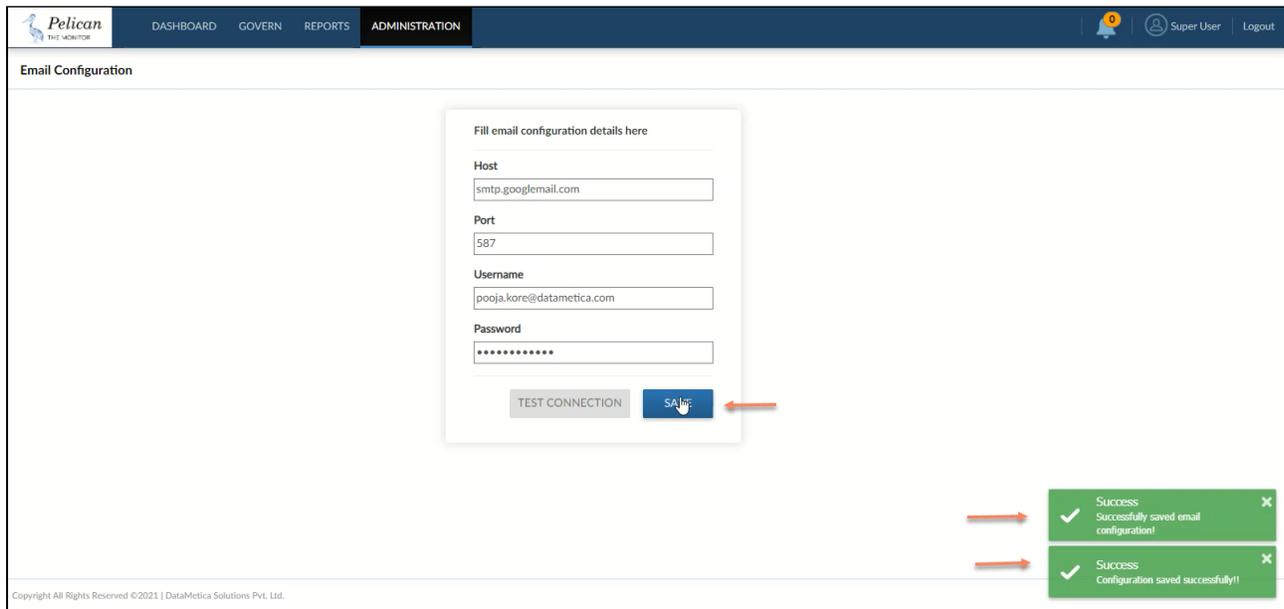
Source DB	Pass	Fail	Approve	Grand Total
No Record Found				
Grand Total				

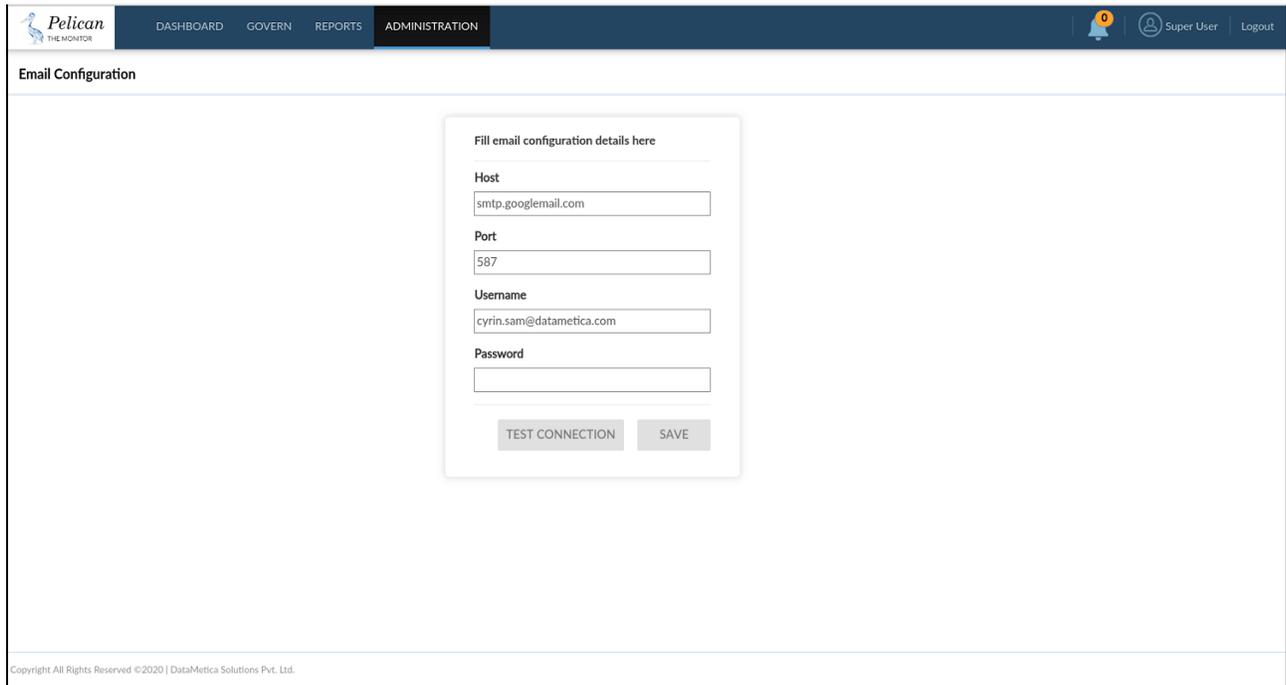
2. Fill the below details in the Email Configuration window.

- Enter **Host Name** (http://smtp.googlemail.com/)
- Enter **Port Name** (547)
- Enter **User Name** (firstname@datametica.com)
- Enter **Password** in the provided field. ●●●●●●●●



3. Click on Test Connection
4. Click the **Save** button to save the configuration.





Pelican THE MONITOR | DASHBOARD GOVERN REPORTS **ADMINISTRATION** |  0 |  Super User | Logout

Email Configuration

Fill email configuration details here

Host

Port

Username

Password

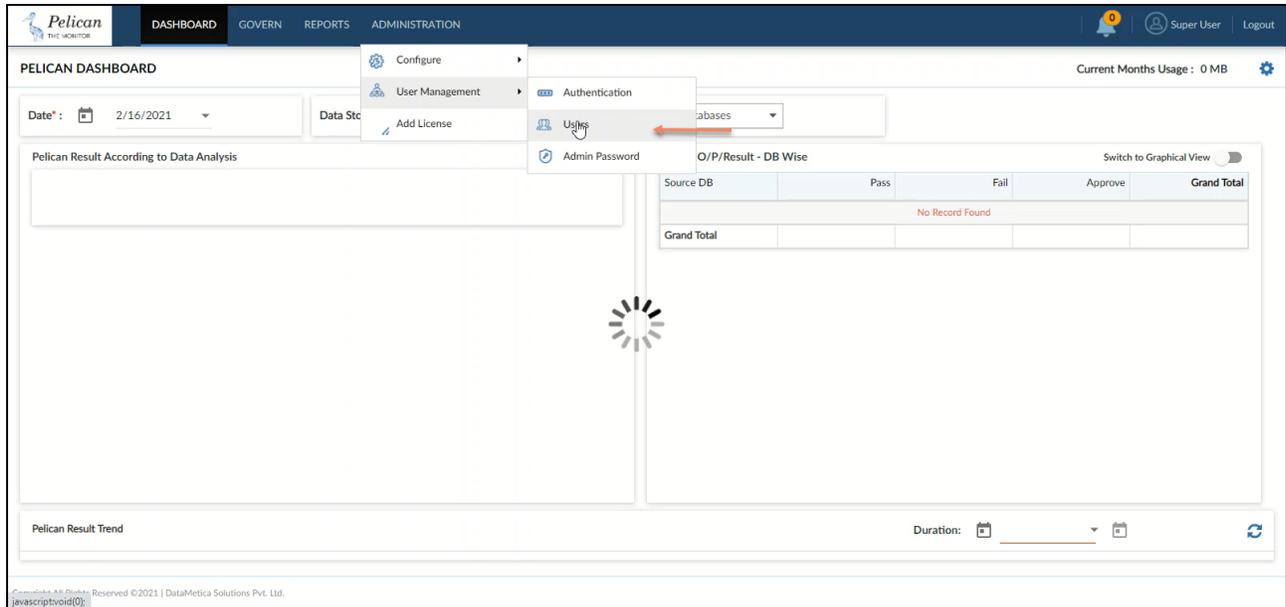
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5.3. User creation

The Users tab allows you to create a new user in the role of Validator or Admin. You can edit or delete an existing user as well. This option will be available if LDAP configuration is not set up.

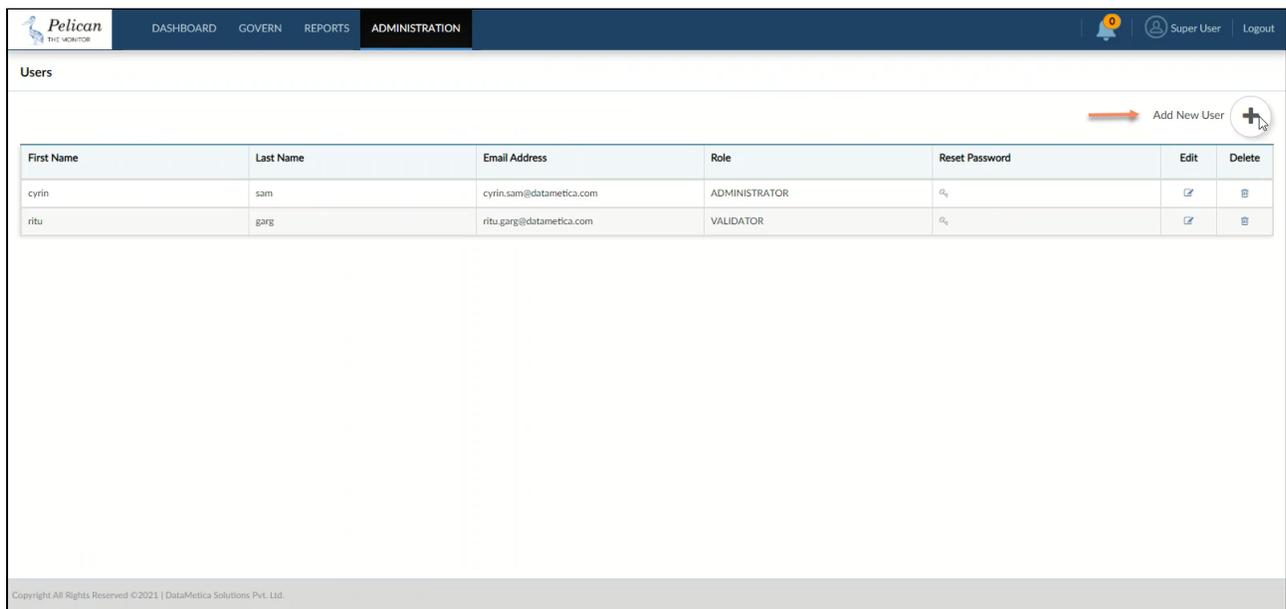
Steps to add new user:

1. Go to **Administration --> User Management → Users**



The screenshot shows the 'ADMINISTRATION' menu in the Pelican Dashboard. The 'Users' option is highlighted with a red arrow. Other options include 'Authentication', 'Admin Password', and 'O/P/Result - DB Wise'. The 'O/P/Result - DB Wise' section contains a table with columns: Source DB, Pass, Fail, Approve, and Grand Total. The table currently displays 'No Record Found'.

2. Click Add New User



The screenshot shows the 'Users' management page. An 'Add New User' button with a plus icon is highlighted with a red arrow. Below the button is a table listing existing users.

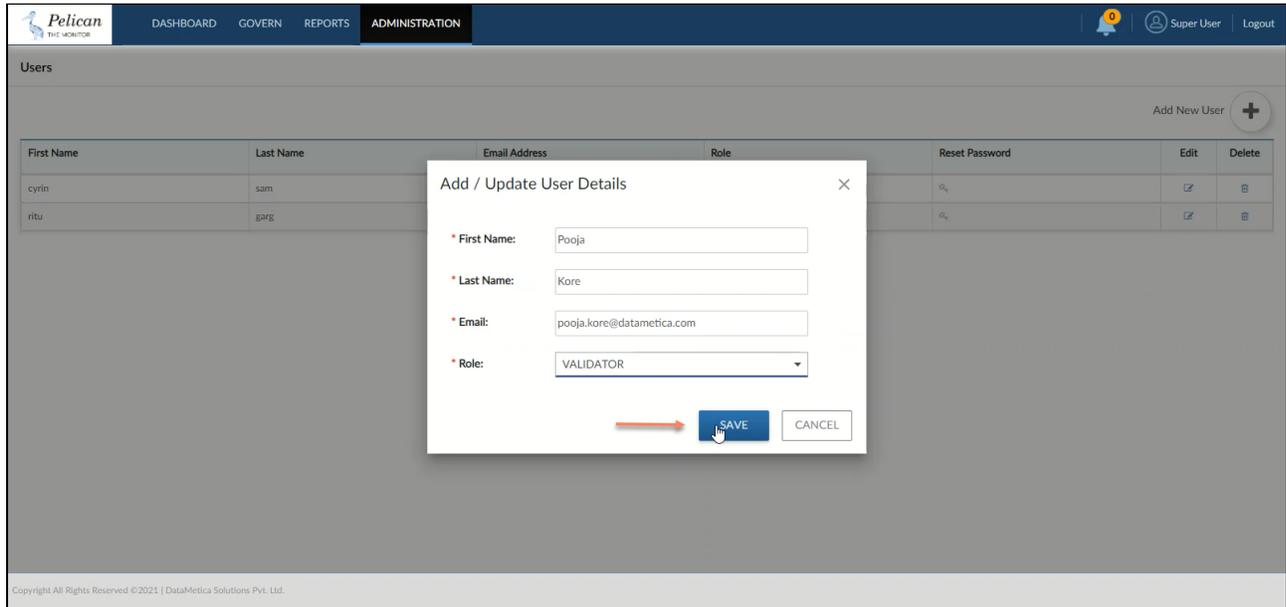
First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
cyrin	sam	cyrin.sam@datametica.com	ADMINISTRATOR			
ritu	garg	ritu.garg@datametica.com	VALIDATOR			

3. In Add / Update User Details Form, enter First Name, Last Name, Email, and select Role from the drop-down list.

Roles -

1. Super user

2. Validator

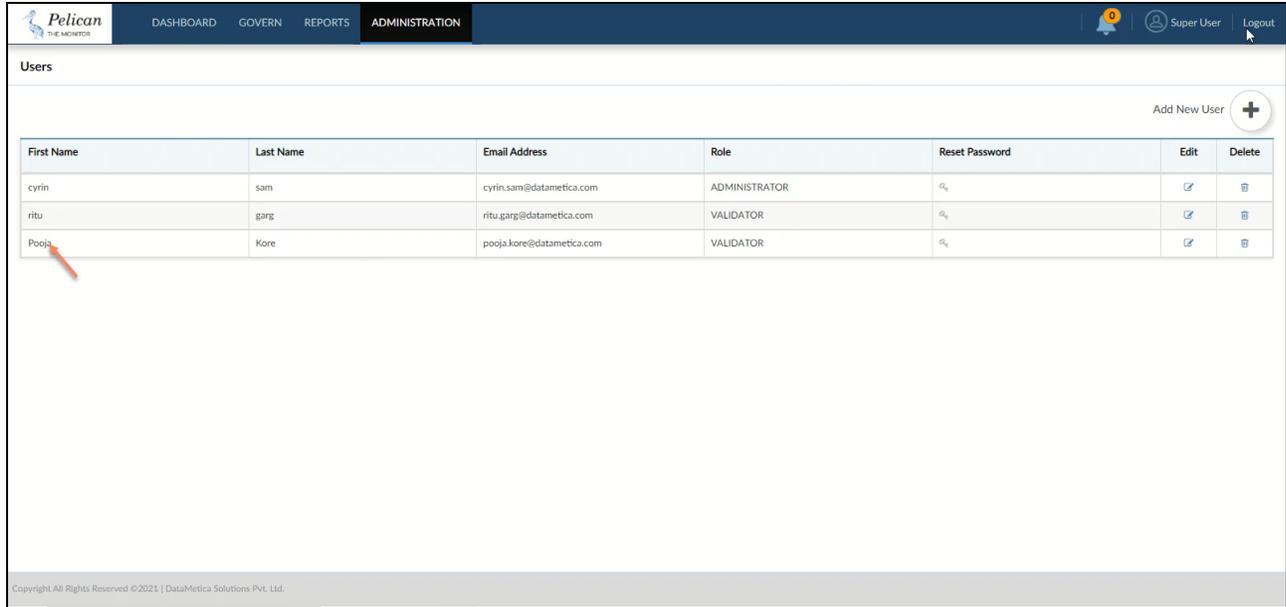


Note:

Admin: Users having the role as **admin** have the same rights as Super user. They can create new users having roles as Admin or Validator. They can create data stores for validation and configure email for sending mails.

Validator: Users having the role as **validator** do not have access to create new datastore and can't create new users, but they can create mappings, run schedulers, and view reports.

4. Click **SAVE**.

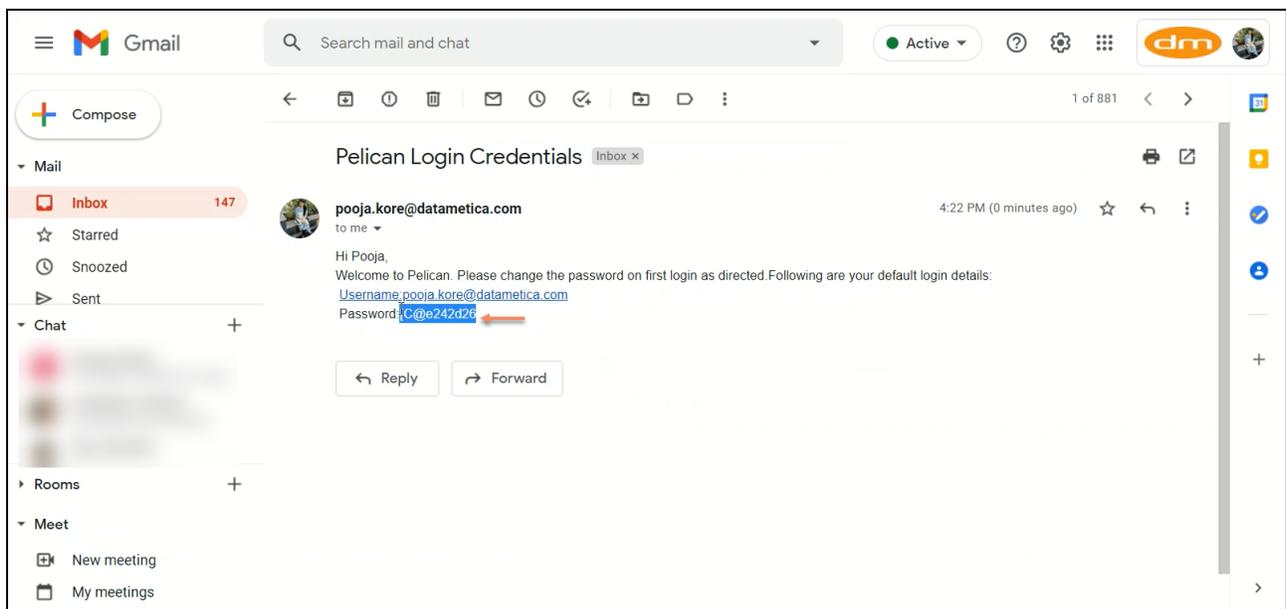


The screenshot shows the 'Users' management interface in the Pelican system. The navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The 'Users' section has an 'Add New User' button. A table lists existing users with columns for First Name, Last Name, Email Address, Role, Reset Password, Edit, and Delete.

First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
cyrin	sam	cyrin.sam@datametica.com	ADMINISTRATOR			
ritu	garg	ritu.garg@datametica.com	VALIDATOR			
Pooja	Kore	pooja.kore@datametica.com	VALIDATOR			

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A system generated Pelical Login Credentials email is generated and sent to the first-time login user which includes username and password. The user should login with those credentials and create a new password.



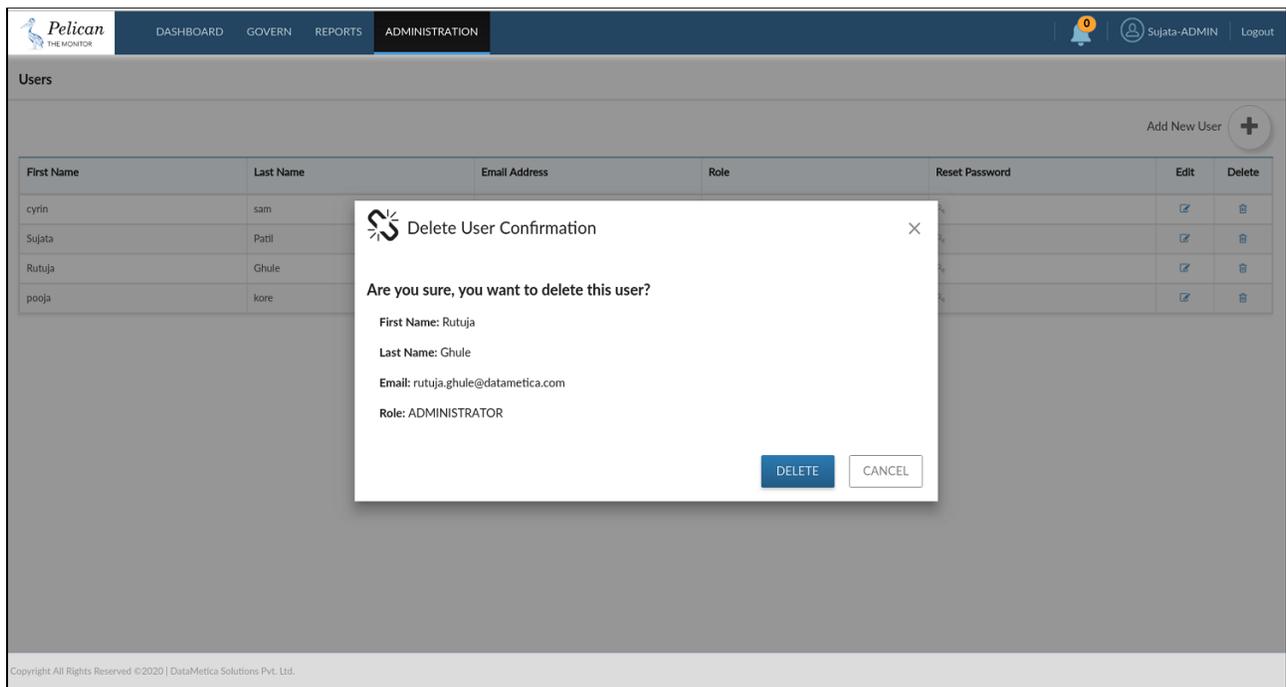
The screenshot shows a Gmail inbox with an email titled 'Pelican Login Credentials' from 'pooja.kore@datametica.com'. The email content is as follows:

Hi Pooja,
 Welcome to Pelican. Please change the password on first login as directed. Following are your default login details:
 Username: pooja.kore@datametica.com
 Password: C@e242d26

The email interface includes a search bar, navigation icons, and a sidebar with folders like 'Compose', 'Inbox', 'Starred', 'Snoozed', 'Sent', 'Chat', 'Rooms', and 'Meet'.

5.4. Modify existing user

You can edit the existing user details by clicking the edit icon on the *Manage Users* screen. So make the necessary changes and click **SAVE** in the **Add / Update User Details** form. You can delete the user details by clicking the delete icon on the same page of *Manage Users*. The system displays a deletion confirmation dialog box, hence, click the **DELETE** button as shown in the image.



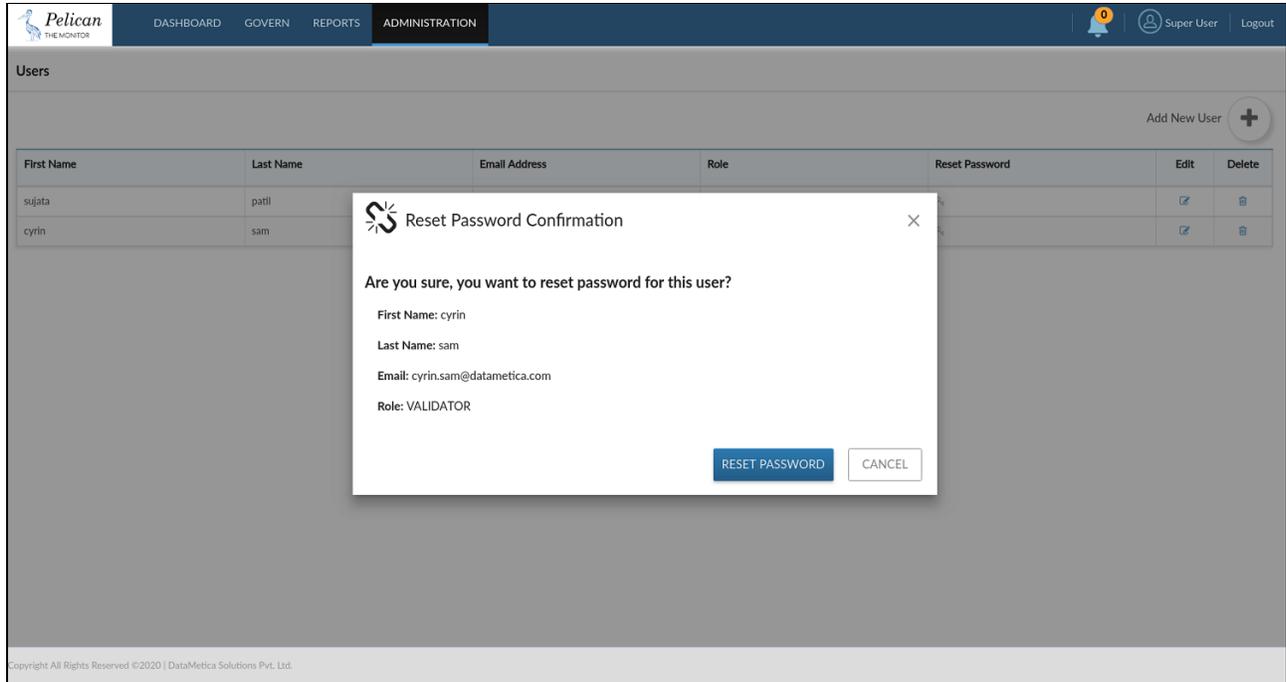
The screenshot shows the 'Users' management interface. A table lists users with columns for First Name, Last Name, Email Address, Role, Reset Password, Edit, and Delete. A modal dialog box titled 'Delete User Confirmation' is displayed over the table, asking for confirmation to delete a user. The dialog provides the following details:

- Are you sure, you want to delete this user?
- First Name: Rutuja
- Last Name: Ghule
- Email: rutuja.ghule@datametica.com
- Role: ADMINISTRATOR

The dialog includes 'DELETE' and 'CANCEL' buttons.

Confirmation message will appear when the admin selects an action.

Reset Password-



The screenshot shows the 'Administration' section of the Datametica interface. A 'Users' table is visible with columns for First Name, Last Name, Email Address, Role, Reset Password, Edit, and Delete. A modal dialog box titled 'Reset Password Confirmation' is open, asking for confirmation to reset the password for a user. The dialog displays the user's details: First Name: cyrin, Last Name: sam, Email: cyrin.sam@datametica.com, and Role: VALIDATOR. There are 'RESET PASSWORD' and 'CANCEL' buttons at the bottom of the dialog.

First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
sujata	patil					
cyrin	sam					

Reset Password Confirmation

Are you sure, you want to reset password for this user?

First Name: cyrin
Last Name: sam
Email: cyrin.sam@datametica.com
Role: VALIDATOR

RESET PASSWORD CANCEL

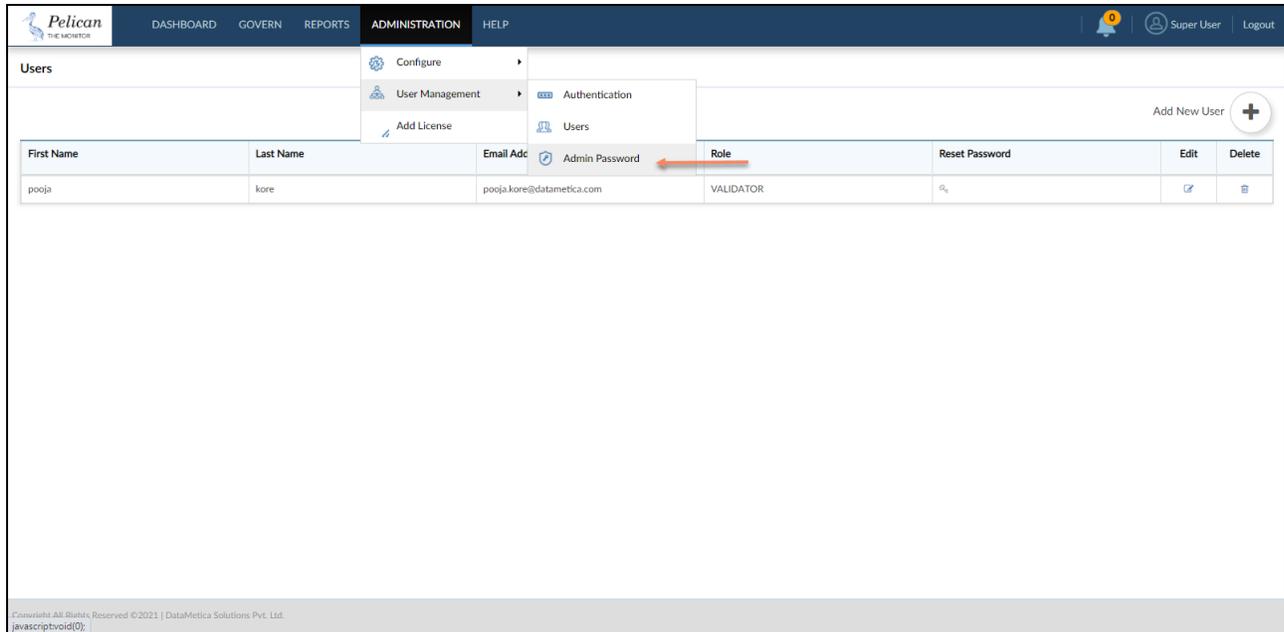
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5.5. Admin Password

In the Admin Password of User Management, the administrator can change the passwords from original to new password.

Steps

1. Go to **Administration > User Management > Admin Password**.



Users

Configure

User Management

Add License

Authentication

Users

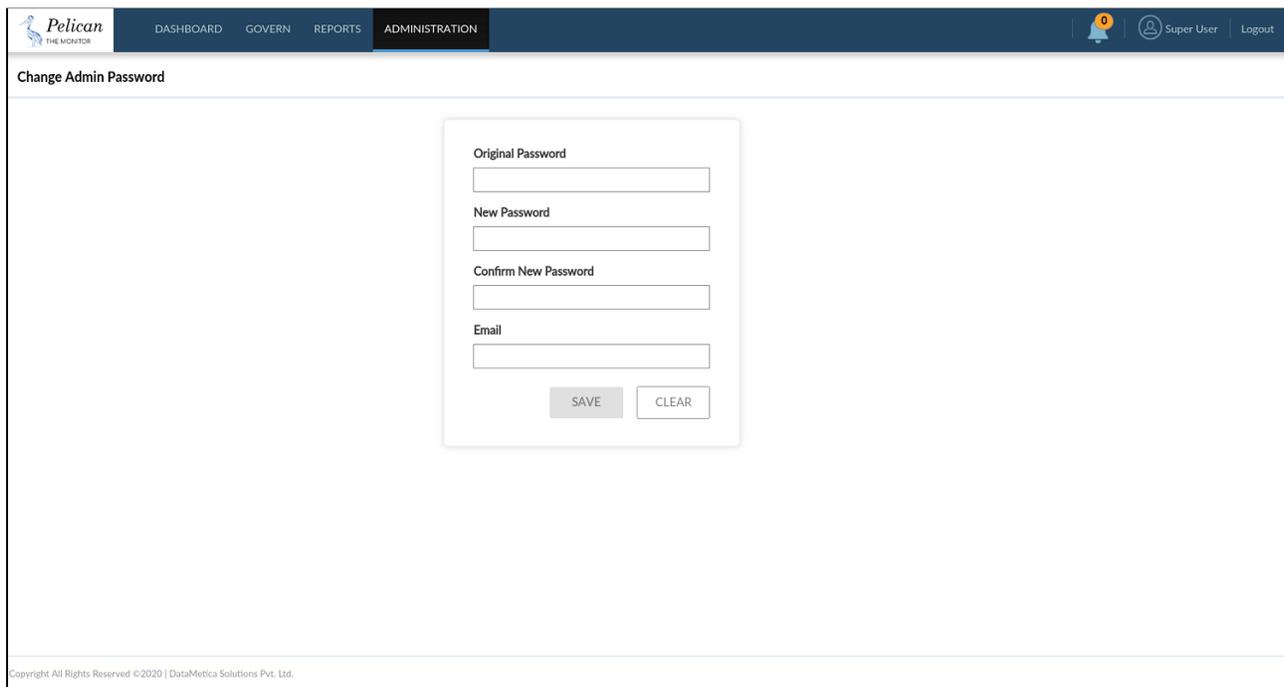
Admin Password

Add New User +

First Name	Last Name	Email Adc	Admin Password	Role	Reset Password	Edit	Delete
pooja	kore	pooja.kore@datametica.com		VALIDATOR			

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2. Enter Original Password, New Password, Confirm New Password, Email.
3. Click **SAVE**.



Change Admin Password

Original Password

New Password

Confirm New Password

Email

SAVE CLEAR

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5.6. LDAP User Management

LDAP user authentication is the process of validating a username and password combination with a directory server. Only the superuser has the right to create LDAP users. LDAP users can't create any new users. Only users with Admin access can create new LDAP users.

In User Management you are:

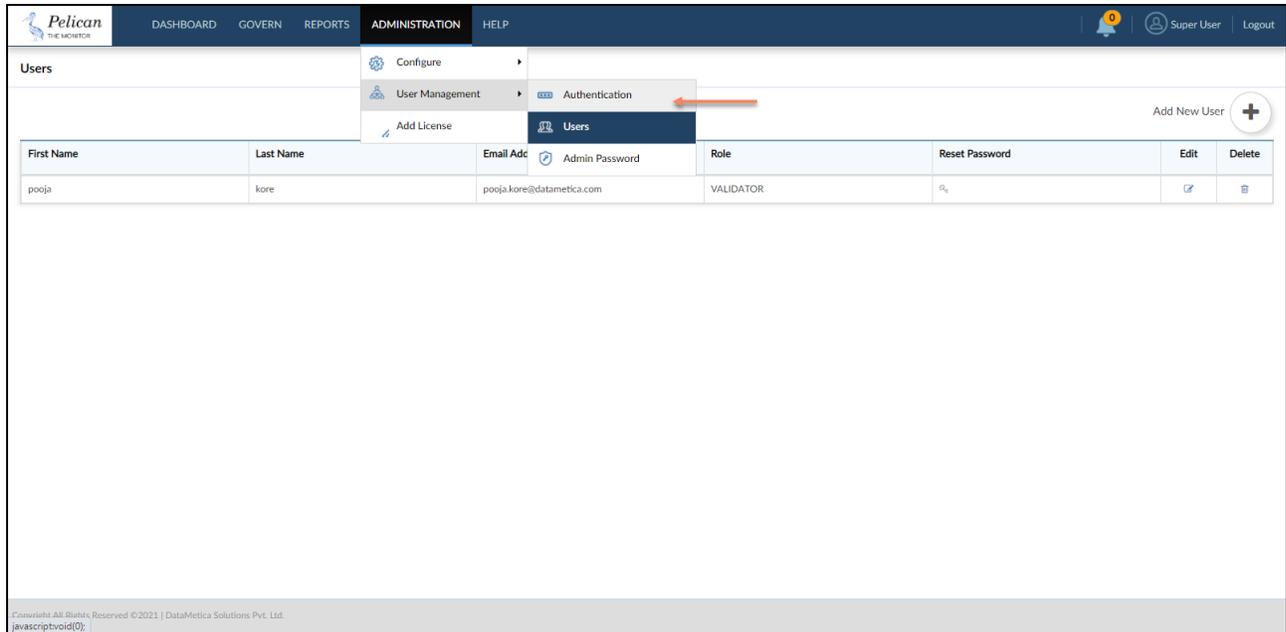
- Setting LDAP credential
- Adding/editing/deleting users
- Accessing control
- Assigning roles to the users
- Administrating Pelican
- Adding/editing roles
- Granting permissions
- Assigning/editing/deleting user groups

5.6.1. Authentication

You can add the Authentication details for the LDAP/ Active Directory

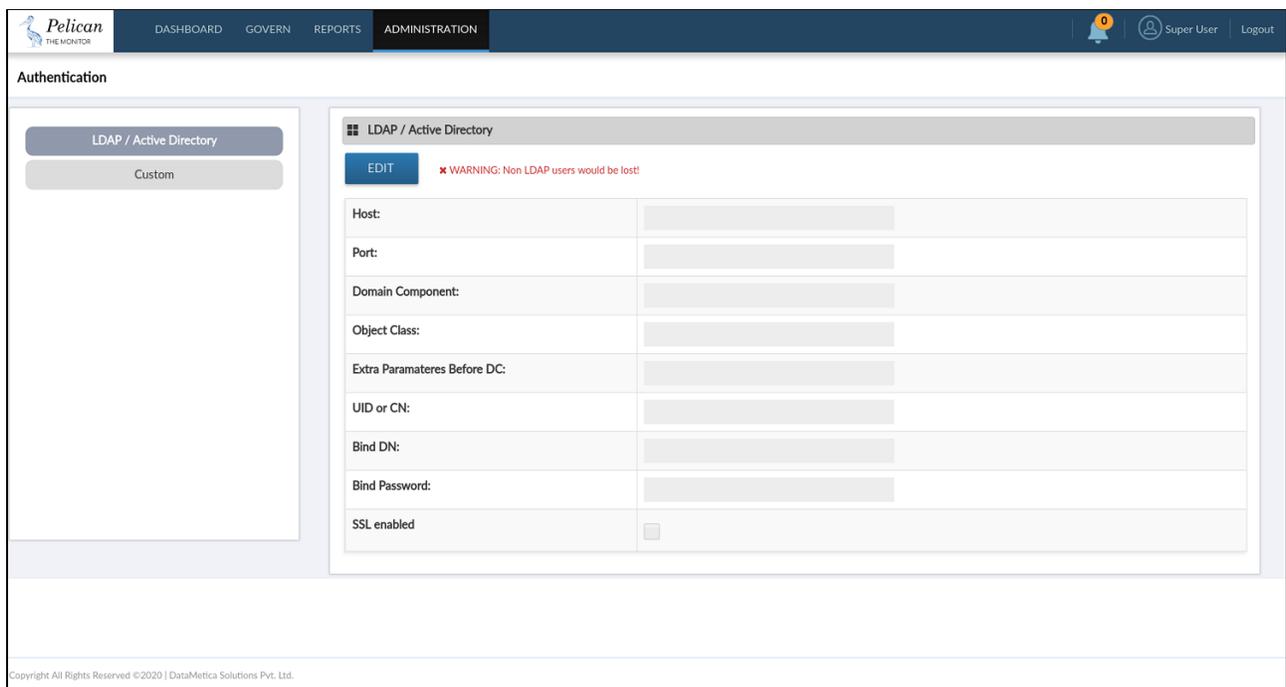
Steps

1. Go to **Administration > User Management > Authentication**.
2. Click **Edit**.



The screenshot shows the 'ADMINISTRATION' menu in the Pelican interface. The 'Users' option is highlighted, and a red arrow points to the 'Authentication' sub-option. Below the menu is a table of users.

First Name	Last Name	Email Adc	Admin Password	Role	Reset Password	Edit	Delete
pooja	kore	pooja.kore@datametica.com		VALIDATOR			



The screenshot shows the 'Authentication' configuration page. The 'LDAP / Active Directory' tab is selected. A warning message states: 'WARNING: Non LDAP users would be lost!'. The configuration form includes the following fields:

- Host: [Text Input]
- Port: [Text Input]
- Domain Component: [Text Input]
- Object Class: [Text Input]
- Extra Paramateres Before DC: [Text Input]
- UID or CN: [Text Input]
- Bind DN: [Text Input]
- Bind Password: [Text Input]
- SSL enabled:

3. Enter Host, Port, Domain Component, Object Class, Extra Parameters Before DC, and other fields.
4. Select SSL enabled and click **DONE**.

<u>Field Name</u>	<u>Description</u>
Host	Ip or machine name on which Ldap server is running
Port	Port at which connection to the Ldap server is to be created
<i>Following fields are used to create the BaseDN, in which user should be searched</i>	
Domain Component	The comma separated values that are put with the attribute "dc"
Object Class	Object class decides the attributes of the entry and is part of the search criteria
Extra Parameters Before DC	Any extra parameters that are present between common name & domain component
UID or CN	Value of this field will be either uid or cn. This attribute denotes the common name of the user.
Bind DN	This field will hold the qualified value of the user which may be required to connect to Ldap
Bind Password	This field will hold the password corresponding to the user mentioned in above field
SSL Enabled	If Ldap is secured, check the checkbox. Certificate should also be configured in the pelican jvm

Note: Post Ldap/AD successful connection, we will need to restart Ldap so that added users can log in to the application.

After Configuring Authentication Page the user has to navigate to the bin folder where Pelican is installed. Stop the Pelican application using `./shutdown.sh`

Then navigate to `/webapps/ROOT/WEB-INF/classes/config.properties` file.

And add the following properties and corresponding values in it:

- 1) `authenticationByDistinguishedName = false`
- 2) `enterpriseIdAttribute = sAMAccountName`

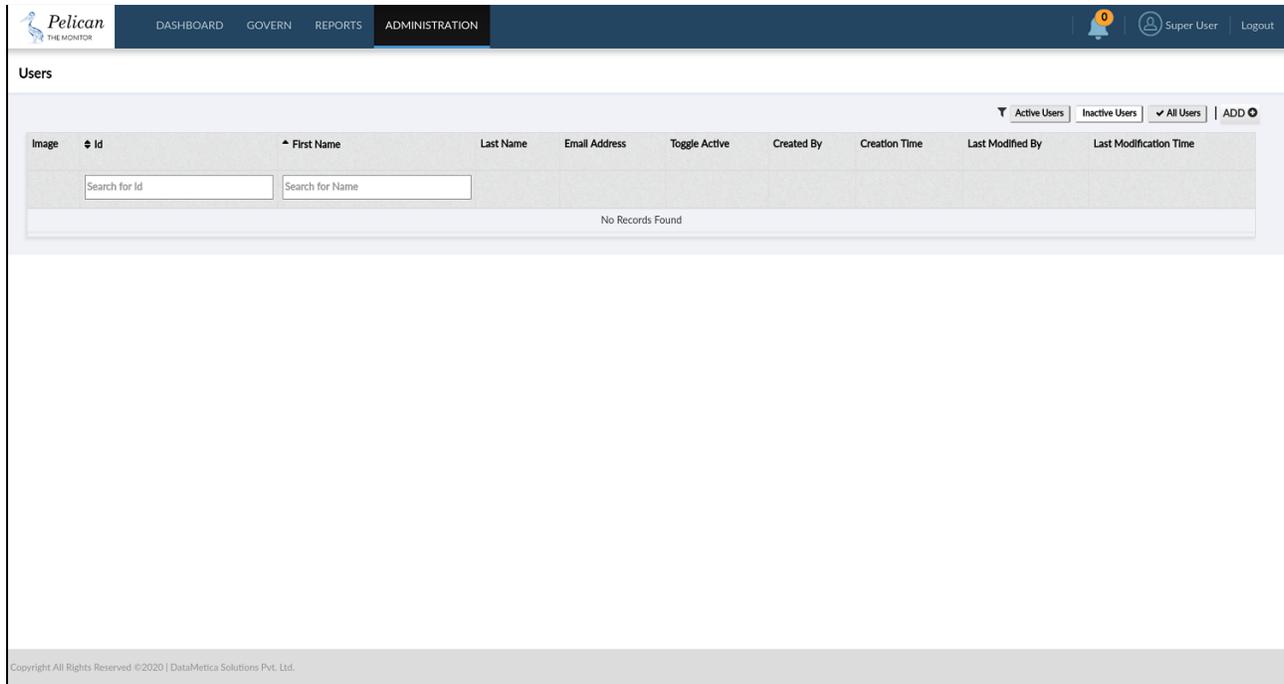
Note: Once you have added the credential super user can only create Ldap user and can't create non-Ldap users having role as admin or validator.

5.6.2. Adding Ldap Users

In **User Management** you can add new LDAP users and view the details on the *User* page.

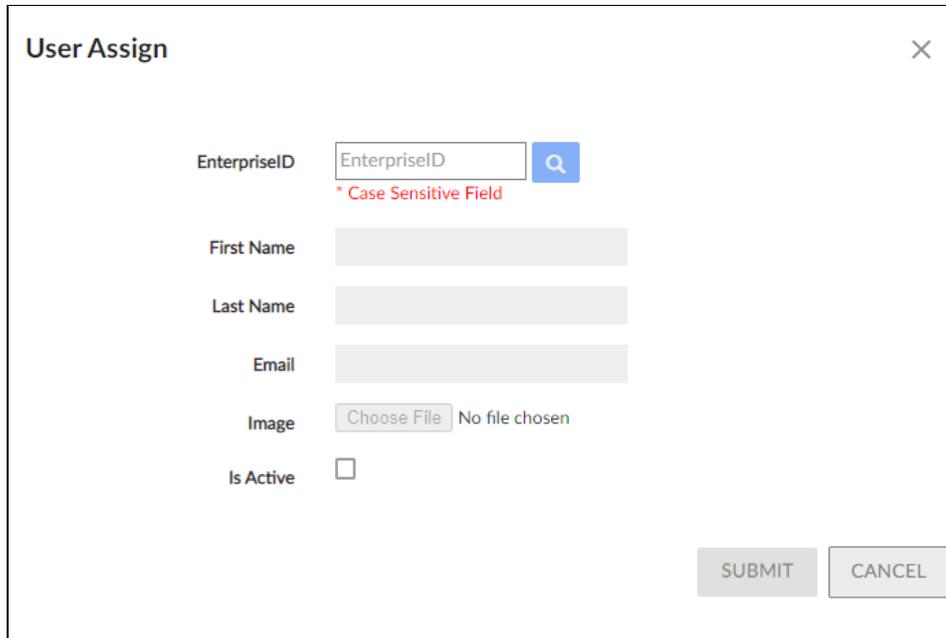
Steps

1. Go to **Administration > User Management > Users**.
2. Click the **ADD +** button.



The screenshot shows the 'Users' page in the Pelican system. The navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The 'ADMINISTRATION' tab is active. The page title is 'Users'. There are filters for 'Active Users', 'Inactive Users', and 'All Users', along with an 'ADD +' button. The table has columns: Image, Id, First Name, Last Name, Email Address, Toggle Active, Created By, Creation Time, Last Modified By, and Last Modification Time. Search boxes are provided for 'Id' and 'Name'. The table currently displays 'No Records Found'.

3. On the **User Assign** form enter EnterpriseID and all other details are visible automatically in the fields.
4. Select the Is Active checkbox and click **SUBMIT**.



The image shows a 'User Assign' form with the following fields and controls:

- EnterpriseID**: A text input field containing 'EnterpriseID' and a search icon. Below it is a red asterisk and the text '* Case Sensitive Field'.
- First Name**: A text input field.
- Last Name**: A text input field.
- Email**: A text input field.
- Image**: A 'Choose File' button and the text 'No file chosen'.
- Is Active**: A checkbox.

At the bottom right of the form are two buttons: 'SUBMIT' and 'CANCEL'.

Tips: You can apply filters to view all the active and inactive users by clicking Active or Inactive users.

5.6.3. Access Control

The Access Control features to:

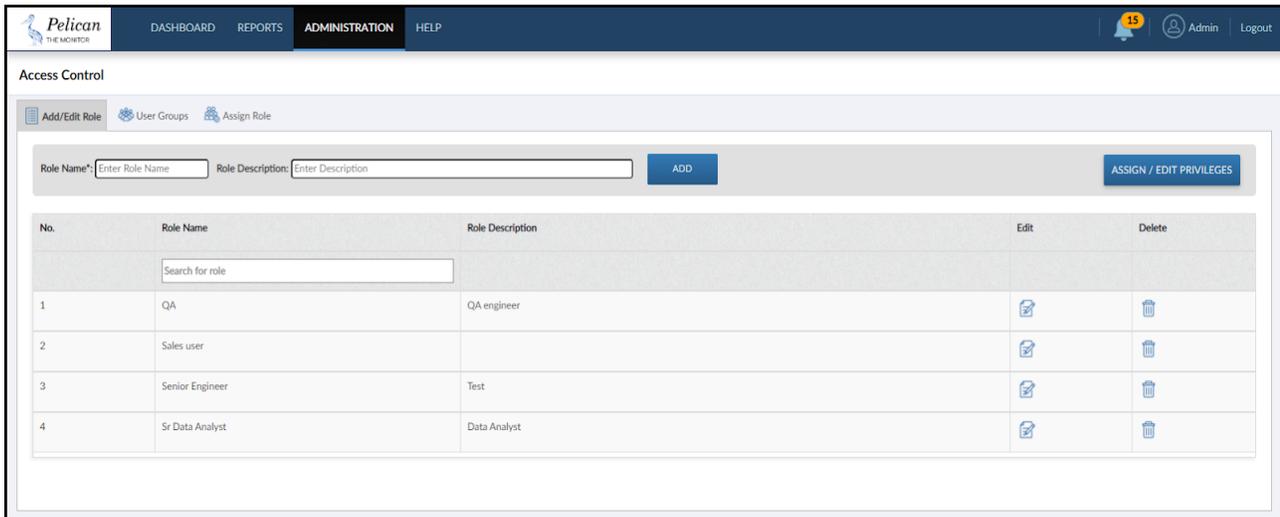
- Add a new role and editing an existing role
- Add user groups and assign users to the groups
- Editing or deleting existing user group
- Assigning or editing privileges
- Assigning role

5.6.4. Modify User

Admin can add new users and hence follow the steps as explained below.

Steps

1. Go to **Administration > User Management > Access Control**.
2. Click **ADD** in the *Add/Edit Role* tab after you Role Name and Role Description.



Access Control

Add/Edit Role User Groups Assign Role

Role Name: Role Description: **ADD** **ASSIGN / EDIT PRIVILEGES**

No.	Role Name	Role Description	Edit	Delete
	<input type="text" value="Search for role"/>			
1	QA	QA engineer		
2	Sales user			
3	Senior Engineer	Test		
4	Sr Data Analyst	Data Analyst		

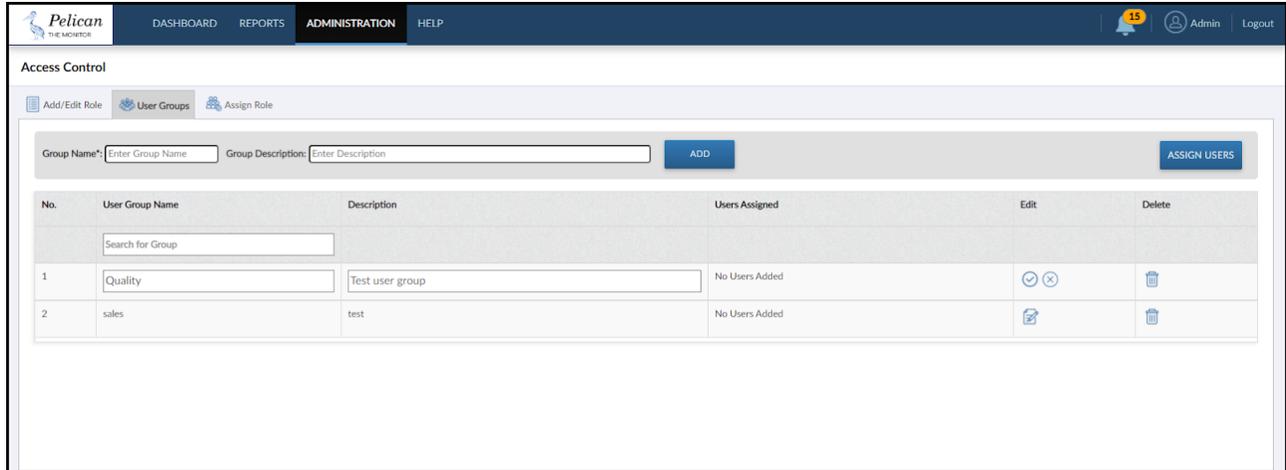
3. Click the edit icon for editing the Role Name and Role Description. Click  to save the changes.
4. Click the delete icon for deleting the Role Name and Role Description. The system displays a confirmation dialog box and then clicks **OK**.

5.6.5. Modify Groups

You can add a user group and assign users to the users to any specific group.

Steps for adding a new group and editing or deleting existing group

1. Go to **Administration > User Management > Access Control**.
2. In the *User Groups* tab, enter the **Group Name** and **Group Description**.
3. Click **ADD**.



4. Click the edit icon for editing the User Group Name and Group Description. Click

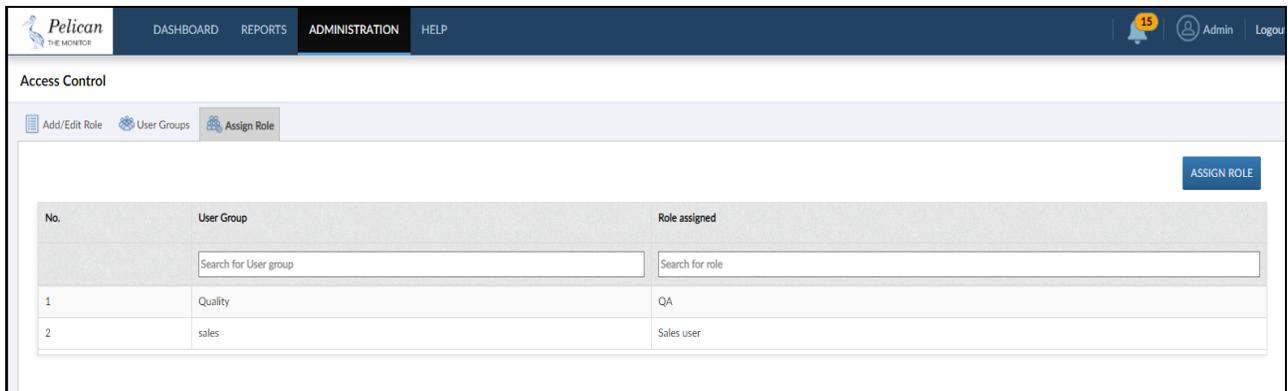
 to save the changes.

5. Click the delete icon for deleting the user group name and description. The system displays a confirmation dialog box and then clicks on **OK**.

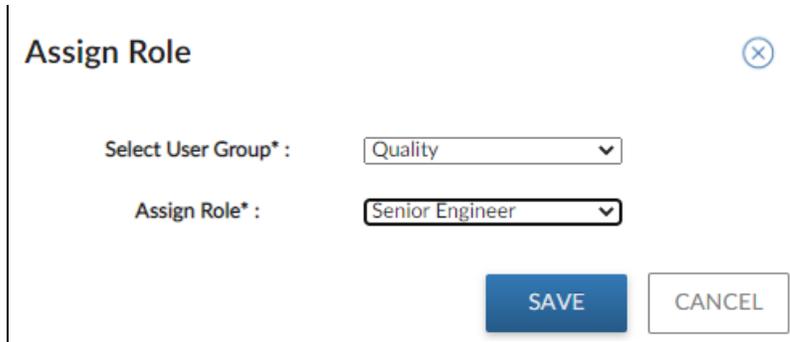
5.6.6. Assign Roles

You can assign specific roles to any group by following the below steps.

1. Go to **Administration > User Management > Access Control**.
2. In the *Assign Role* tab, enter the **User Group** and click **ASSIGN ROLE**.



3. Select User Group and Assign Role from the drop-down list.



Assign Role ✕

Select User Group* :

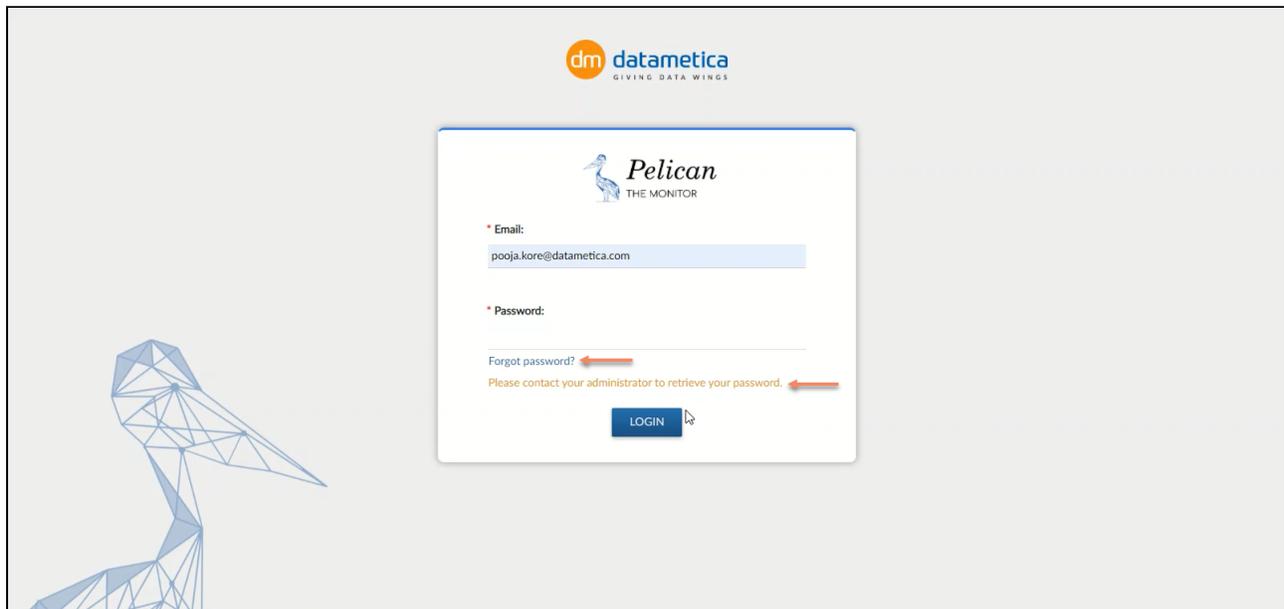
Assign Role* :

4. Click **SAVE**.

5.7. Forget Password

If you forget the password, for resetting the password, perform following steps.

Step 1: Click on the forget password.



 **datametica**
GIVING DATA WINGS

 **Pelican**
THE MONITOR

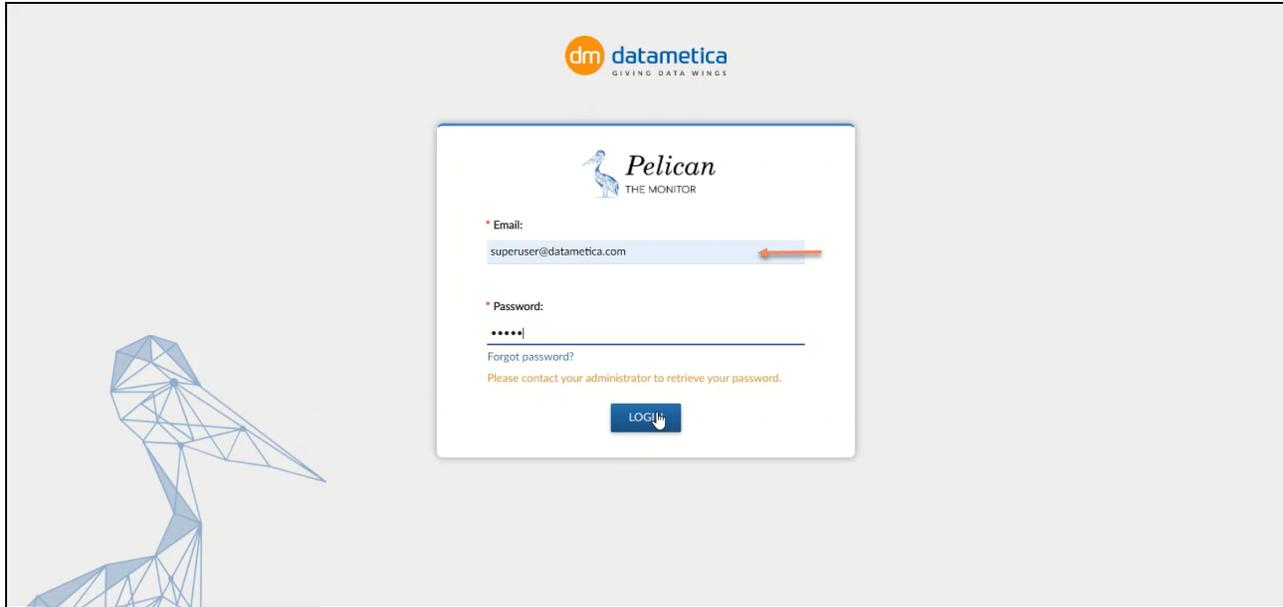
* Email:

* Password:

Forgot password? →

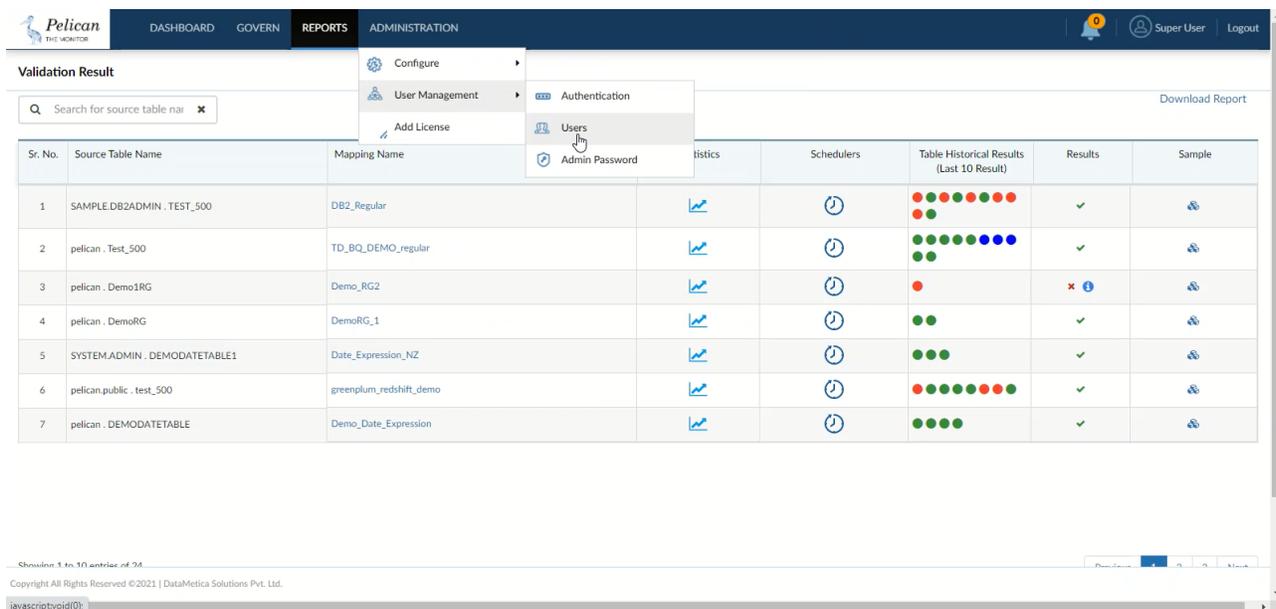
Please contact your administrator to retrieve your password. →

Step2: Contact one of the superusers or administrators and ask them to reset the password.



Step3: The administrator with the authority to reset the password will login in the system. Followed following steps,

Login → Administrator → User Management → Users.

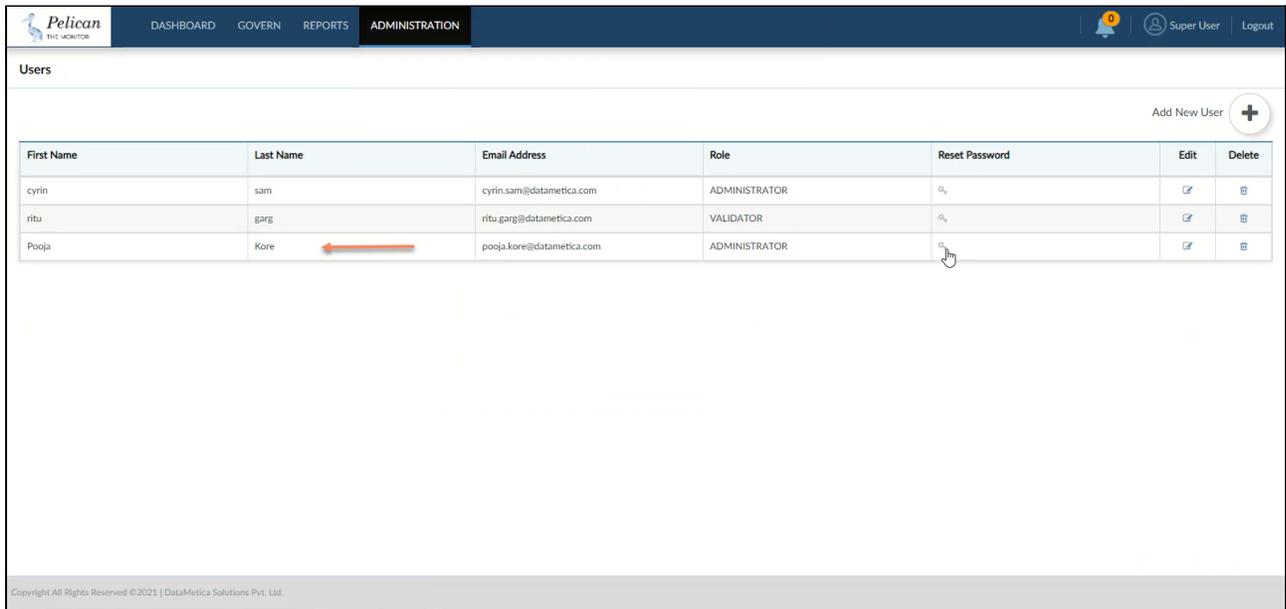


Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SAMPLE.DB2ADMIN . TEST_500	DB2_Regular				✓	
2	pelican . Test_500	TD_BQ_DEMO_regular				✓	
3	pelican . Demo1RG	Demo_RG2				✗	
4	pelican . DemoRG	DemoRG_1				✓	
5	SYSTEM.ADMIN . DEMODATETABLE1	Date_Expression_NZ				✓	
6	pelican.public . test_500	greenplum_redshift_demo				✓	
7	pelican . DEMODATETABLE	Demo_Date_Expression				✓	

Showing 1 to 10 entries of 24
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 javascript:void(0);

After clicking on the Users, the new screen will appear with the list of the users with the following parameter.

1. First Name
2. Last Name
3. Email Address
4. Role
5. Reset Password
6. Edit
7. Delete

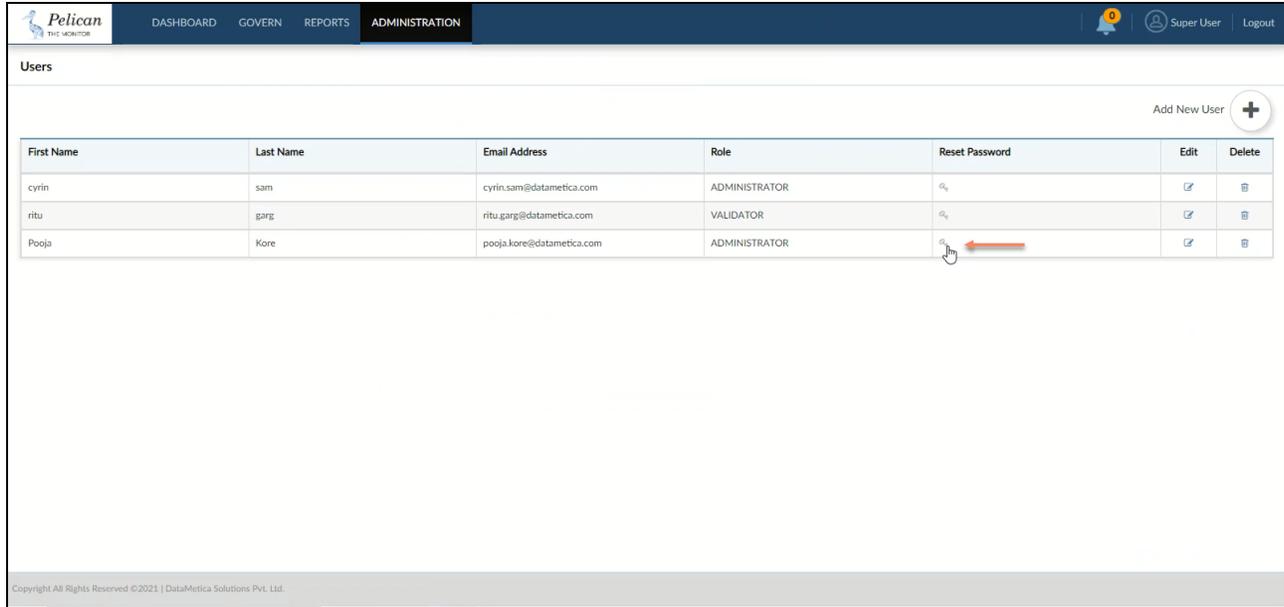


The screenshot shows the 'Users' management page in the Pelican system. The page has a dark blue header with navigation tabs: DASHBOARD, GOVERN, REPORTS, and ADMINISTRATION. The ADMINISTRATION tab is active. In the top right corner, there is a notification bell icon with a '1', a user profile icon labeled 'Super User', and a 'Logout' link. Below the header, the page title is 'Users'. On the right side, there is an 'Add New User' button with a plus sign icon. The main content area contains a table with the following data:

First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
cyrin	sam	cyrin.sam@datametica.com	ADMINISTRATOR			
ritu	garg	ritu.garg@datametica.com	VALIDATOR			
Pooja	Kore	pooja.kore@datametica.com	ADMINISTRATOR			

A red arrow points to the 'Reset Password' icon for the user 'Pooja'. The footer of the page contains the text: 'Copyright All Rights Reserved ©2021 | DataMetica Solutions Pvt. Ltd.'

Step 4: The superuser has to look for the validator who has requested to reset the password. Then click on the reset icon.



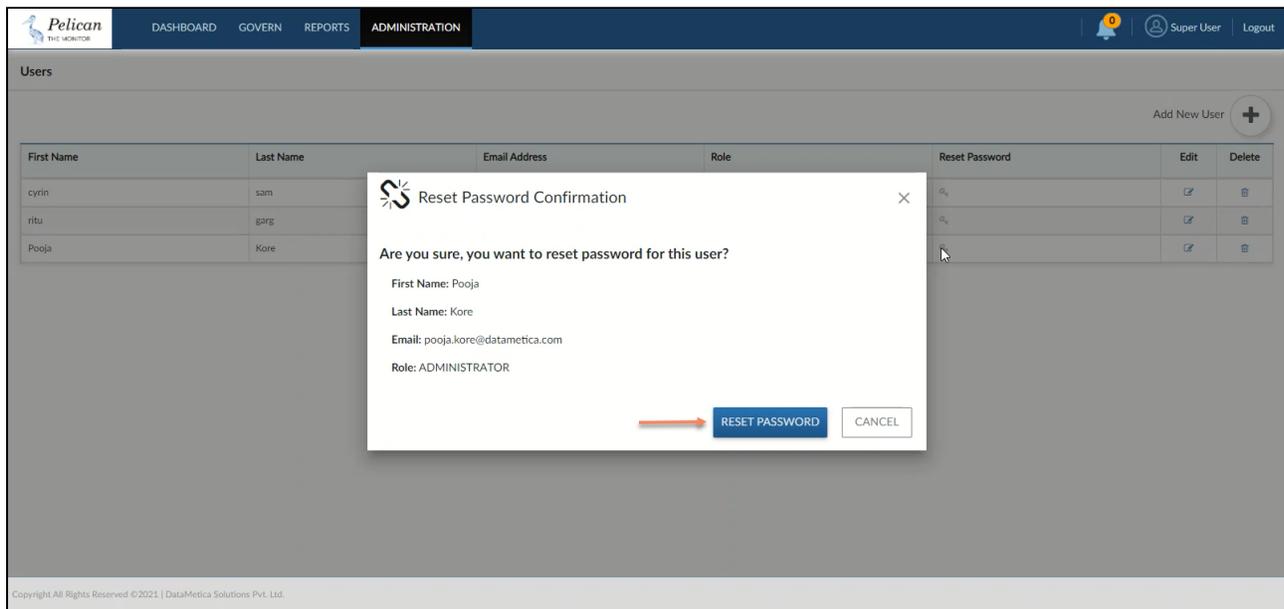
Users

Add New User +

First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
cyrin	sam	cyrin.sam@datametica.com	ADMINISTRATOR			
ritu	garg	ritu.garg@datametica.com	VALIDATOR			
Pooja	Kore	pooja.kore@datametica.com	ADMINISTRATOR	←		

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Step 5: The Reset Password Confirmation pop window will appear, it will ask for the confirmation to reset the password. Click on Reset Password.



Users

Add New User +

First Name	Last Name	Email Address	Role	Reset Password	Edit	Delete
cyrin	sam	cyrin.sam@datametica.com	ADMINISTRATOR			
ritu	garg	ritu.garg@datametica.com	VALIDATOR			
Pooja	Kore	pooja.kore@datametica.com	ADMINISTRATOR			

Reset Password Confirmation ✕

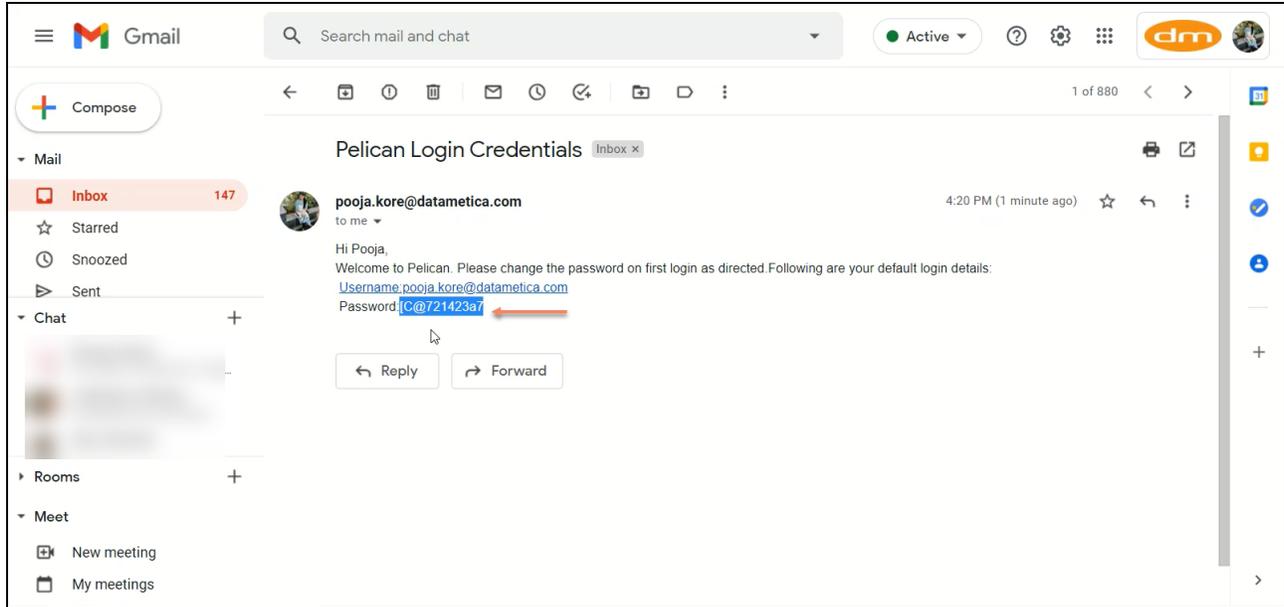
Are you sure, you want to reset password for this user?

First Name: Pooja
 Last Name: Kore
 Email: pooja.kore@datametica.com
 Role: ADMINISTRATOR

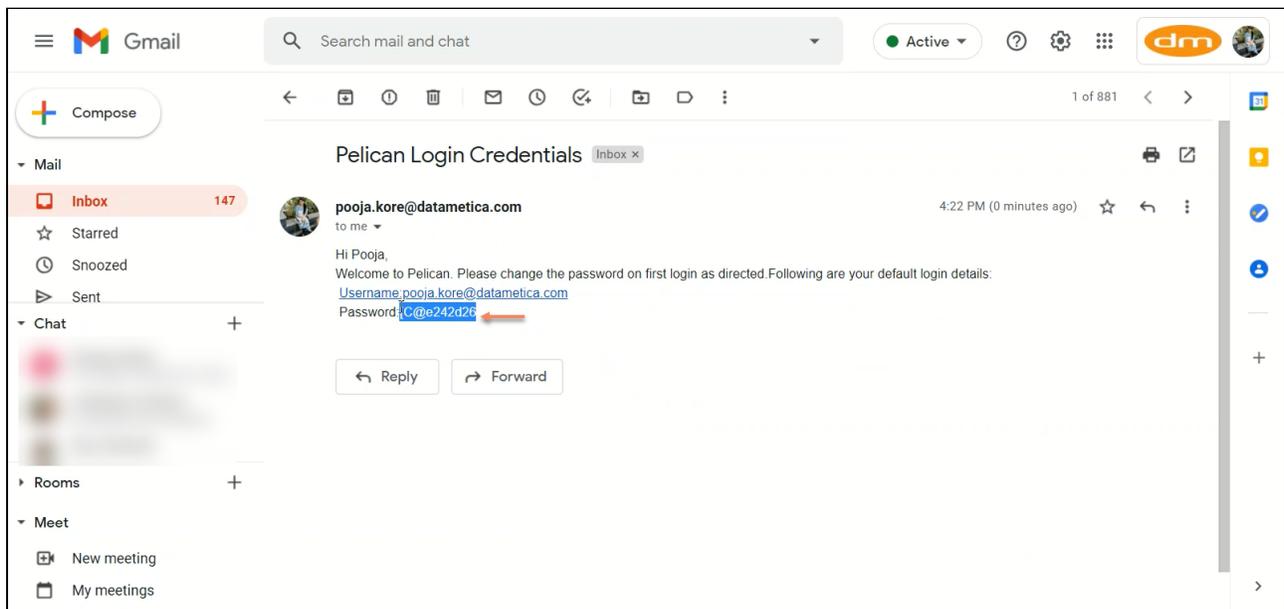
RESET PASSWORD
CANCEL

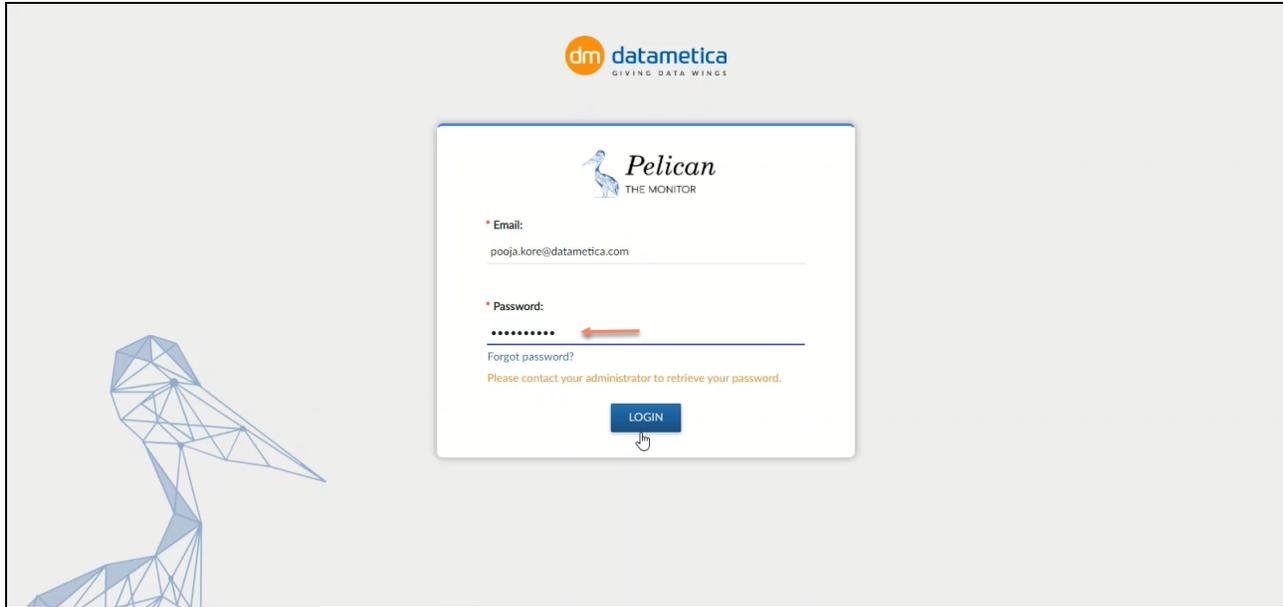
Copyright All Rights Reserved ©2021 | DataMetica Solutions Pvt. Ltd.

Step 6: The validator or superuser who has forgotten the password will receive an email with a new credential/ password.

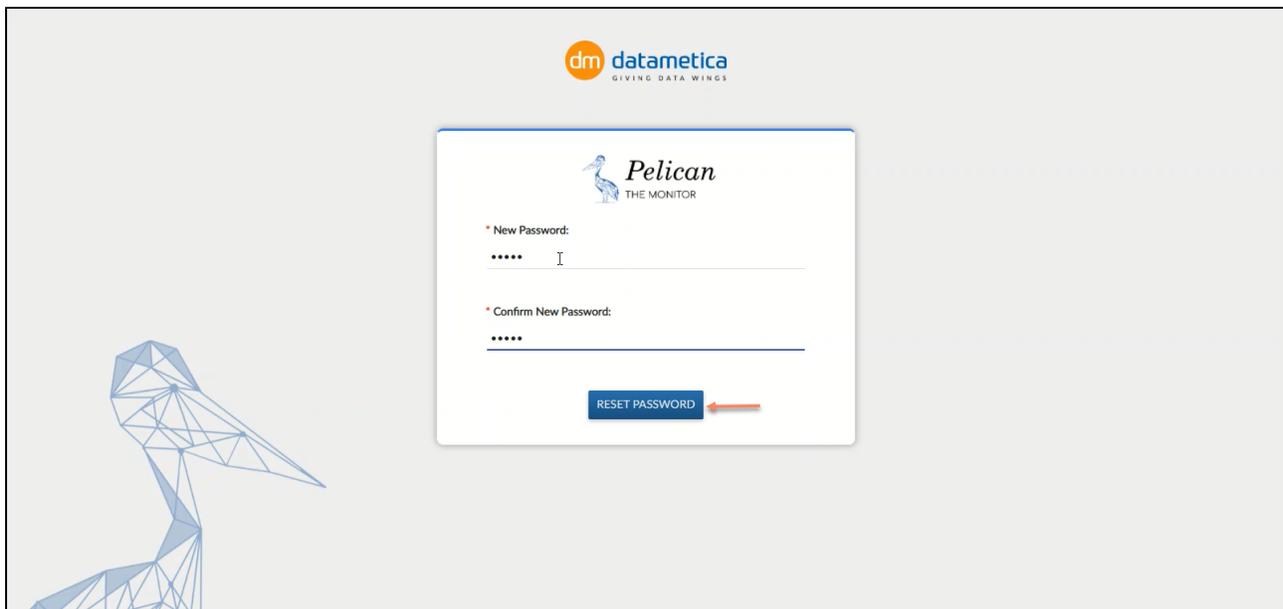


Step 7: Copy and paste the credentials form email to the login window and click on Login.





Step 8: The Reset Password window will appear, enter the New Password and Confirm New Password.



Step 9: Now login with a new Password. Pelican will be ready to use.

Pelican THE MONITOR | DASHBOARD GOVERN REPORTS **ADMINISTRATION** | Pooja-ADMIN | Logout

Validation Result

Search for source table name [Download Report](#)

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SAMPLEDB2ADMIN .TEST_500	DB2_Regular				✓	
2	pelican . Test_500	TD_BQ_DEMO_regular				✓	
3	pelican . Demo1RG	Demo_RG2				✗	
4	pelican . DemoRG	DemoRG_1				✓	
5	SYSTEM.ADMIN . DEMODATETABLE1	Date_Expression_NZ				✓	
6	pelican.public . test_500	greenplum_redshift_demo				✓	
7	pelican . DEMODATETABLE	Demo_Date_Expression				✓	

Showing 1 to 10 entries of 24

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6. Datastore Configuration

To compare and validate data across various data stores, first, you need to configure source and destination datastores in the Pelican. Pelican provides predefined data store types under which you can configure data stores as per the business requirement.

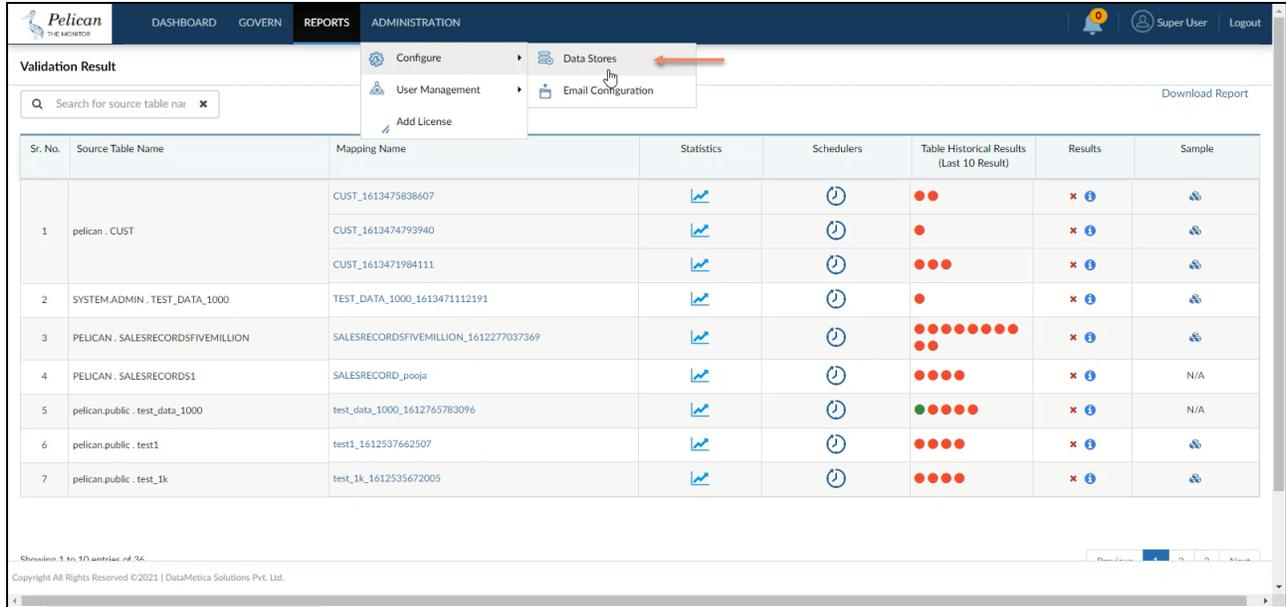
There are different data stores as listed in here.

- HIVE
- Netezza
- Teradata
- Oracle
- BigQuery
- DB2
- Snowflake
- Azure Synapse
- MS_SQL_Server
- Greenplum
- Redshift

The data configuration is similar for all the data stores except HIVE which has few more steps.

Here, lets see how to do data configuration. To narrate the steps I have,

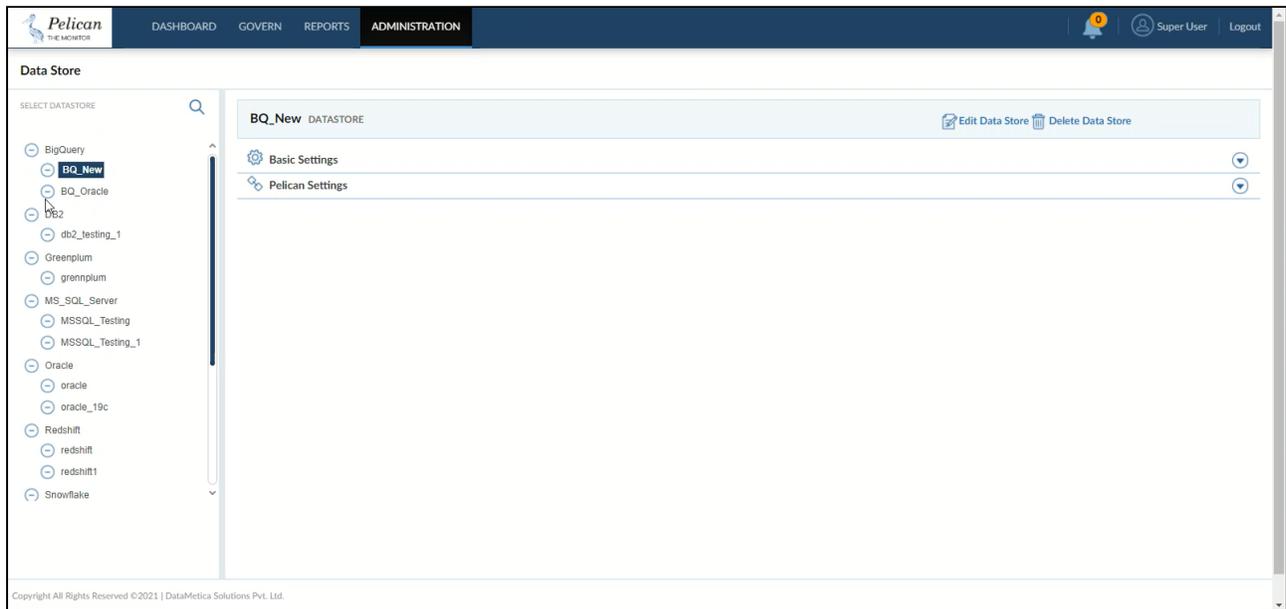
Go to **Administration** □ **Configure** □ **Data Store**.



The screenshot shows the 'ADMINISTRATION' menu in the Pelican interface. The 'Data Stores' option is highlighted with a red arrow. Below the menu is a 'Validation Result' table with the following data:

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	pelican . CUST	CUST_1613475838607			●●	✖ ⓘ	
		CUST_1613474793940			●	✖ ⓘ	
		CUST_1613471984111			●●●●	✖ ⓘ	
2	SYSTEM.ADMIN . TEST_DATA_1000	TEST_DATA_1000_161347112191			●	✖ ⓘ	
3	PELICAN . SALESRECORDSFIVEMILLION	SALESRECORDSFIVEMILLION_1612277037369			●●●●●●●●●●	✖ ⓘ	
4	PELICAN . SALESRECORDS1	SALESRECORD_pooja			●●●●●●	✖ ⓘ	N/A
5	pelican.public . test_data_1000	test_data_1000_1612765783096			●●●●●●	✖ ⓘ	N/A
6	pelican.public . test1	test1_1612537662507			●●●●●●	✖ ⓘ	
7	pelican.public . test_1k	test_1k_1612535672005			●●●●●●	✖ ⓘ	

This displays the **Data Store** screen as shown below.



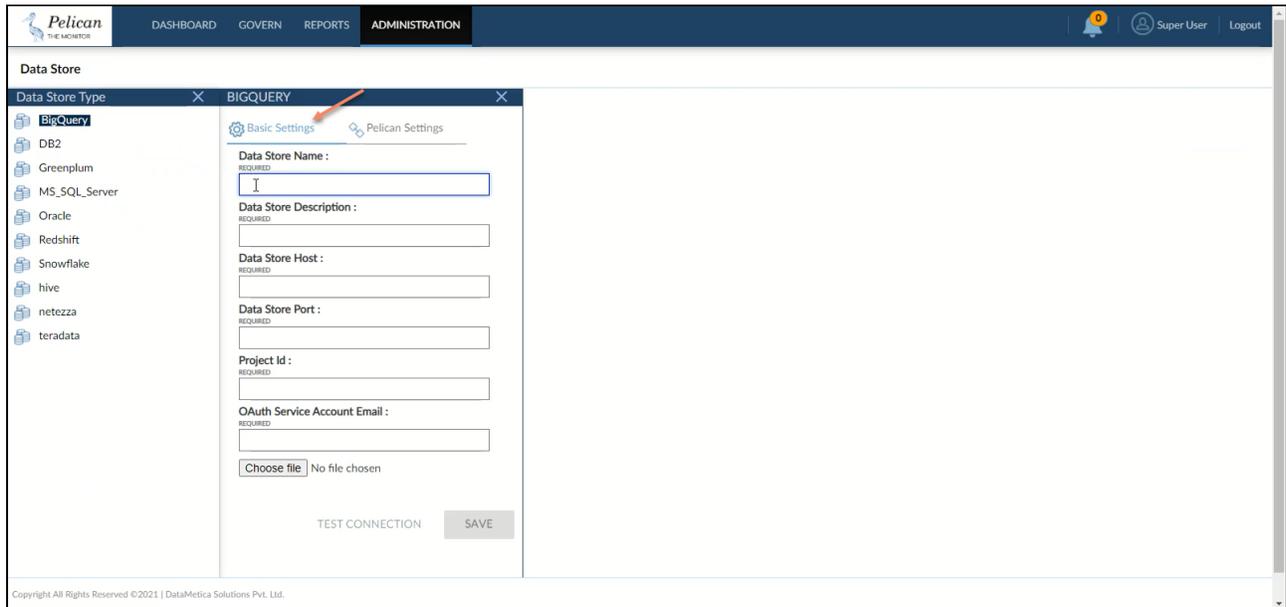
The screenshot shows the 'Data Store' configuration screen. On the left, there is a list of data stores with 'BQ_New' selected. The main area shows the configuration for 'BQ_New' with 'Basic Settings' and 'Pelican Settings' sections.

6.1. Steps for Database configuration

To perform the data store activities, you need to update the basic settings and pelican settings.

Step 1: To start the process, click on the datastore you want to create.

Step 2: Go to the Basic Setting tab.



The screenshot shows the 'Data Store' configuration page in the Pelican Administration interface. The 'Data Store Type' is set to 'BIGQUERY'. The 'Basic Settings' tab is selected, and the following fields are visible:

- Data Store Name:** (REQUIRED) - Input field with a cursor.
- Data Store Description:** (REQUIRED) - Input field.
- Data Store Host:** (REQUIRED) - Input field.
- Data Store Port:** (REQUIRED) - Input field.
- Project Id:** (REQUIRED) - Input field.
- OAuth Service Account Email:** (REQUIRED) - Input field.
- Choose file:** No file chosen

Buttons for 'TEST CONNECTION' and 'SAVE' are located at the bottom of the form.

Step 3: Enter the following information,

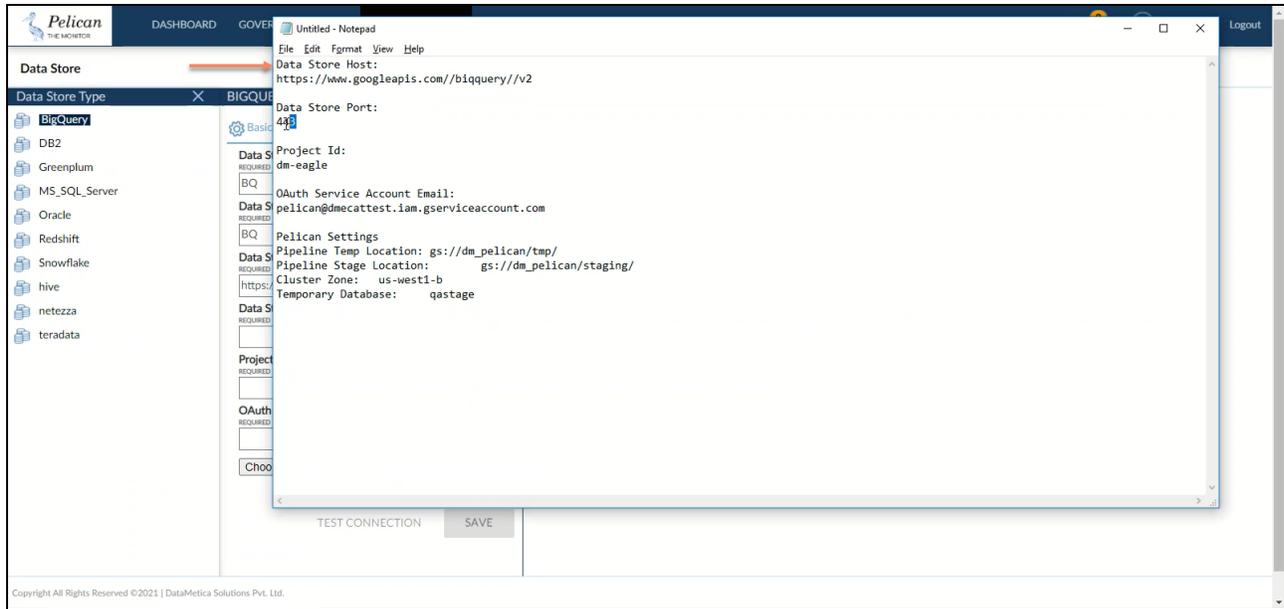
Basic setting:

1. Data Store Host: <https://www.googleapis.com/biqquery/v2>
2. Data Store Port: 443
3. Project Id: dm-eagle
4. O Auth Service Account Email: pelican@dmecattest.iam.gserviceaccount.com

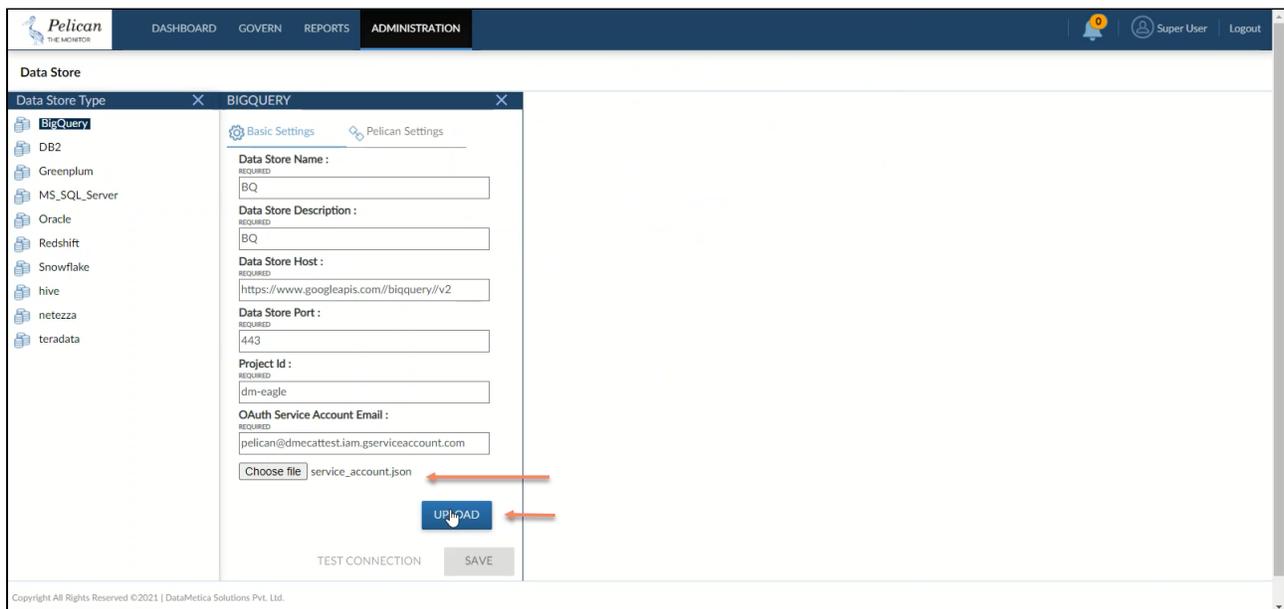
Pelican setting:

1. Pipeline Temp Location: gs://dm_pelican/tmp/
2. Pipeline Stage Location: gs://dm_pelican/staging/
3. Cluster Zone: us-west1-b
4. Temporary Database: qastage

Step 4: Add the Data Store Name and Data Store Description.

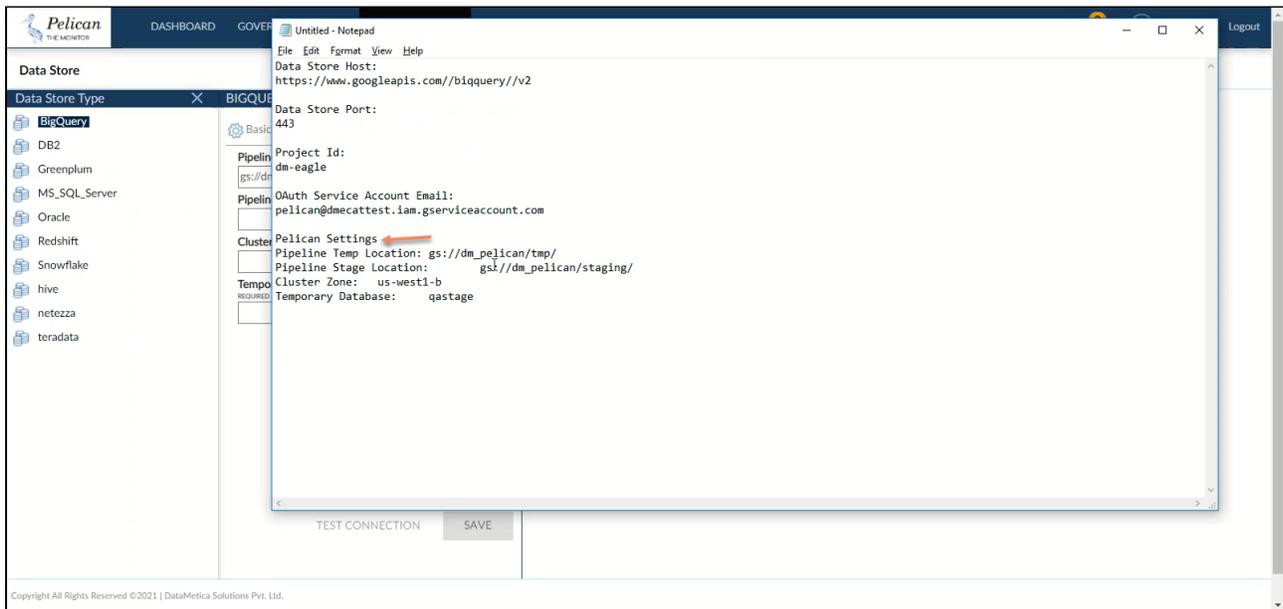
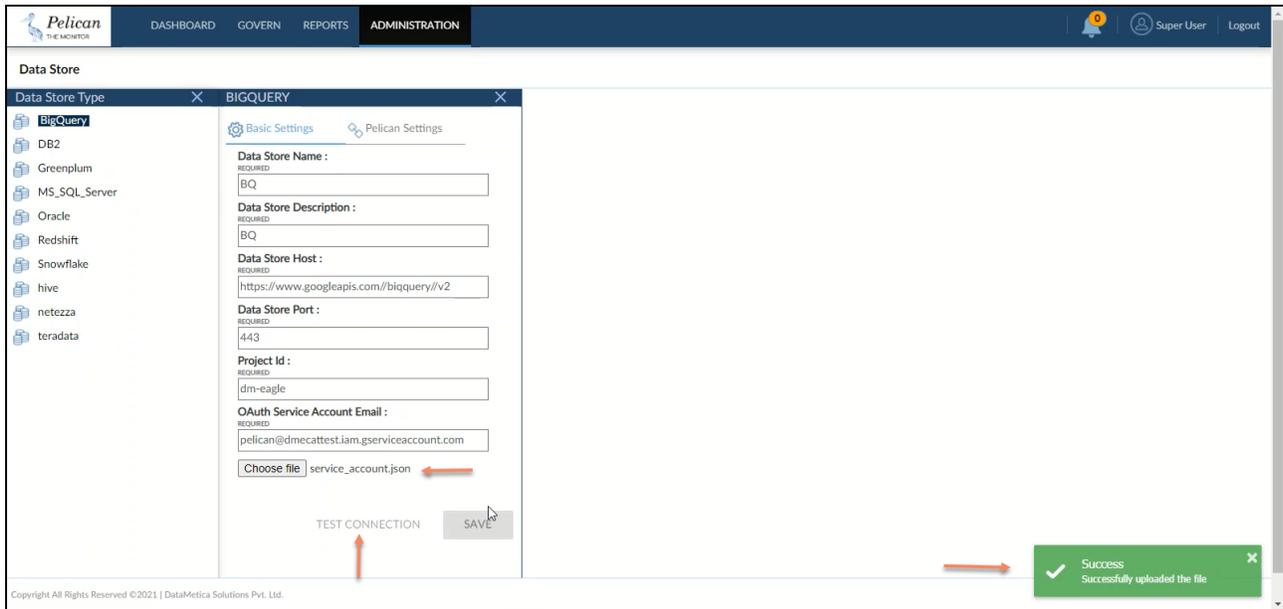


Step 5: Upload the service_account.json file.



Once you upload the file **service.account.json** and add all the details in the field, then click on the **TEST CONNECTION**. If everything is correct then it displays the Success message and enables the Save button.

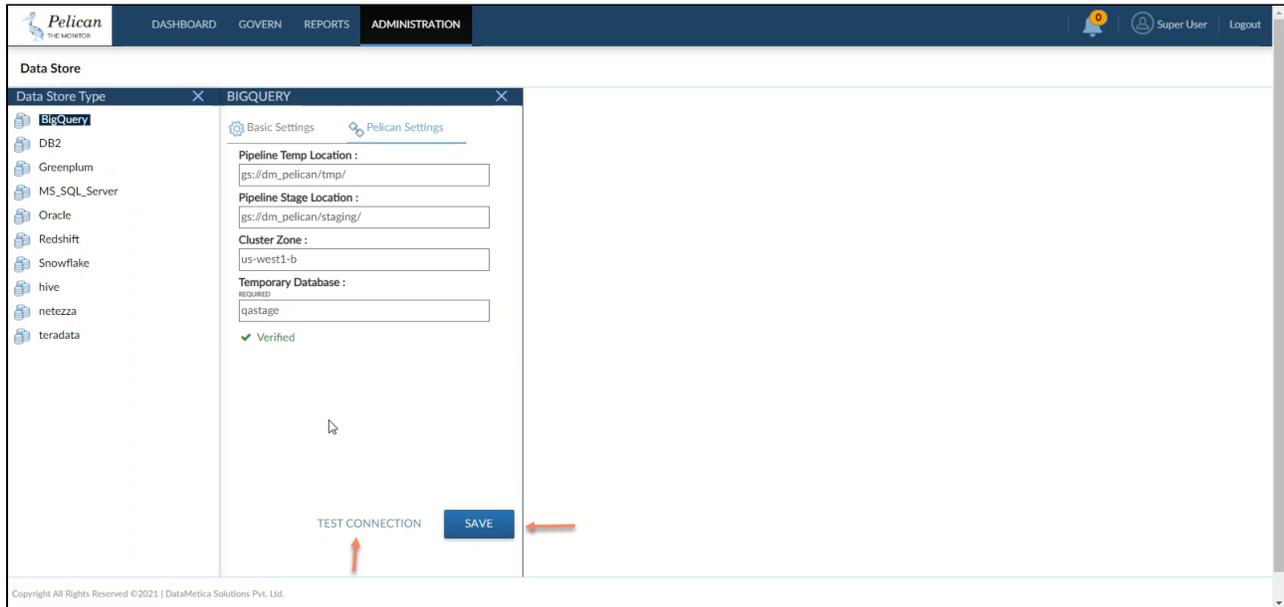
Step 6: Click on the **Save** button, to save the basic settings.



Step 6: Click on the **Pelican settings** button and enter the field details.

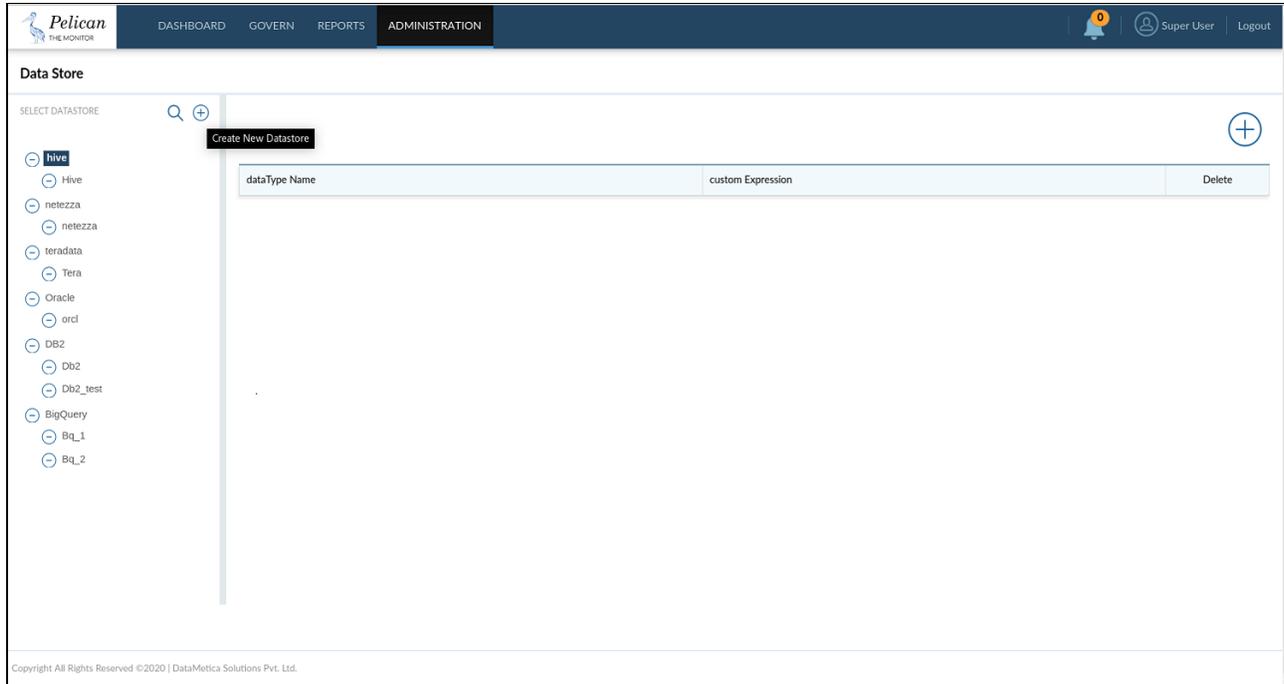
Step 7: Click on the test connection. If the connection is correct then the message will pop up as **Verified** in green color. Once the connection is verified, the **Save** button will be enabled.

S



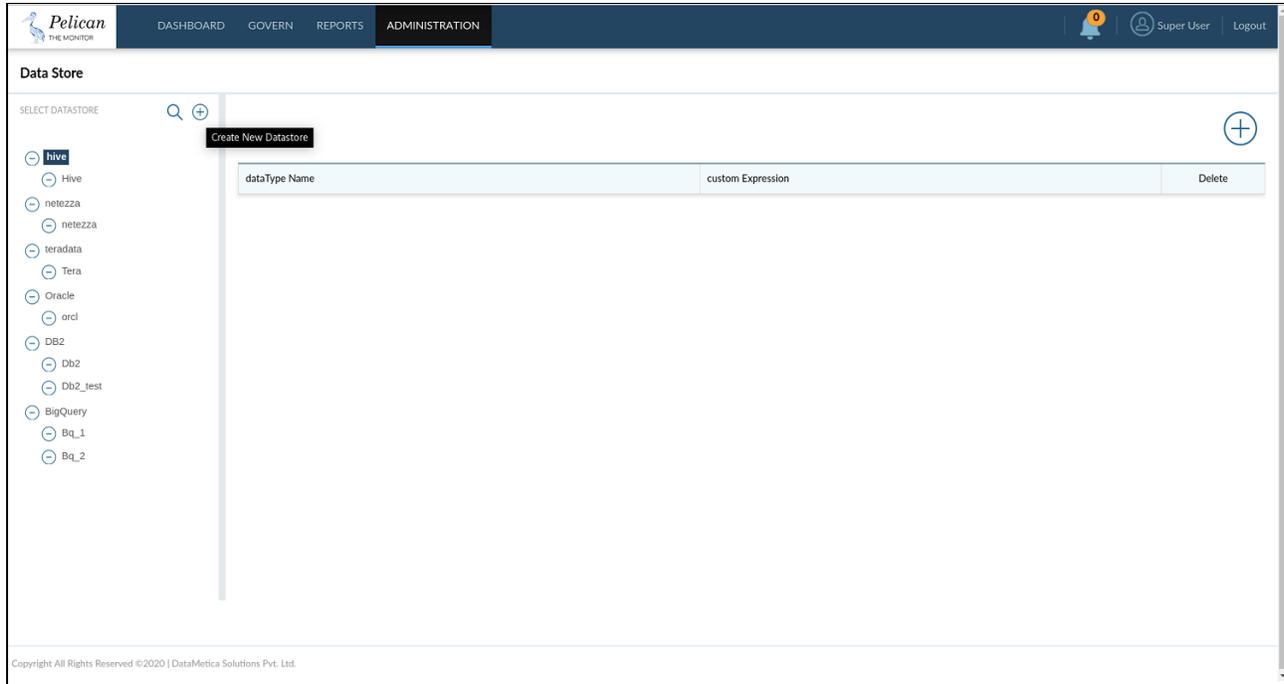
Steps to configure data store :

1. Go to **Administration** **Configure** **Datastore**. This displays the Data Store screen as shown below.

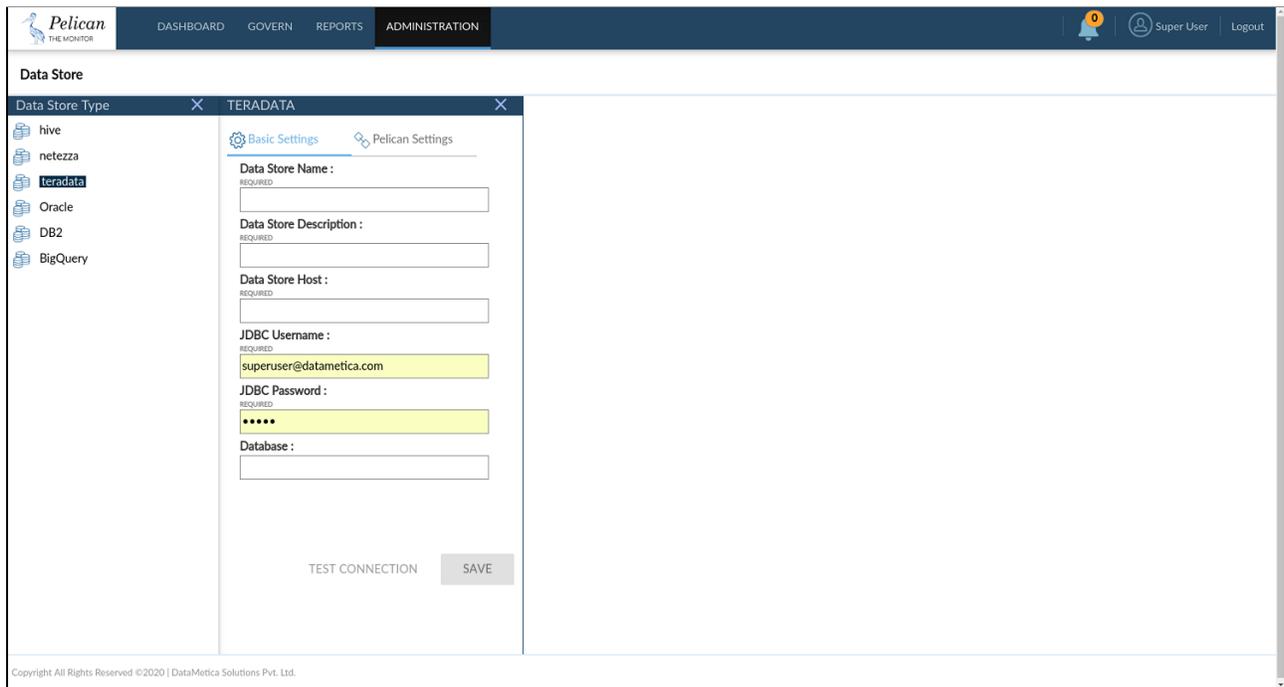


The Data Store screen displays predefined data stores at the left side of the screen under which you can create one or more databases.

2. Select **Datastore Type** and click the **Create New Datastore**  icon



3. Enter information in the various fields to configure the data store and click **Save**.



4. The newly created data store instance will be listed under the respective data store type as shown below.



Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from data store to data store.

For example, while configuring HIVE Datastore, you need to enter information in Basic Settings, Security Settings, JDBC Settings, Metadata Settings, Report Settings, Lineage Settings, and Pelican Settings sections; whereas while configuring most of the data stores except HIVE you need to enter information in Basic Settings and Pelican Settings sections.

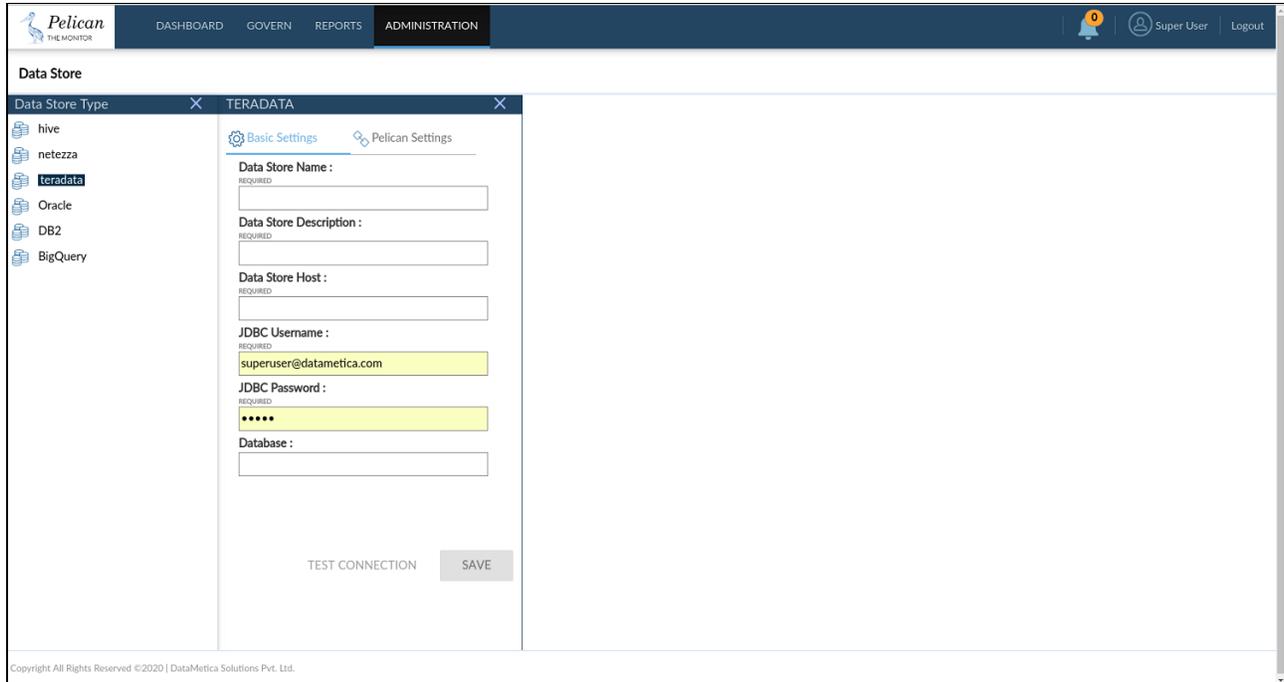
Additionally, the application provides Kerberos and SASL (Simple Authentication and Security Layer) authentication security support in the HIVE data store.

Use the above-mentioned steps to configure source and destination data store by entering the connectivity details and other necessary details.

6.2. Steps for Teradata Configuration

1. Go to **Administration > Configure > Datastore**.
2. At the left-hand side pane, a list of predefined data store lists is visible so select the

teradata in the data store field or enter the data store. Click  icon.



The screenshot shows the 'Data Store' configuration page in the Pelican Administration interface. The 'ADMINISTRATION' tab is active. On the left, a list of data store types includes 'hive', 'netezza', 'teradata', 'Oracle', 'DB2', and 'BigQuery'. The 'teradata' type is selected, and the 'Basic Settings' tab is active. The configuration form includes the following fields:

- Data Store Name :** (REQUIRED) [Empty text box]
- Data Store Description :** (REQUIRED) [Empty text box]
- Data Store Host :** (REQUIRED) [Empty text box]
- JDBC Username :** (REQUIRED) [superuser@datametica.com]
- JDBC Password :** (REQUIRED) [Masked with dots]
- Database :** [Empty text box]

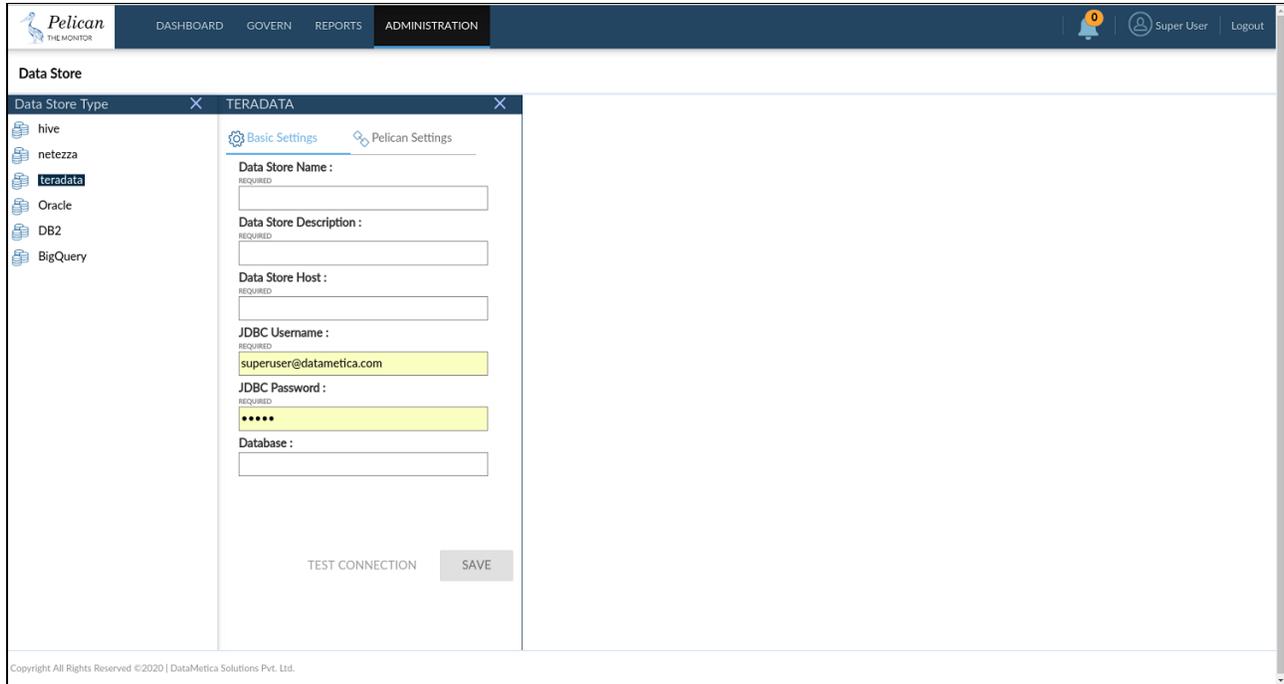
At the bottom of the form, there are two buttons: 'TEST CONNECTION' and 'SAVE'.

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3. Enter all the details in the Basic Settings tab fields and click **SAVE**.

You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary for each data store.

Information below does not fit the Section as in this section we should only concentrate on Teradata Settings.



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Basic Settings Field Descriptions

I have added descriptions for each field as clients are more interested in what to fill in the field. Please add descriptions for other data stores as well most of them are similar.

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.
JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.

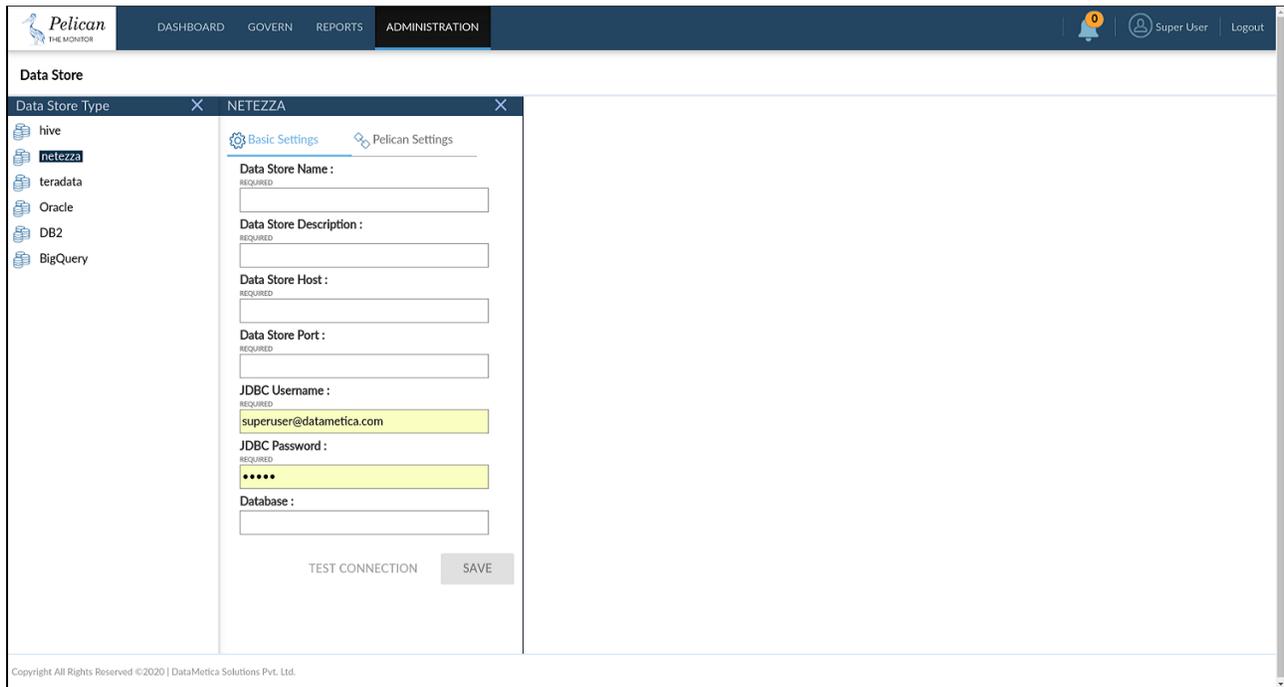
Database	Default database to connect.
-----------------	------------------------------

Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.3. Steps for Netezza Configuration

1. Go to **Administration > Configure > Datastore**.
2. At the left-hand side pane, a list of predefined data store lists is visible so select the **netezza** the data store field or enter the data store. Click  icon.



The screenshot shows the 'Data Store' configuration screen. On the left, a sidebar lists data store types: hive, netezza, teradata, Oracle, DB2, and BigQuery. The 'netezza' type is selected. The main area shows the configuration form for 'NETEZZA'. The form has two tabs: 'Basic Settings' (active) and 'Pelican Settings'. The 'Basic Settings' tab contains the following fields:

- Data Store Name :** REQUIRED (empty text box)
- Data Store Description :** REQUIRED (empty text box)
- Data Store Host :** REQUIRED (empty text box)
- Data Store Port :** REQUIRED (empty text box)
- JDBC Username :** REQUIRED (pre-filled with 'superuser@datametica.com')
- JDBC Password :** REQUIRED (masked with '*****')
- Database :** (empty text box)

At the bottom of the form are two buttons: 'TEST CONNECTION' and 'SAVE'.

The Data Store screen displays predefined data stores at the left side of the screen under which you can create one or more databases.

3. Enter information in the various fields to configure the data store and click **SAVE**.

You may view the created data store in the list under the respective data store type.

Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Descriptions

Field	Description
Data Store Name	The name the user wants given to the data store.

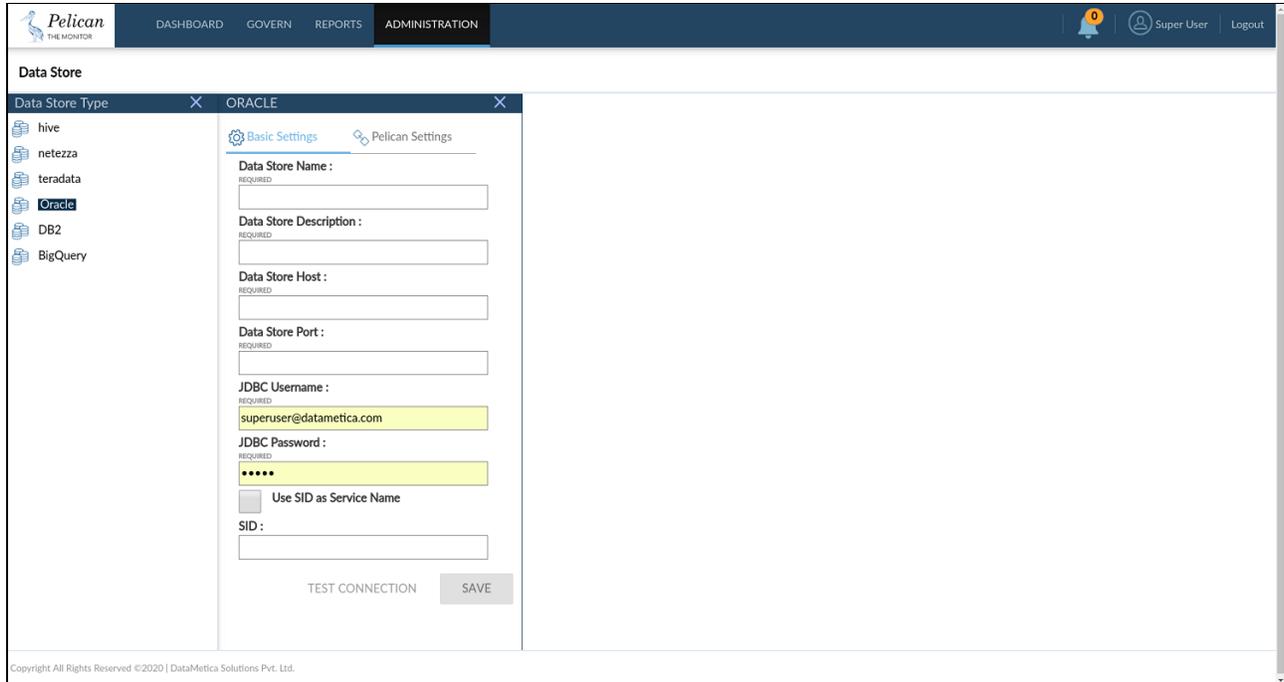
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.
JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.
Database	Default database to connect.

Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.4. Steps for Oracle Configuration

1. Go to **Administration > Configure > Datastore**.
2. At the left-hand side pane, a list of predefined data store lists is visible so select the **Oracle** the data store field or enter the data store. Click  icon.



The screenshot shows the 'Data Store' configuration page in the Pelican Administration interface. The 'ADMINISTRATION' tab is selected in the top navigation bar. On the left, a list of data store types includes 'hive', 'netezza', 'teradata', 'Oracle', 'DB2', and 'BigQuery'. The 'ORACLE' configuration form is open, displaying the following fields:

- Data Store Name :** (REQUIRED) [Text input field]
- Data Store Description :** (REQUIRED) [Text input field]
- Data Store Host :** (REQUIRED) [Text input field]
- Data Store Port :** (REQUIRED) [Text input field]
- JDBC Username :** (REQUIRED) [Text input field with value: superuser@datametica.com]
- JDBC Password :** (REQUIRED) [Text input field with masked password: ****]
- Use SID as Service Name
- SID :** [Text input field]

At the bottom of the form, there are two buttons: 'TEST CONNECTION' and 'SAVE'.

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3. Enter all the details in the Basic Settings tab fields and click **SAVE**.

You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Descriptions

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.
JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.
Use SID as Service Name	If service name is provided for an Oracle instance, then select this checkbox and enter service name value in the SID textbox.
SID	The SID is a site identifier.

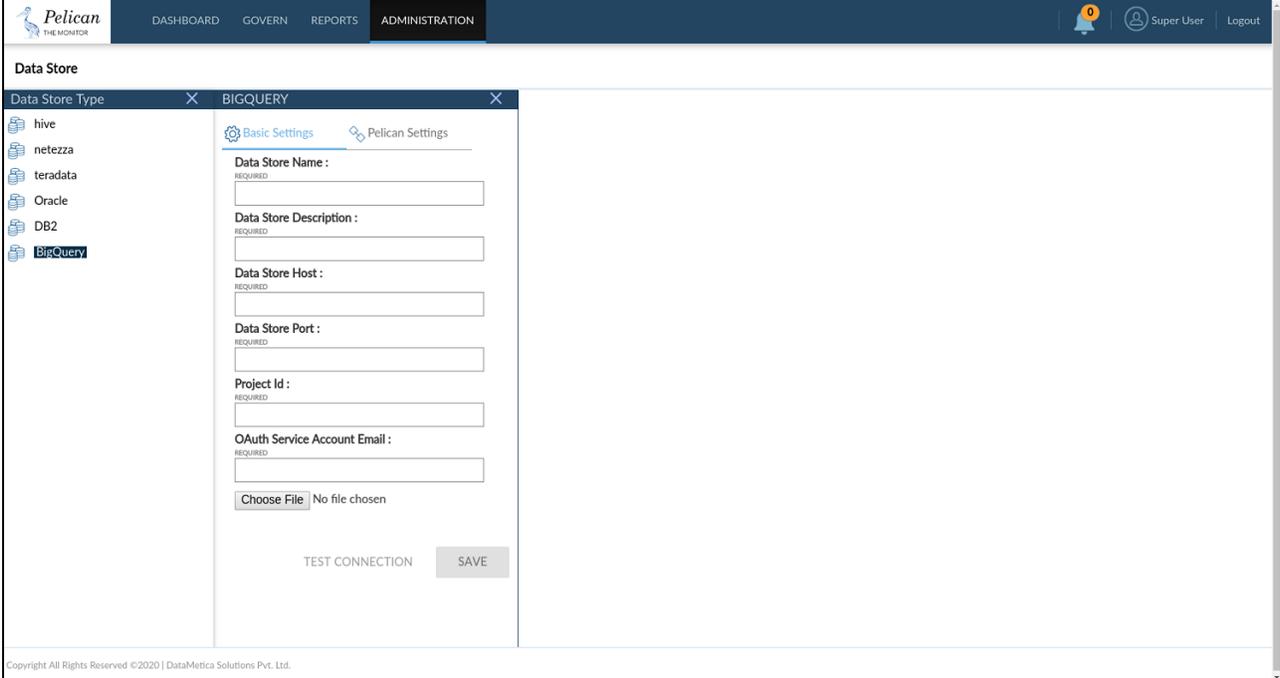
Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.5. Steps for BigQuery Configuration

1. Go to **Administration > Configure > Datastore**.
2. At the left-hand side pane, a list of predefined data store lists is visible so select the

BigQuery the data store field or enter the data store. Click  icon.



The screenshot shows the 'Data Store' configuration page in the Pelican dashboard. The 'ADMINISTRATION' tab is selected. On the left, a list of data store types includes 'hive', 'netezza', 'teradata', 'Oracle', 'DB2', and 'BigQuery'. The 'BigQuery' option is highlighted. A modal window titled 'BIGQUERY' is open, showing the 'Basic Settings' tab. The form contains the following fields:

- Data Store Name :** REQUIRED
- Data Store Description :** REQUIRED
- Data Store Host :** REQUIRED
- Data Store Port :** REQUIRED
- Project Id :** REQUIRED
- OAuth Service Account Email :** REQUIRED

Below the OAuth Service Account Email field is a 'Choose File' button with the text 'No file chosen'. At the bottom of the modal are 'TEST CONNECTION' and 'SAVE' buttons.

3. Click **Choose File**. And provide the path for google cloud service account key json file.
4. Enter all the details in the Basic Settings tab fields and click **SAVE**.

You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary for each data store.

Basic Settings Field Descriptions

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.
Project Id	BigQuery Project to which Pelican will connect,
OAuth Service Account Email	Service account email for authentication.

Pelican Settings Field Description

Field	Description
Pipeline Temp Location	
Pipeline Stage Location	
Cluster Zone	
Temporary Database	

6.6. Steps for HIVE Configuration

1. Go to **Administration > Configure > Datastore**.
2. At the left-hand side pane, a list of predefined data store lists is visible so select the

HIVE the data store field or enter the data store. Click  icon.

3. Enter all the details in the: Basic Settings, Security Settings, JDBC Settings, Metadata Settings, Report Settings, and Pelican Settings fields.
4. Click **SAVE**.

You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Descriptions

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Name Node Url Primary	URL of namenode required to get cluster configurations.
Name Node Url Secondary	URL of secondary namenode

Security Settings Field Description

Field	Description
Kerberos Enabled	Check box mark it true for kerberized Hive.
Use Sasl	Check box based if sasl is required
User Kerberos Principal	Pattern will be like user@organization.com.
Kerberos Service Principal for JDBC	A Kerberos principal is a unique identity to which Kerberos can assign tickets.
Kerberos Service Principal for Meta Store	HDFS meta store path

User Keytab Location	User keytab file location in case of Kerberos Enable.
SASL QOP Enable	Checkbox to enable SASL QOP
SASL QOP	SASL Mechanisms
Kerberos Enabled for JDBC	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Metastore	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Name node	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Resource Manager	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Job History Server	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Application Timeline Server	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Spark History Server	Can be checked true if Kerberos Enable is true.
Kerberos Enabled for Ranger	Can be checked true if Kerberos Enable is true.

JDBC Settings Field Descriptions

Field	Description
Enable Spark SQL Support	Checkbox if need to enable spark
JDBC Username	jdbc username.
JDBC Password	jdbc password.
JDBC Port	jdbc url and port.
File System	hdfs url and port.
Warehouse Directory	hdfs path.
Queue Name	Hive queue name
Queue Value	Hive queue value

Metadata Settings Field Descriptions

Field	Description
RPC Value	Authentication information
Metastore Thrift URL	Hive IP with 9083 port.
Ranger URL	Apache ranger url
Ranger User	Apache ranger username
Ranger Password	Apache ranger password

Report Settings Field Descriptions

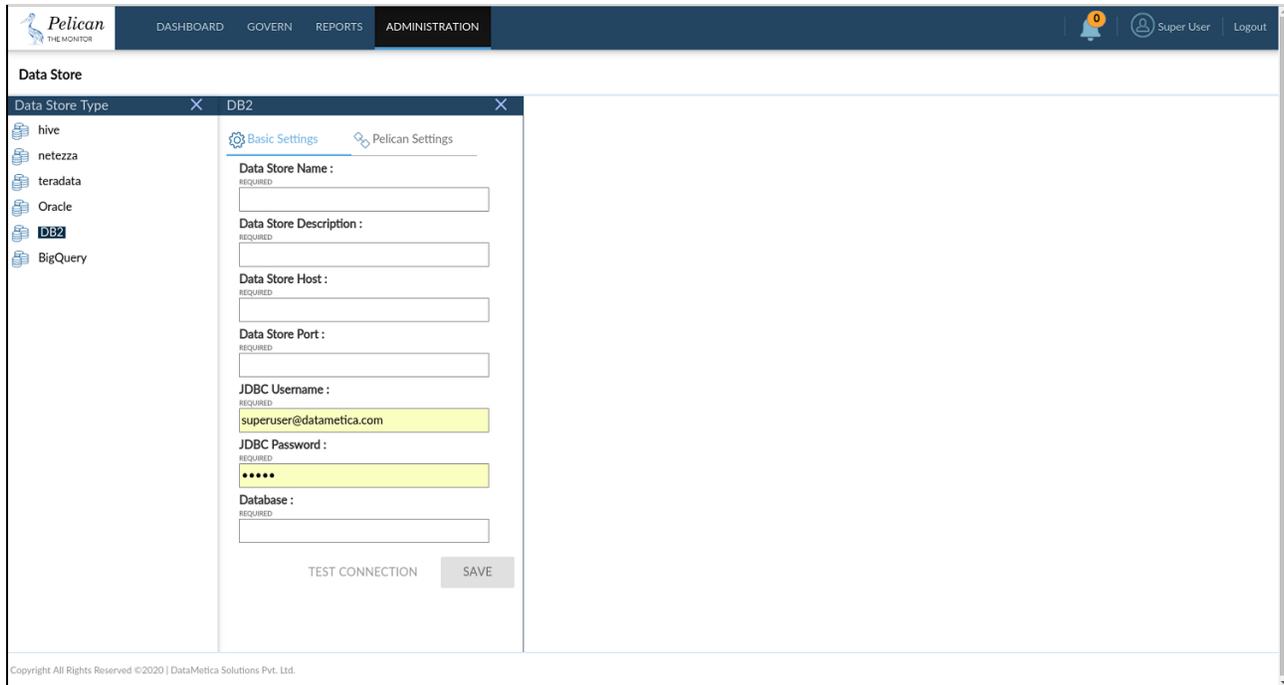
Field	Description
ResourceManager Server URL	Provide resource manager URL if you did not specify Name node URL under basic settings.

Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Create Hive UDFs	Checkbox if user wants Pelican to create UDFs (user defined functions in their Temporary Hive database)
Auxiliary Jar File	Jar file path for Hive Pelican UDFs.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.7. Steps for DB2 Configuration

1. Go to **Administration > Configure > Datastore.**
2. At the left-hand side pane a list of predefined data store list is visible so select the **DB2** the data store field or enter the data store. Click on  icon.



The screenshot shows the Pelican Administration interface. The top navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The 'ADMINISTRATION' tab is active. On the left, a 'Data Store' sidebar lists predefined types: hive, netezza, teradata, Oracle, **DB2**, and BigQuery. The main area displays the configuration form for a 'DB2' data store. The form is divided into 'Basic Settings' and 'Pelican Settings' tabs. The 'Basic Settings' tab is active and contains the following fields:

- Data Store Name :** (REQUIRED) [Text input field]
- Data Store Description :** (REQUIRED) [Text input field]
- Data Store Host :** (REQUIRED) [Text input field]
- Data Store Port :** (REQUIRED) [Text input field]
- JDBC Username :** (REQUIRED) [Text input field with value: superuser@datametica.com]
- JDBC Password :** (REQUIRED) [Text input field with masked characters: ****]
- Database :** (REQUIRED) [Text input field]

At the bottom of the form, there are two buttons: 'TEST CONNECTION' and 'SAVE'.

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3. Enter all the details in the: Basic Settings, Pelican Settings fields. Click **SAVE**. You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Description

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.
JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.
Database	Enter the name of the database

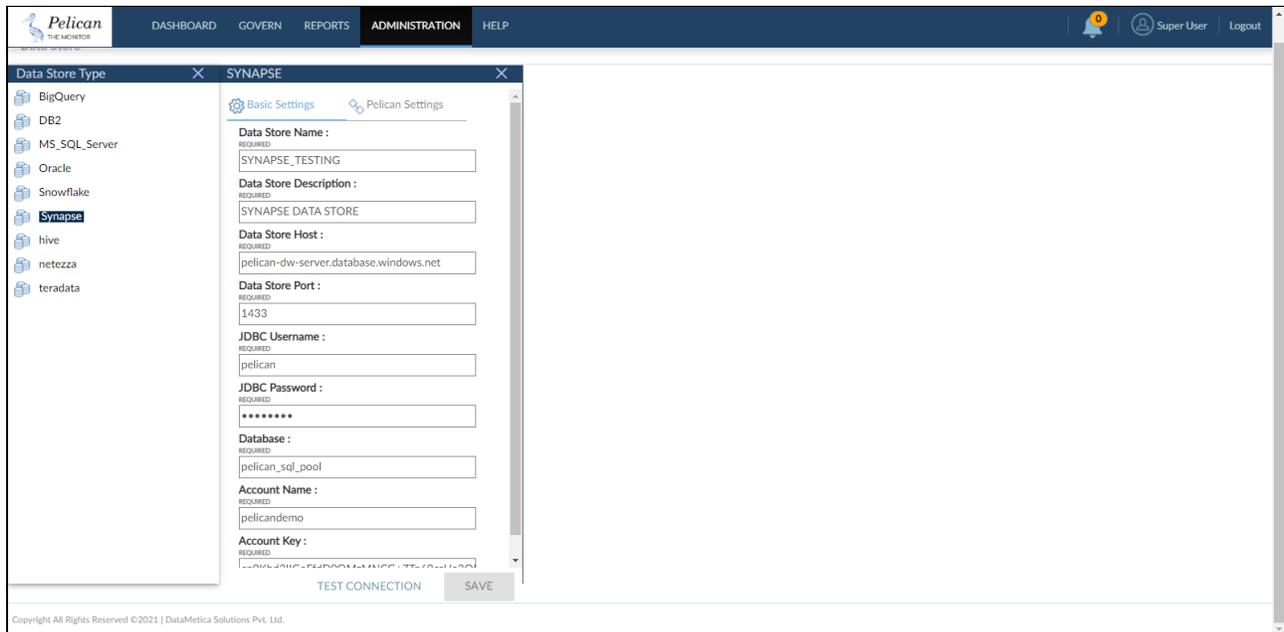
Pelican Settings Field Description

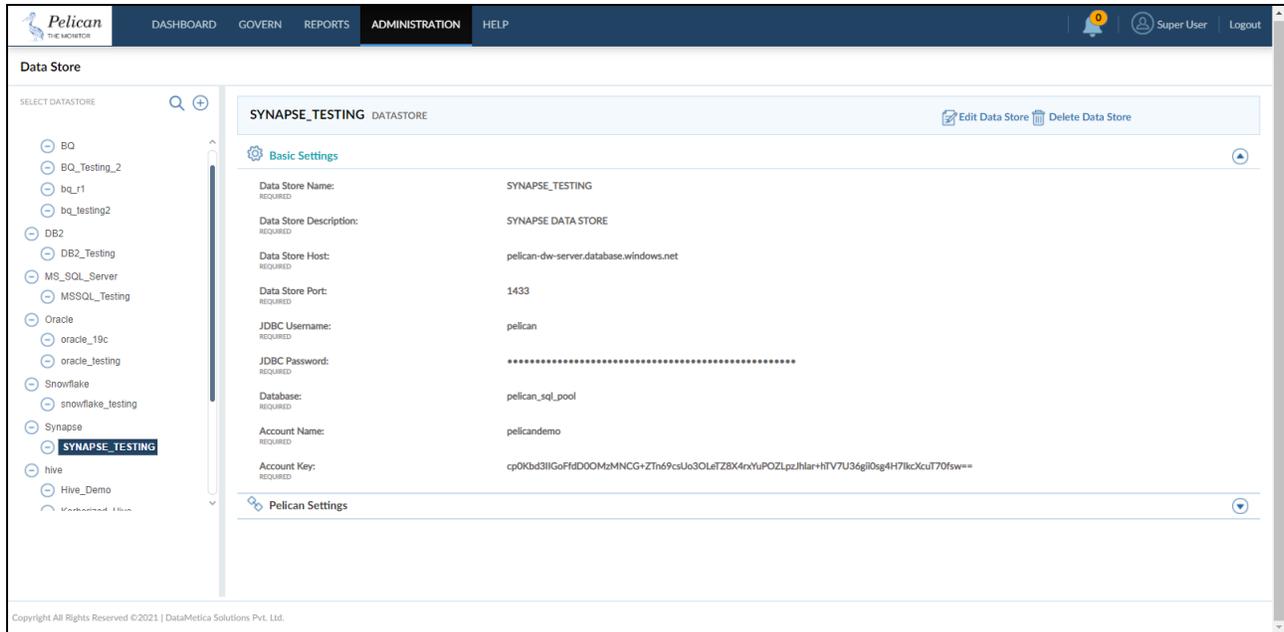
Field	Description
Temporary Database	Database used by Pelican for its functioning.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.8. 16.8. Steps for Synapse Configuration

4. Go to **Administration > Configure > Datastore**.
5. At the left-hand side pane a list of predefined data store list is visible so select the

Synapse the data store field or enter the data store. Click on  icon.





- Enter all the details in the: Basic Settings, Pelican Settings fields. Click **SAVE**. You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Description

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.

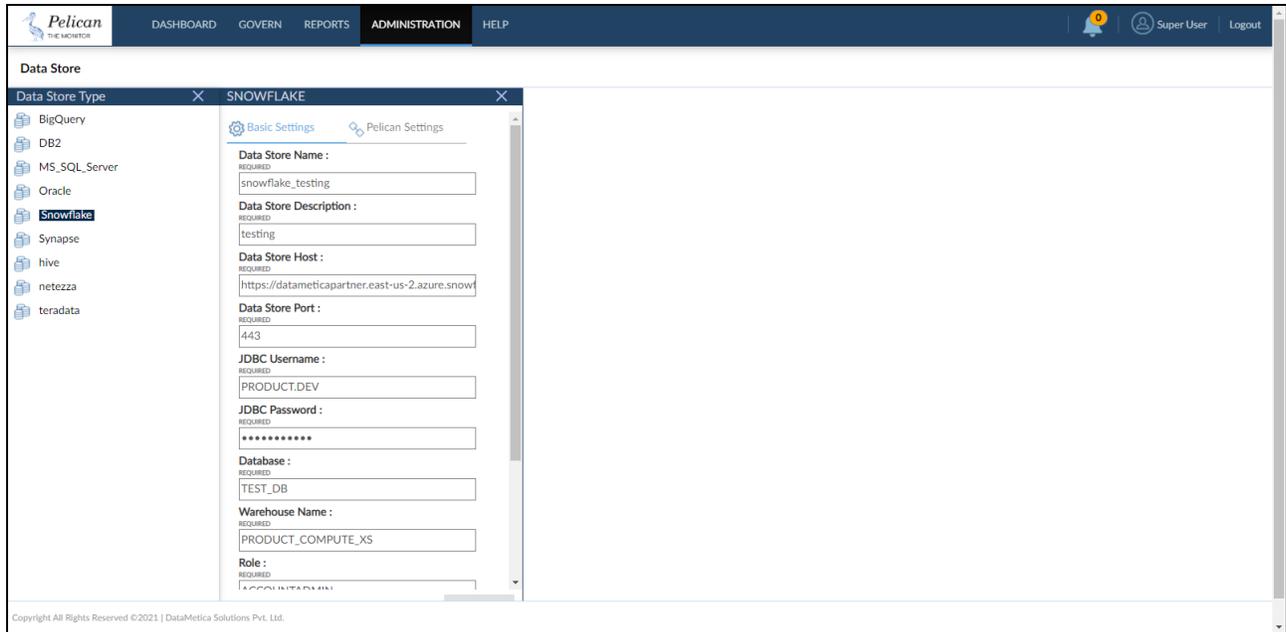
JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.
Database	
Account Name	
Account Key	

Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Supplementary DataStore Location	Writable Path on the machine where Pelican is installed.

6.9. Steps for snowflake Configuration

7. Go to **Administration > Configure > Datastore**.
8. At the left-hand side pane a list of predefined data store list is visible so select the **Snowflake** the data store field or enter the data store. Click on  icon.



9. Enter all the details in the: Basic Settings, Pelican Settings fields. Click **SAVE**. You may view the created data store in the list under the respective data store type. Similarly, you can configure any number of data store instances under the predefined data store type. The information to be entered while configuring the data store will vary from with different data stores.

Basic Settings Field Description

Field	Description
Data Store Name	The name the user wants given to the data store.
Data Store Description	Description for the data store.
Data Store Host	IP address of the data store host machine.
Data Store Port	JDBC port to connect to the data store.

JDBC Username	JDBC username using which Pelican will connect to the data store.
JDBC Password	JDBC password for the provided JDBC user.
Database	
Warehouse Name	
Role	
OAuth Service Account Email	
Project Id	

Pelican Settings Field Description

Field	Description
Temporary Database	Database used by Pelican for its functioning.
Cluster Zone	
Pipeline Temp Location	
Pipeline Stage Location	

6.10. How to edit or delete existing Datastore?

Step 1: Administration → Configure → Datastores

Pelican THE MONITOR | DASHBOARD GOVERN REPORTS ADMINISTRATION | Super User | Logout

Validation Result

Search for source table name:

Configure | Data Stores | User Management | Email Configuration | Add License | Download Report

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	pelican . CUST	CUST_1613475838607			●●	× ⓘ	
		CUST_1613474793940			●	× ⓘ	
		CUST_1613471984111			●●●	× ⓘ	
2	SYSTEM.ADMIN . TEST_DATA_1000	TEST_DATA_1000_1613471112191			●	× ⓘ	
3	PELICAN . SALESRECORDSFIVEMILLION	SALESRECORDSFIVEMILLION_1612277037369			●●●●●●●●	× ⓘ	
4	PELICAN . SALESRECORDS1	SALESRECORD_pooja			●●●●●	× ⓘ	N/A
5	pelican.public . test_data_1000	test_data_1000_1612765783096			●●●●●	× ⓘ	N/A
6	pelican.public . test1	test1_1612537662507			●●●●●	× ⓘ	
7	pelican.public . test_1k	test_1k_1612535672005			●●●●●	× ⓘ	

Showing 1 to 10 entries of 36.

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Data Store

SELECT DATASTORE

- BigQuery
- BQ_New**
- BQ_Oracle
- DB2
- db2_testing_1
- Greenplum
- greenplum
- MS_SQL_Server
- MSSQL_Testing
- MSSQL_Testing_1
- Oracle
- oracle
- oracle_19c
- Redshift
- redshift
- redshift1
- Snowflake

BQ_New DATASTORE | Edit Data Store | Delete Data Store

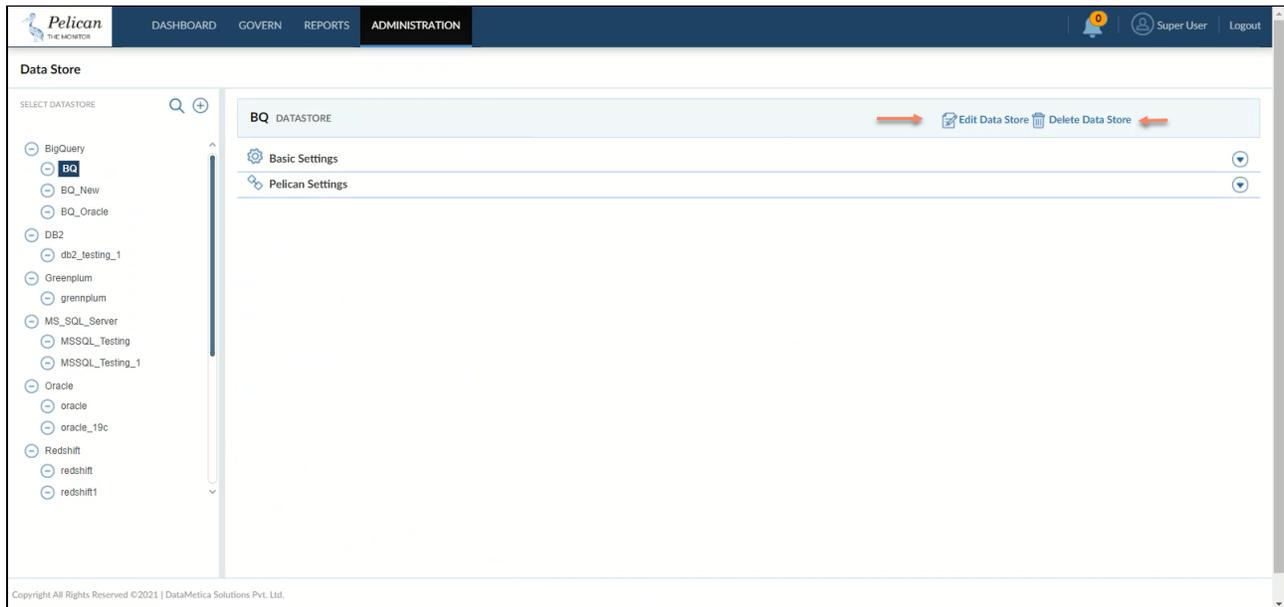
Basic Settings

Pelican Settings

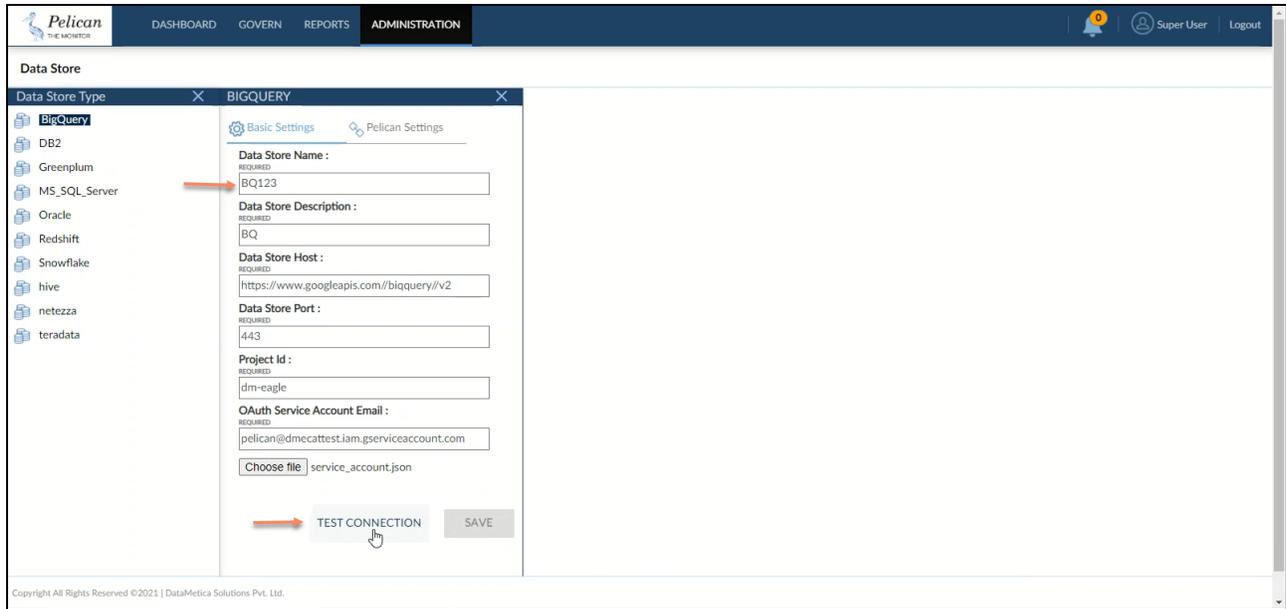
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Additionally, you can edit or delete existing data stores as per requirement.

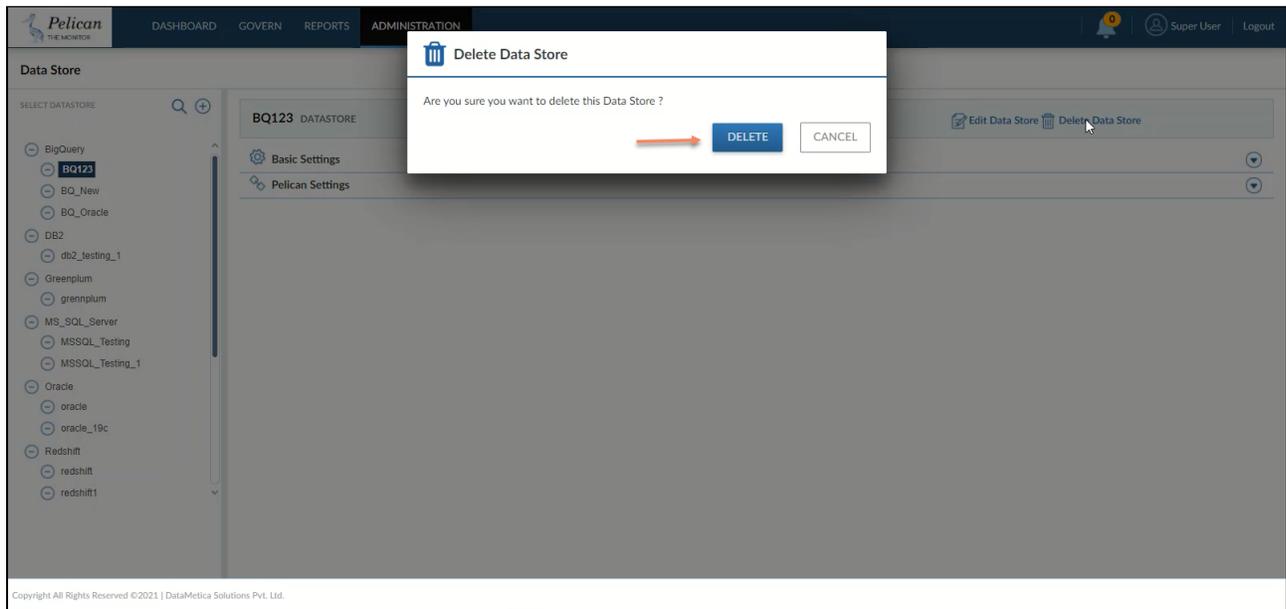
If you find the data entered is wrong or wanted to update some fields, just click on the Edit Data Store icon.



Edit the information of the desired field, upload the `service_account.json` file and click on the **Test Connection** button. If the connection is correct then the message will pop up as **Verified** in green color. Once the connection is verified, the **Save** button will be enabled.

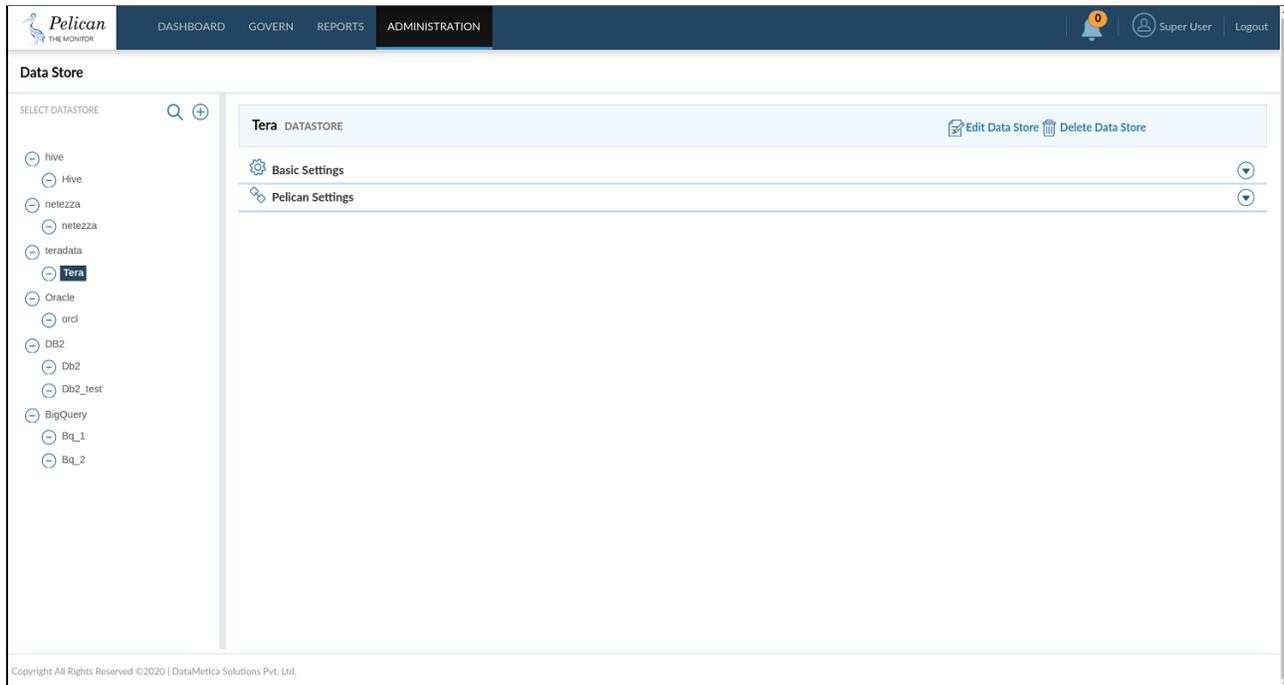


If you want to delete the data store, click on the **Delete Data Store** button. The confirmation message will pop up, if you are sure that you want to delete the data store, click on **Delete**.



6.11. Edit existing database

You can edit an existing data store by selecting the required data store. Click the Edit Data Store icon and make required changes to the settings, then after you verify the connection click SAVE. The system pop-ups successful notification.



6.12. Deleting existing database

Select the data store you want to delete and click the Delete Data Store icon. The system displays a confirmation dialog box to ensure the deletion of the data store so click DELETE.

The screenshot displays the 'Pelican THE MONITOR' interface. The top navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The user is logged in as 'Super User'. The main content area is titled 'Data Store' and shows a list of data stores on the left, with 'Hive' selected. The right pane shows settings for 'Hive DATASTORE', including Basic, Security, JDBC, Metadata, Report, and Pelican Settings. A modal dialog titled 'Delete Data Store' is open, asking 'Are you sure you want to delete this Data Store?' with 'DELETE' and 'CANCEL' buttons.

Pelican THE MONITOR

DASHBOARD GOVERN REPORTS ADMINISTRATION

0 Super User Logout

Data Store

SELECT DATASTORE

- hive
- Hive**
- netezza
- netezza
- teradata
- Tera
- Oracle
- orcl
- DB2
- Db2
- Db2_test
- BigQuery
- Bq_1
- Bq_2

Hive DATASTORE

- Basic Settings
- Security Settings
- JDBC Settings
- Metadata Settings
- Report Settings
- Pelican Settings

Edit Data Store Delete Data Store

DELETE CANCEL

Are you sure you want to delete this Data Store ?

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7. Validation Configuration

After the source and destination data store is created, the next step is validation configuration. Validation configuration allows you to select tables (source and destination) from the respective data stores and map them.

Validation configuration searches the table with similar column name and data type as in the source Datastore. The application provides various filters to search the desired data store, reference database, destination database, reference schema and destination schema. Additionally, the Pelican facilitates the following approximate mapping methods which allows you to map the tables based on their names and patterns:

- **Phonetic Matching:** A phonetic matching is an algorithm for **matching of words by their pronunciation**.

For example, the words Principal and Principle are phonetically matching words. Means, table names (source and destination) Principal and Principle will be considered for mapping.

- **Approximate Matching:** Approximate matching is based on Levenshtein distance. It is a metric for measuring the difference between two words. The Levenshtein distance between two words is the minimum number of single-character edits (insertions, deletions or substitutions) required to change one word into the other. Levenshtein distance may also be referred to as edit distance. The maximum allowed edit distance is 2 words.

For example, the Levenshtein distance between "kitten" and "sitting" is 3, since the following three edits change one into the other, and there is no way to do it with fewer than three edits:

1. kitten → sitten (substitution of "s" for "k") → distance is 1.
2. sitten → sittin (substitution of "i" for "e") → distance is 1.
3. sittin → sitting (insertion of "g" at the end) → distance is 1.

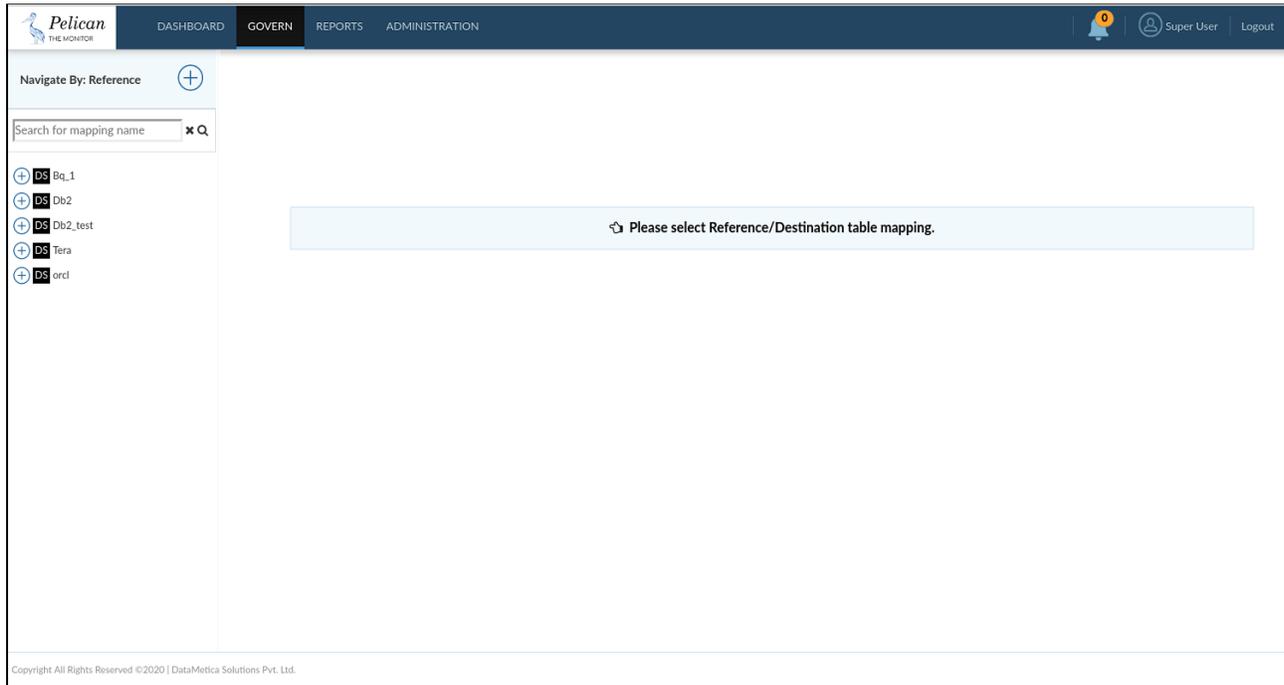
4. Employe → Employee (insertion of "e" at the end) → distance is 1.
5. Employ → Employee (insertion of "ee" at the end) → distance is 2.

The above-mentioned table pair (source and destination) is considered for the mapping as the Levenshtein distance between these table pairs is either 1 or 2.

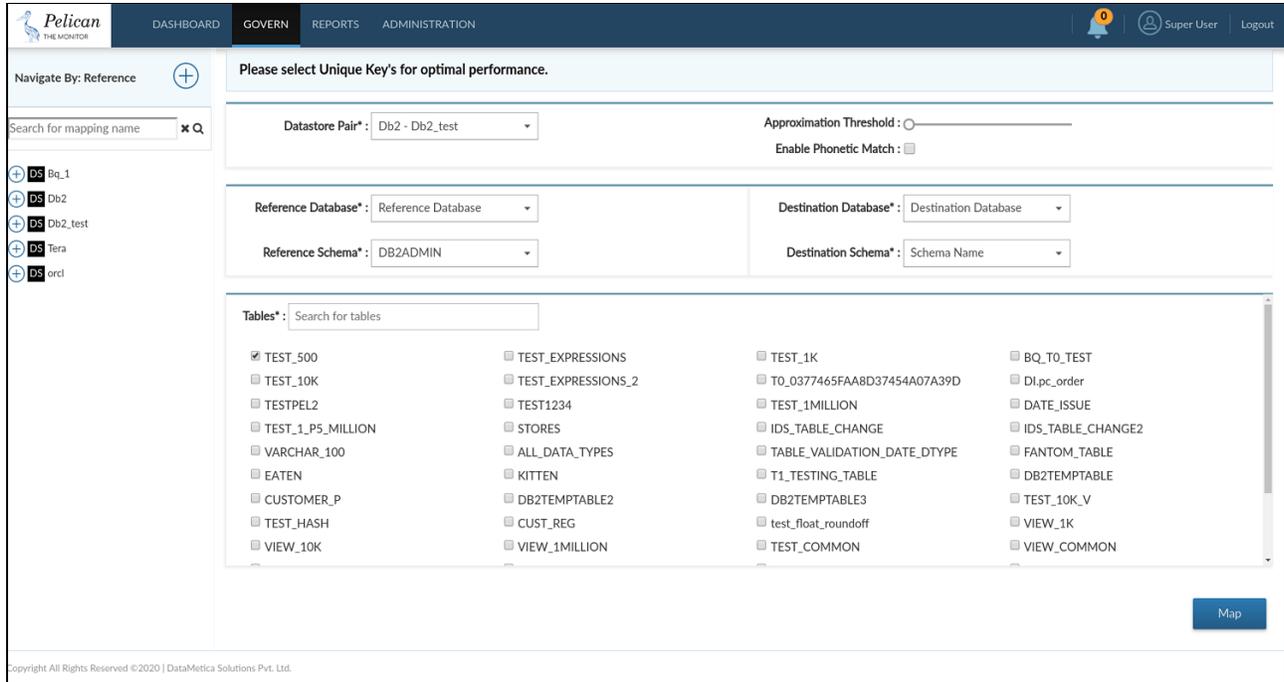
7.1. Table Validation

To validate tables between source and destination data store.

1. Go to **Govern** > **Validation Configuration**. Click create new mapping icon



2. Click on create new mapping icon.



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3. Select the following information.

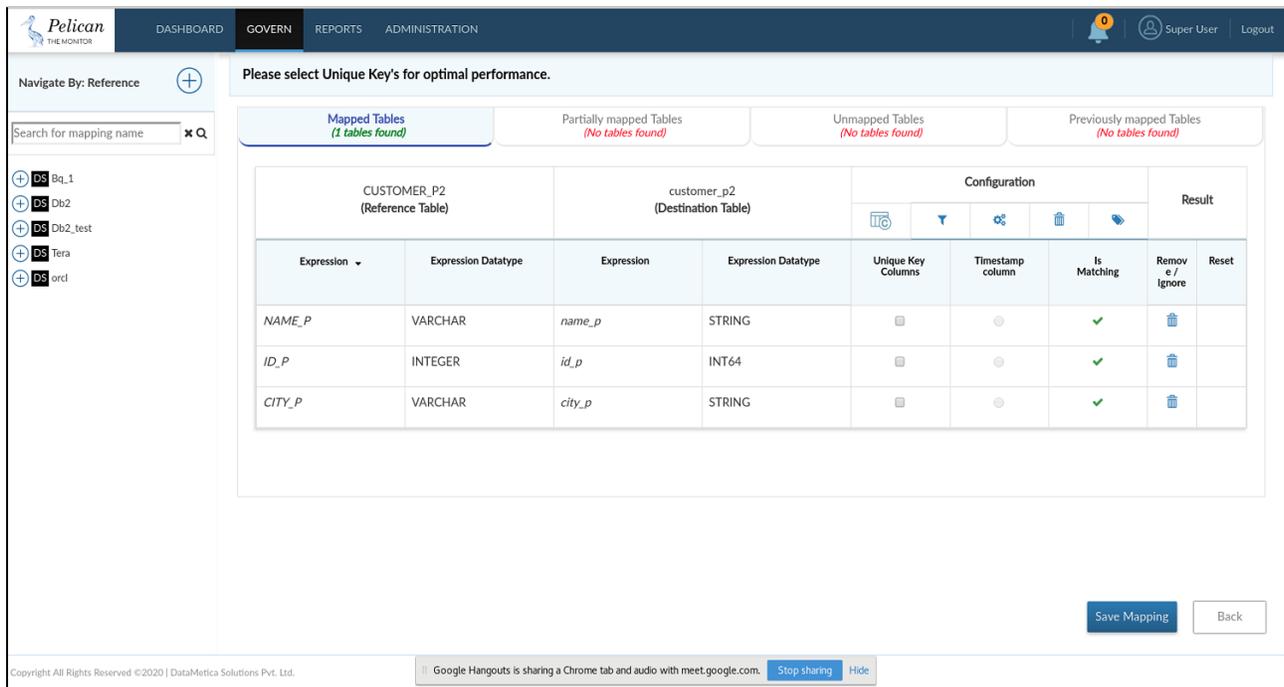
- a Select **Datastore Pair** from the drop-down list. This list displays all the data stores configured in the system.
- b Select **Reference Database** from the drop-down list. This list displays all the databases of the corresponding source data store.
- c Select **Destination Database** from the drop-down list. This list displays all the databases of the corresponding destination data store.
- d Select tables in the table section.

This section displays all the tables of the selected reference database. You can select any number of tables. While mapping, the application searches the same table name in the destination database. Further it also searches similar column names and data types as in source Datastore. You can use the approximation matching parameters to search tables, columns, and data types of similar patterns as in the source data store.

- e Click **Map**.

Note: After selecting the reference and destination database, you can also select the Schema from the Reference Schema and Destination Schema drop-down lists. Here you can select only one schema from both sides. While mapping, the application searches all the tables, columns, and data types as in the source data store's schema.

4. After you click on Map, the application displays the mapping result in four sections as shown below.



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- a **Mapped Tables:** This tab contains the table/s where every column of source table/s matches with the target table/s.
- b **Partially Mapped Tables:** This tab contains the table/s where few columns of a source table/s match with the target table/s.
- c **Unmapped Tables:** This tab contains the table/s where none of the columns of the source table matches with the target table/s.
- d **Previously Mapped Tables:** This tab shows the previously mapped tables.

5. Click the respective tab (section) to see the results.
6. The user can perform following operations on the result page:
 - Show Column
 - Edit Configuration
 - Edit Column
 - Edit Expression
 - Edit Data Type
 - Add New Columns
 - Delete table and column
 - Override Unmapped Columns

7.1.1. View columns of mapped, partially mapped, and previously mapped tables

To view columns of mapped, partially mapped, and previously mapped tables,

first open the respective section and then click the **Show Column**  icon.

The application displays the list columns of the reference and destination table as shown below.


DASHBOARD
GOVERN
REPORTS
ADMINISTRATION



Logout

Navigate By: Reference +

Search for mapping name x Q

 Bq_1
 Db2
 Db2.test
 Tera
 orcl

Please select Unique Key's for optimal performance.

Mapped Tables
(1 tables found)
Partially mapped Tables
(No tables found)
Unmapped Tables
(No tables found)
Previously mapped Tables
(No tables found)

CUSTOMER_P2 (Reference Table)		customer_p2 (Destination Table)		Configuration			Result	
Expression	Expression Datatype	Expression	Expression Datatype	Unique Key Columns	Timestamp column	Is Matching	Remove / Ignore	Reset
NAME_P	VARCHAR	name_p	STRING	<input type="checkbox"/>	<input type="radio"/>	✓		
ID_P	INTEGER	id_p	INT64	<input type="checkbox"/>	<input type="radio"/>	✓		
CITY_P	VARCHAR	city_p	STRING	<input type="checkbox"/>	<input type="radio"/>	✓		

Save Mapping
Back

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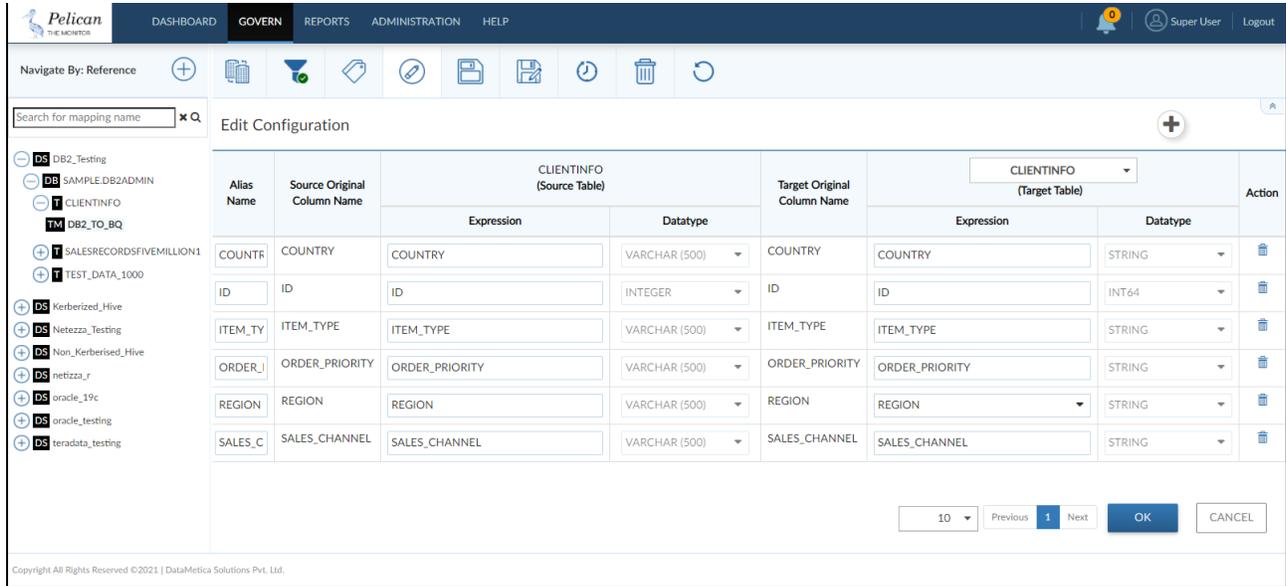
7.1.2. Edit the existing configuration

How to edit an existing column, expression, datatype, and add new columns?

This functionality allows you to edit existing columns, expression, data type, and add new columns as per the business requirement.

To edit the existing configuration:

Click the **Edit Configuration**  icon on the screen. The application displays the Edit Configuration pop-up window as shown below.



Edit Configuration

Alias Name	Source Original Column Name	CLIENTINFO (Source Table)		Target Original Column Name	CLIENTINFO (Target Table)		Action
		Expression	Datatype		Expression	Datatype	
COUNTR	COUNTRY	COUNTRY	VARCHAR (500)	COUNTRY	COUNTRY	STRING	
ID	ID	ID	INTEGER	ID	ID	INT64	
ITEM_TY	ITEM_TYPE	ITEM_TYPE	VARCHAR (500)	ITEM_TYPE	ITEM_TYPE	STRING	
ORDER_I	ORDER_PRIORITY	ORDER_PRIORITY	VARCHAR (500)	ORDER_PRIORITY	ORDER_PRIORITY	STRING	
REGION	REGION	REGION	VARCHAR (500)	REGION	REGION	STRING	
SALES_C	SALES_CHANNEL	SALES_CHANNEL	VARCHAR (500)	SALES_CHANNEL	SALES_CHANNEL	STRING	

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In the Edit Configuration window, you can edit existing columns, existing expressions, existing data type and add new columns.

- **Edit existing column name**

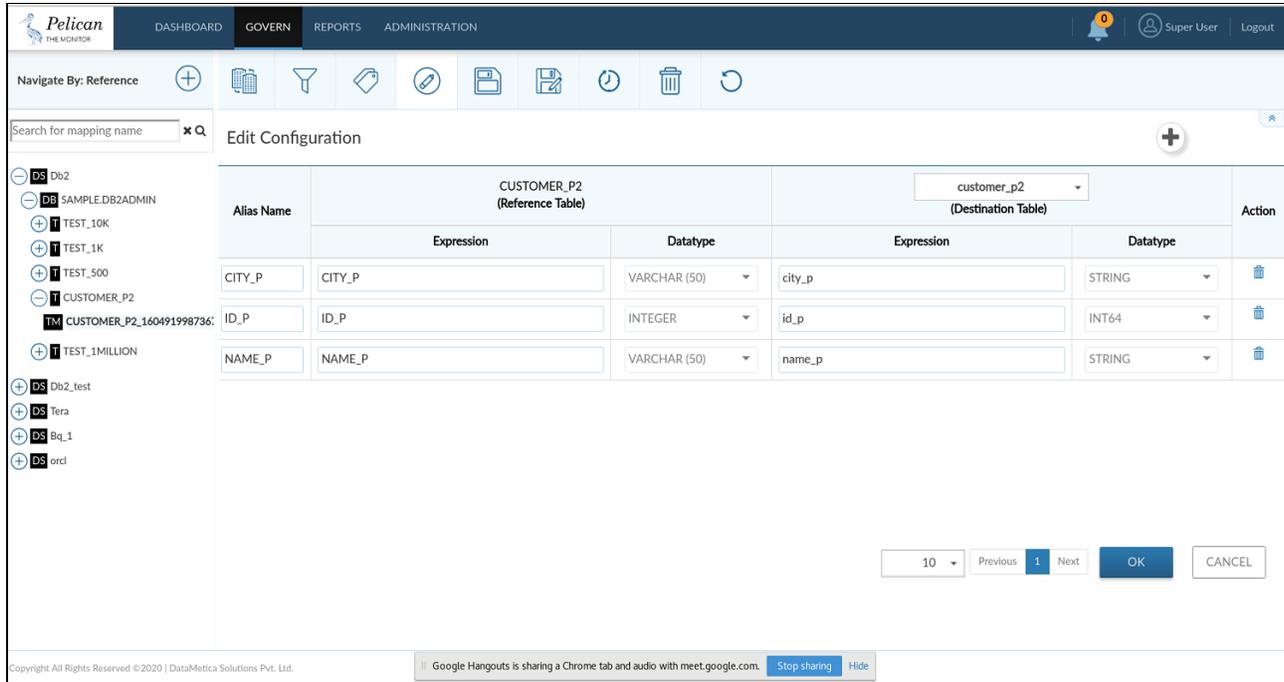
Pelican allows the user to edit the existing column name (Alias Name) to make it uniform on both sides (Reference and Destination).

For example:

Suppose, two columns, namely, **order_name** and **ordername** exist in the reference and destination tables respectively. Both the columns display the order name hence logically they are the same. So, instead of having two different column names you can edit it to either **order_name** or **ordername** as an alias name.

To edit existing column name:

Enter the desired column name in the **Alias Name** field of the respective column and click **OK**.



the changes made in the Edit Configuration screen will be saved only in Pelican UI and not in the original database.

- **Edit existing expression**

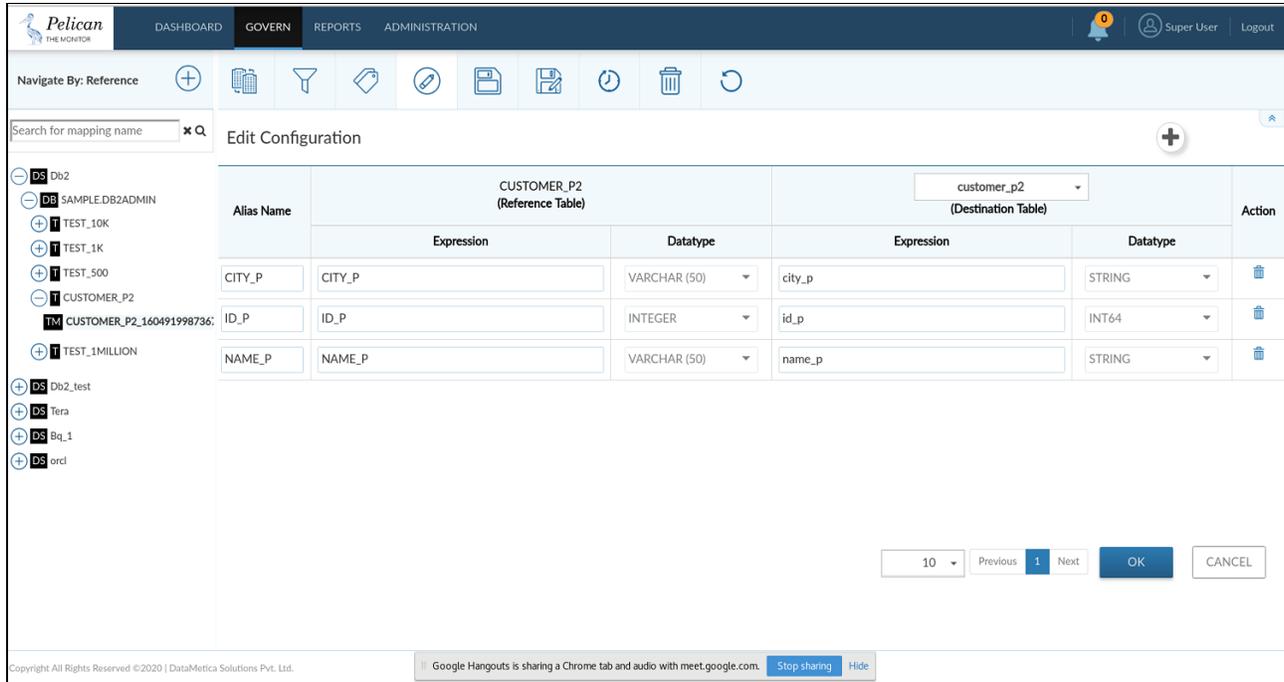
After mapping, the expressions are automatically created. The expressions are created based on the datatype of the respective column. However, the user can edit these existing expressions as per the requirement.

For example,

Suppose the **date** column exists on the both sides (Reference and Destination tables), the data types of these columns are **DD:MM: YYYY HH:MM: SS** and **DD:MM: YYYY** respectively. the **HH:MM: SS** is missing in the destination table. So, using edit expression, you can match the mismatched expression.

To edit the existing expression:

Click the desired expression row, edit the expression and click **OK**.



Edit existing data type

The user can edit the existing data type of any column in the reference and destination table. Suppose there is a column that exists on the both sides (Reference and Destination tables), but the data type of these columns is **Varchar** and **String** respectively. Logically these two data types are similar in nature. Hence, instead of two data types, the user can change it to either **String** or **Varchar**.

To edit the existing data type:

Select the new data type from the **Datatype** drop-down list and click **OK**.

Pelican THE MONITOR

DASHBOARD GOVERN REPORTS ADMINISTRATION

Super User Logout

Navigate By: Reference

Search for mapping name

Edit Configuration

Alias Name	CUSTOMER_P2 (Reference Table)		customer_p2 (Destination Table)		Action
	Expression		Expression	Datatype	
CITY_P	cast(CITY_P as VARCHAR (100))		city_p	STRING	
ID_P	ID_P	INTEGER	id_p	INT64	
NAME_P	NAME_P	VARCHAR (50)	name_p	STRING	

10 Previous 1 Next OK CANCEL

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Add new column

Pelican allows the user to add new columns as per the business requirement, the user can add any number of columns.

Pelican THE MONITOR | DASHBOARD | GOVERN | REPORTS | ADMINISTRATION | Super User | Logout

Navigate By: Reference

Search for mapping name

Edit Configuration

customer_p2 (Destination Table)

Alias Name	CUSTOMER_P2 (Reference Table)		customer_p2 (Destination Table)		Action
	Expression	Datatype	Expression	Datatype	
CITY_P	cast(CITY_P as VARCHAR (100))	VARCHAR (50)	city_p	STRING	
ID_P	ID_P	INTEGER	id_p	INT64	
NAME_P	NAME_P	VARCHAR (50)	name_p	STRING	

10 | Previous | 1 | Next | OK | CANCEL

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2. The application adds the new column as shown below.

Pelican THE MONITOR | DASHBOARD | GOVERN | REPORTS | ADMINISTRATION | Super User | Logout

Navigate By: Reference

Search for mapping name

Edit Configuration

customer_p2 (Destination Table)

Alias Name	CUSTOMER_P2 (Reference Table)		customer_p2 (Destination Table)		Action
	Expression	Datatype	Expression	Datatype	
NEW_CITY	CONCAT(CITY_P, 'INDIA')	varchar(50)	CONCAT(CITY_P, 'INDIA')	STRING	
CITY_P	cast(CITY_P as VARCHAR (100))	VARCHAR (50)	city_p	STRING	
ID_P	ID_P	INTEGER	id_p	INT64	
NAME_P	NAME_P	VARCHAR (50)	name_p	STRING	

10 | Previous | 1 | Next | OK | CANCEL

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3. Enter column name (Alias Name).

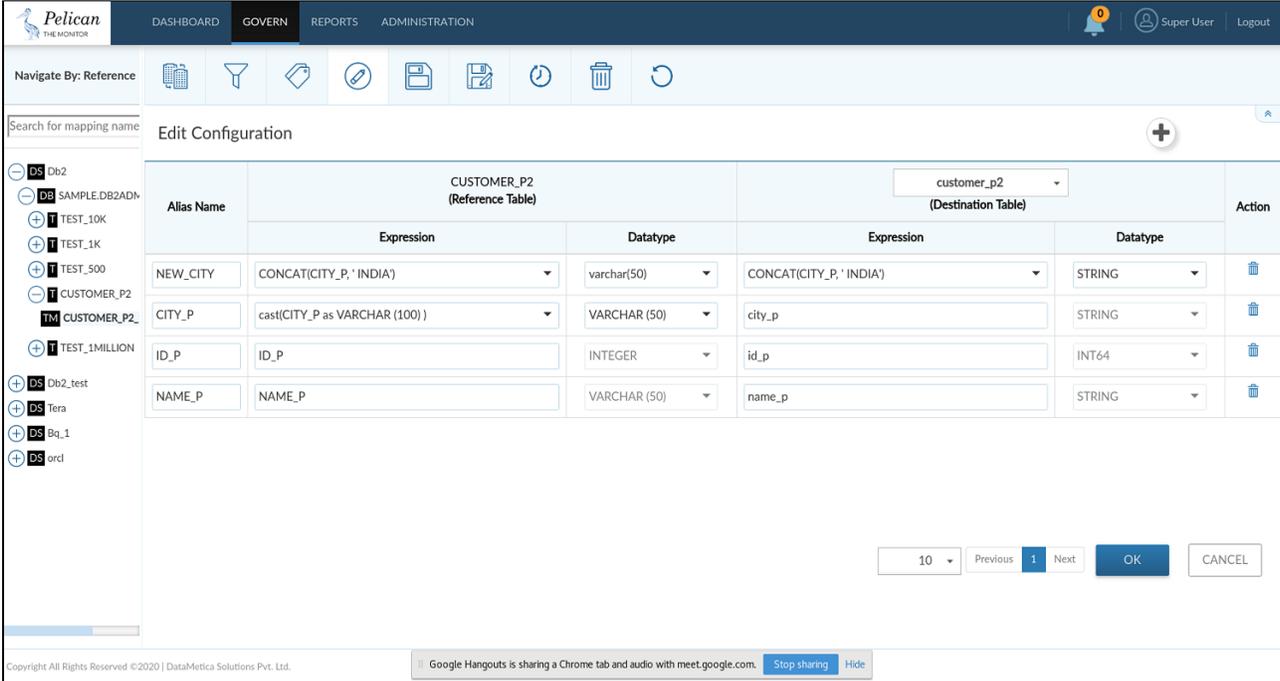
4. Enter expression, datatype on the both sides (Reference and Destination tables) and click Save to save the newly added column.

Delete Tables

The user can delete tables from the respective sections if they are not required. Users can delete the mapped, partially mapped, unmapped and previously mapped table sections. However, the deleted tables will be removed only from the Pelican UI and not from the original database.

To delete a table:

1. Click Delete Table  icon as shown below.



The screenshot shows the 'Edit Configuration' interface in the Pelican UI. It features a table with the following structure:

Alias Name	CUSTOMER_P2 (Reference Table)		customer_p2 (Destination Table)		Action
	Expression	Datatype	Expression	Datatype	
NEW_CITY	CONCAT(CITY_P, 'INDIA')	varchar(50)	CONCAT(CITY_P, 'INDIA')	STRING	
CITY_P	cast(CITY_P as VARCHAR(100))	VARCHAR(50)	city_p	STRING	
ID_P	ID_P	INTEGER	id_p	INT64	
NAME_P	NAME_P	VARCHAR(50)	name_p	STRING	

At the bottom of the table, there are navigation controls: a dropdown menu set to '10', 'Previous', '1', 'Next', 'OK', and 'CANCEL' buttons.

Delete columns

The user can delete the existing columns of the reference and destination table if they are not required. Users can delete columns from the mapped, partially mapped, unmapped and previously mapped table sections as well. However, the deleted columns will be removed only from the Pelican UI and not from the original database.

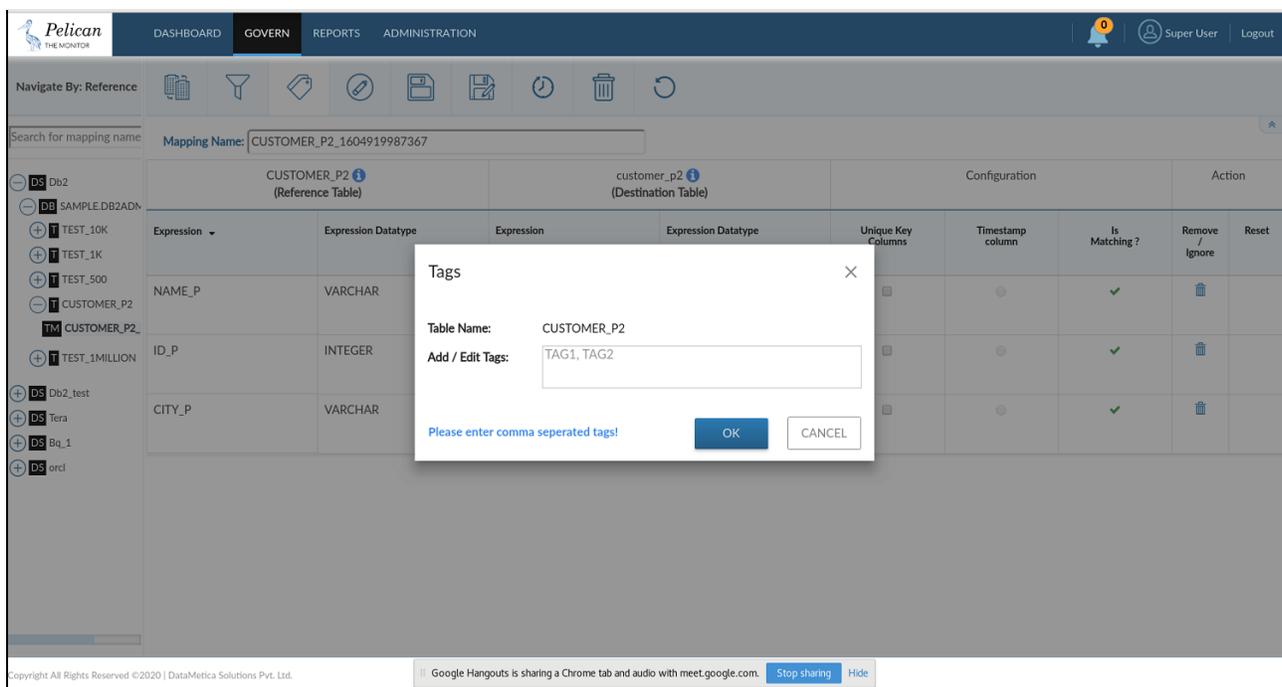
7.1.3. Add Tags

Tagging is a feature associated with table mappings. Now a user can set one or more tags in a table mapping. For example, a user can create a table mapping M1 with multiple tags T1 and T2.

Number of tags in a mapping could be zero. Same tags can be used with multiple mappings. Users can edit tags any number of times from the Edit Mapping page.

Steps to Add tags

- 1) Create new mapping (Administration → Govern → Validation Configuration → + sign)
- 2) Select databases and tables to map and click to **MAP**.
- 3) Add new Tags from the new mapping page by clicking 5th option in Configuration.

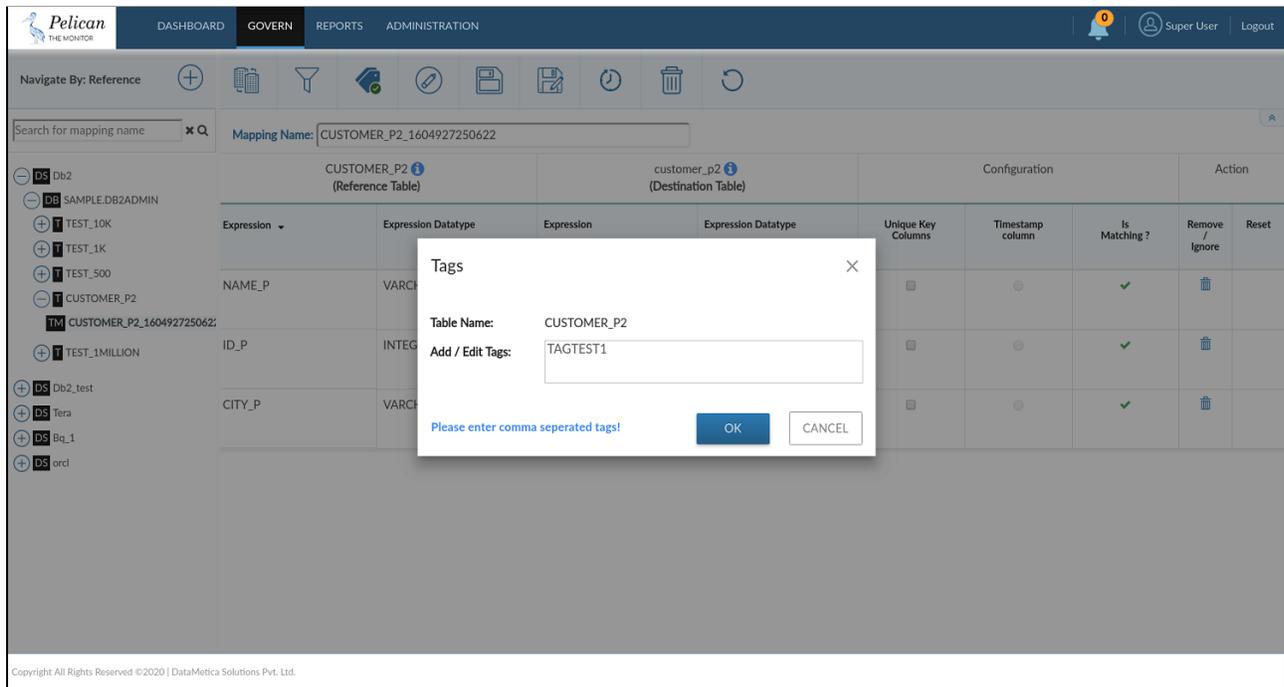


The screenshot shows the Datametica web application interface. The top navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The user is logged in as 'Super User'. The main area displays a table mapping configuration for 'CUSTOMER_P2_1604919987367'. The table has columns for 'Expression', 'Expression Datatype', 'Expression', 'Expression Datatype', 'Unique Key Columns', 'Timestamp column', 'Is Matching?', 'Remove / Ignore', and 'Reset'. A 'Tags' dialog box is open in the foreground, showing 'Table Name: CUSTOMER_P2' and 'Add / Edit Tags: TAG1, TAG2'. The dialog also includes a message 'Please enter comma separated tags!' and 'OK' and 'CANCEL' buttons.

- 4) Save the new mapping.

Steps to Edit tags

- 1) Open mapping (Administration → Govern → Validation Configuration → Select data store and mapping from left)
- 2) Click on the add tags option  from the menu.
- 3) Update the tags in the pop-up. Already saved Tags will display in pop-up. Click **OK**.
- 4) Click on Save Mapping.



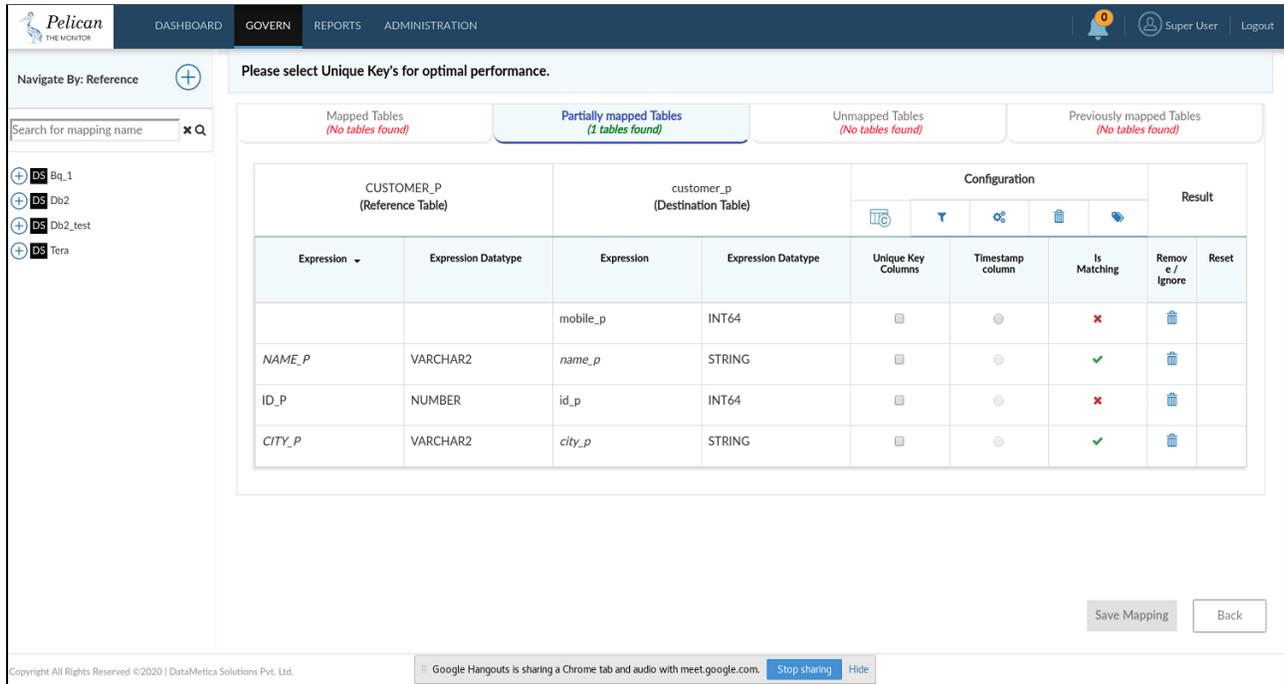
7.1.4. Override unmapped columns

Pelican allows the user to override the unmapped column. For example,

Suppose column **stud_id** and **id** exist on the both sides (Reference and Destination tables), logically these two columns are identical as both represent student identification numbers in the respective databases. However, while mapping, the application won't map **stud_id** and **id** due to variation in name and mark them under the unmapped columns section. In such cases, the user can override the unmapped columns and into mapped columns.

To override unmapped columns:

1. Locate unmapped column row on the screen and click the  symbol as shown below.



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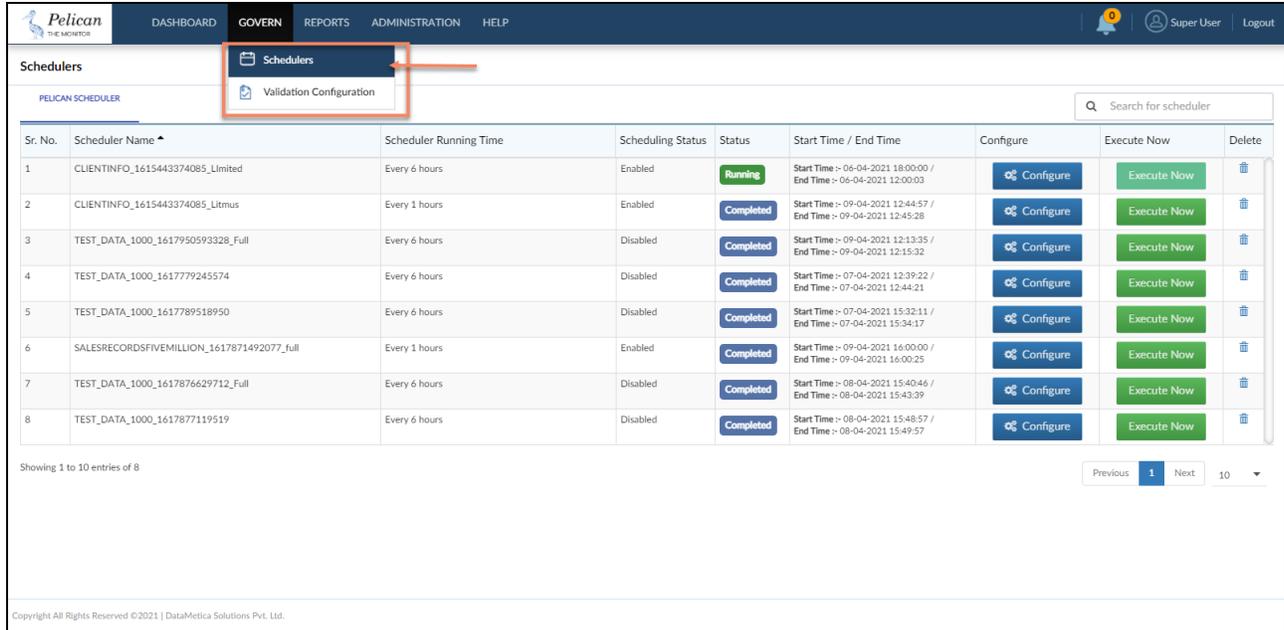
2. Click the **Save Mapping** button to save the changes.

8. Scheduler Configuration

The Scheduler allows the user to execute processes at a regular time interval. In Pelican, the user can create a scheduler for a saved mapping; so that, after a specific time period the scheduler executes the process and it validates the source table with destination tables.

8.1. Modes in Scheduler Configuration

The user can execute processes at a regular time interval. In Pelican, the user can create a scheduler for a saved mapping. The scheduler executes the process and validates the source table with destination tables. Once you complete the table mapping process, the application saves the respective mapping in the Pelican and then you can configure the scheduler against it. In the Scheduler you can set two different modes Litmus and Full.



Schedulers

PELICAN SCHEDULER

Search for scheduler

Sr. No.	Scheduler Name ^	Scheduler Running Time	Scheduling Status	Status	Start Time / End Time	Configure	Execute Now	Delete
1	CLIENTINFO_1615443374085_Limited	Every 6 hours	Enabled	Running	Start Time :- 06-04-2021 18:00:00 / End Time :- 06-04-2021 12:00:03	Configure	Execute Now	
2	CLIENTINFO_1615443374085_Litmus	Every 1 hours	Enabled	Completed	Start Time :- 09-04-2021 12:44:57 / End Time :- 09-04-2021 12:45:28	Configure	Execute Now	
3	TEST_DATA_1000_1617950593328_Full	Every 6 hours	Disabled	Completed	Start Time :- 09-04-2021 12:13:35 / End Time :- 09-04-2021 12:15:32	Configure	Execute Now	
4	TEST_DATA_1000_1617779245574	Every 6 hours	Disabled	Completed	Start Time :- 07-04-2021 12:39:22 / End Time :- 07-04-2021 12:44:21	Configure	Execute Now	
5	TEST_DATA_1000_1617789518950	Every 6 hours	Disabled	Completed	Start Time :- 07-04-2021 15:32:11 / End Time :- 07-04-2021 15:34:17	Configure	Execute Now	
6	SALESRECORDSFIVEMILLION_1617871492077_full	Every 1 hours	Enabled	Completed	Start Time :- 09-04-2021 16:00:00 / End Time :- 09-04-2021 16:00:25	Configure	Execute Now	
7	TEST_DATA_1000_1617876629712_Full	Every 6 hours	Disabled	Completed	Start Time :- 08-04-2021 15:40:46 / End Time :- 08-04-2021 15:43:39	Configure	Execute Now	
8	TEST_DATA_1000_1617877119519	Every 6 hours	Disabled	Completed	Start Time :- 08-04-2021 15:48:57 / End Time :- 08-04-2021 15:49:57	Configure	Execute Now	

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8.1.1. LITMUS and FULL for Scheduler Configuration

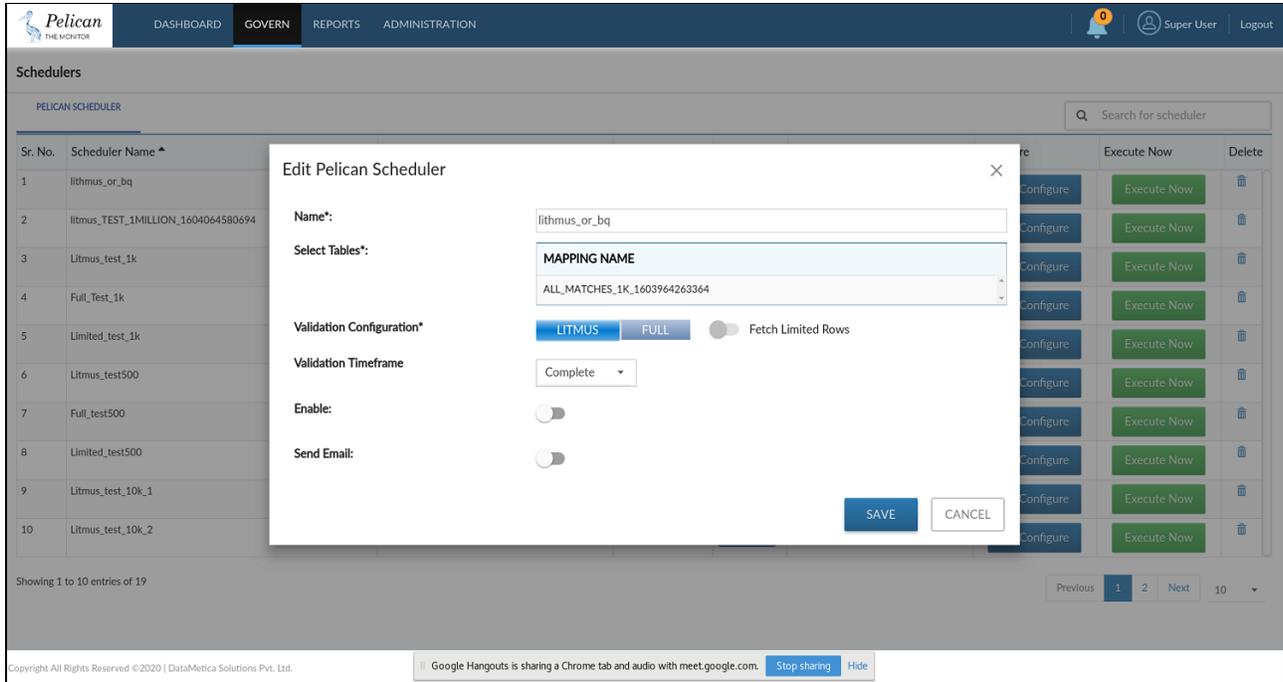
Once you complete the validation mapping process, the application saves the respective mapping in the Pelican UI and it allows you to create and configure the scheduler against it.

LITMUS Scheduler

Litmus supports analysing if the tables at source and target are matching or mismatching. It does not give us the cell level difference.

Steps

1. Navigate **Govern -> Validation Configuration.**



Schedulers

PELICAN SCHEDULER

Search for scheduler

Sr. No.	Scheduler Name	Configure	Execute Now	Delete
1	lithmus_or_bq	Configure	Execute Now	Delete
2	litmus_TEST_1MILLION_1604064580694	Configure	Execute Now	Delete
3	Litmus_test_1k	Configure	Execute Now	Delete
4	Full_Test_1k	Configure	Execute Now	Delete
5	Limited_test_1k	Configure	Execute Now	Delete
6	Litmus_test500	Configure	Execute Now	Delete
7	Full_test500	Configure	Execute Now	Delete
8	Limited_test500	Configure	Execute Now	Delete
9	Litmus_test_10k_1	Configure	Execute Now	Delete
10	Litmus_test_10k_2	Configure	Execute Now	Delete

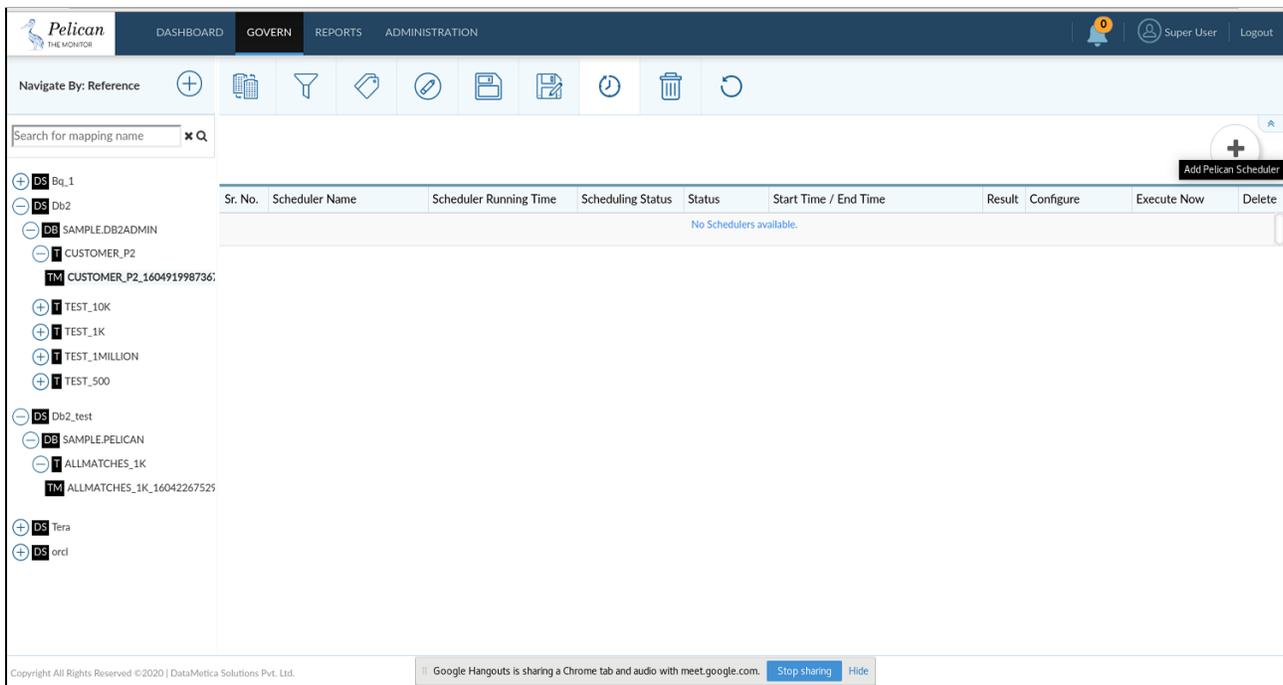
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2. Select Table Mapping from the hierarchy and click **View Scheduler** icon on the toolbar.

3. Click the **Add Pelican Scheduler** icon.



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Super User Logout

Navigate By: Reference

Search for mapping name

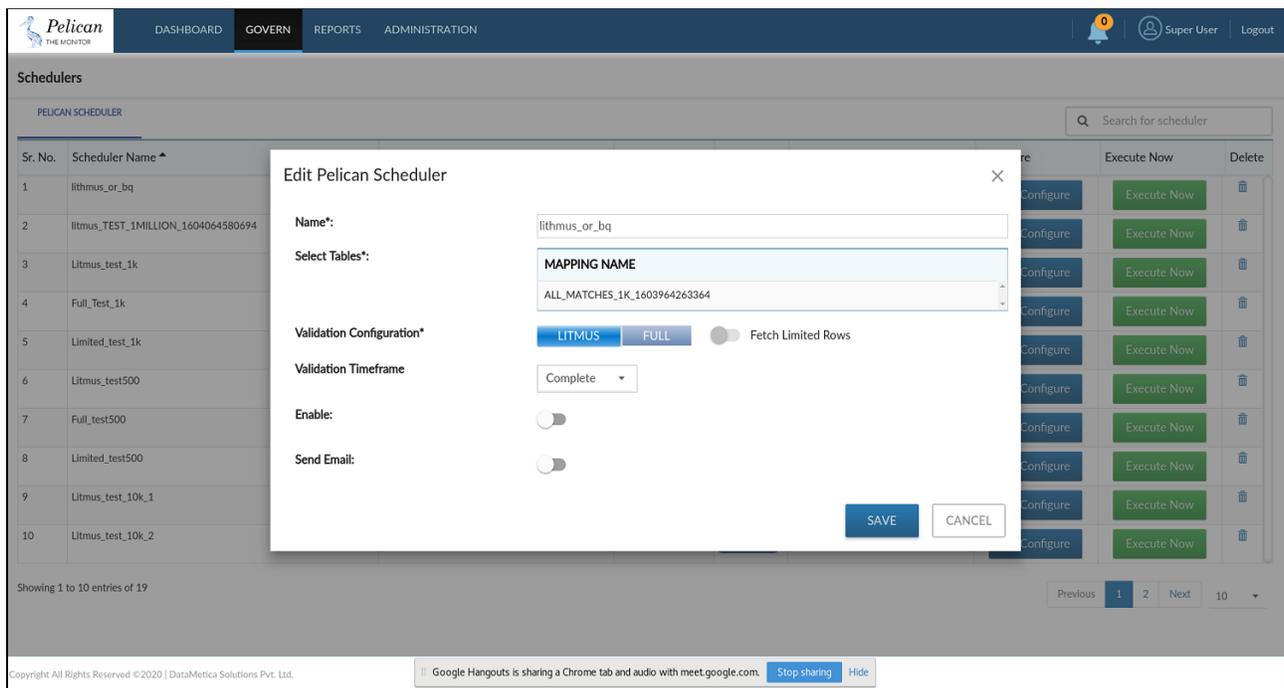
- DS Bq_1
- DS Db2
 - DB SAMPLE.DB2ADMIN
 - CUSTOMER_P2
 - CUSTOMER_P2_160491998736
 - TEST_10K
 - TEST_1K
 - TEST_1MILLION
 - TEST_500
 - DS Db2_test
 - SAMPLE.PELICAN
 - ALLMATCHES_1K
 - ALLMATCHES_1K_16042267525
 - DS Tera
 - orcl

Sr. No.	Scheduler Name	Scheduler Running Time	Scheduling Status	Status	Start Time / End Time	Result	Configure	Execute Now	Delete
No Schedulers available.									

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4. Enter Scheduler Name in the field provided and select Tables.
5. For Validation Configuration either you select LITMUS or FULL as per requirement.
6. Select Validation Time Frame from the drop-down list and then click the Enable toggle button to set Recurrence Pattern.
7. Select Email toggle button and enter email address if user wants reports to be sent for specific scheduler
8. Click **SAVE**.

The newly created scheduler is added to the **Schedulers** screen as shown below.



The screenshot displays the 'Pelican Scheduler' management interface. A modal window titled 'Edit Pelican Scheduler' is open, allowing configuration of a scheduler. The form contains the following fields and options:

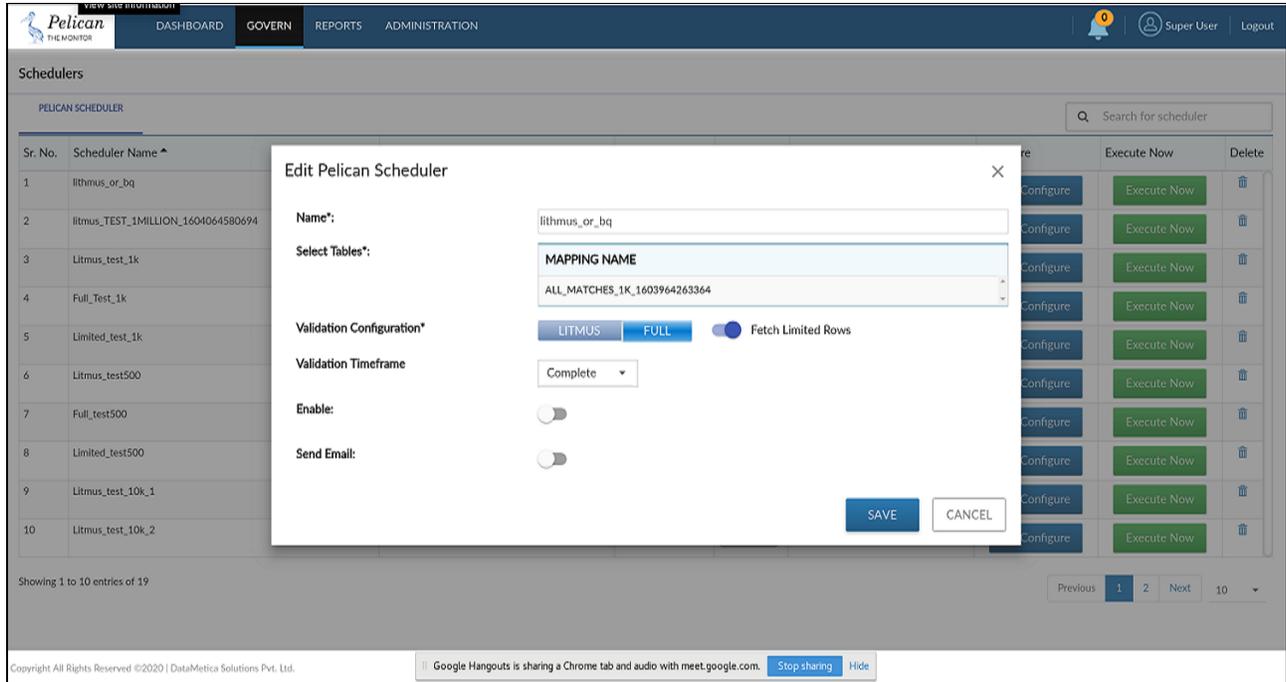
- Name*:** A text input field containing 'lithmus_or_bq'.
- Select Tables*:** A dropdown menu showing 'MAPPING NAME' and 'ALL_MATCHES_1K_1603964263364'.
- Validation Configuration*:** Radio buttons for 'LITMUS' (selected) and 'FULL', along with a 'Fetch Limited Rows' toggle switch.
- Validation Timeframe:** A dropdown menu set to 'Complete'.
- Enable:** A toggle switch that is currently turned off.
- Send Email:** A toggle switch that is currently turned off.

The background interface shows a table of existing schedulers with columns for 'Sr. No.', 'Scheduler Name', and actions like 'Execute Now' and 'Delete'. The footer of the application includes copyright information for DataMetica Solutions Pvt. Ltd. and a Google Hangouts sharing notification.

9. Click **Execute Now** to execute the respective scheduler. The application automatically executes the corresponding scheduler as per the set configurations and validation is done accordingly for the saved mappings.

FULL Scheduler

Full mode provides a page of differences between the source and target that displays the mismatches in the tables if present else sample data from both sides is shown.



The screenshot shows the 'Edit Pelican Scheduler' dialog box. The 'Name' field contains 'lithmus_or_bq'. Under 'Select Tables*', the 'MAPPING NAME' dropdown is open, showing 'ALL_MATCHES_1K_1603964263364'. In the 'Validation Configuration*' section, the 'FULL' button is selected, and the 'Fetch Limited Rows' toggle is turned on. The 'Validation Timeframe' is set to 'Complete'. The 'Enable' and 'Send Email' toggles are turned off. 'SAVE' and 'CANCEL' buttons are at the bottom right of the dialog.

To create FULL mode select FULL from Validation Configuration and then follow steps specified above for LITMUS Scheduler.

Fetch Limited Rows

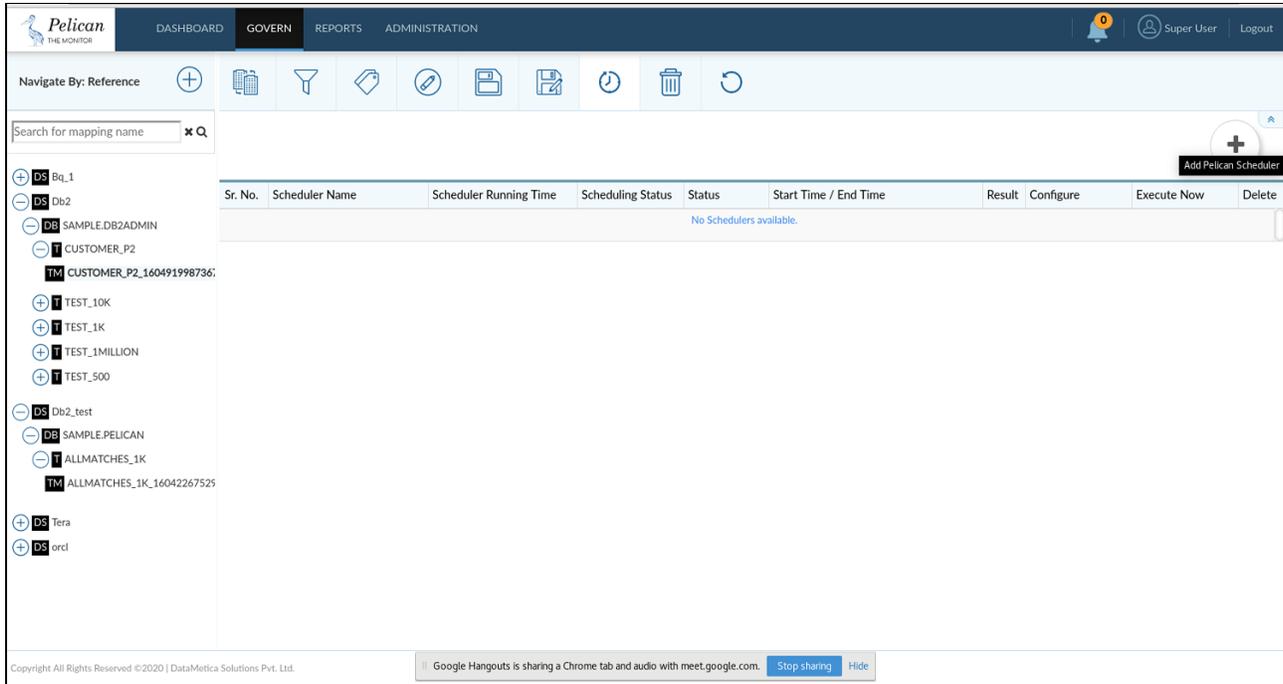
When we select FULL mode with “Fetch Limited Rows” options then the user will get a sample according to the configured number of rows. If the Fetch Limited Rows is not enabled then the user will get complete mismatch.

8.1.2. Configure Pelican Scheduler and enter the recipient information

After selecting Pelican reports from the Pelican Status report screen the user needs to configure the Pelican scheduler and enter the recipient's information.

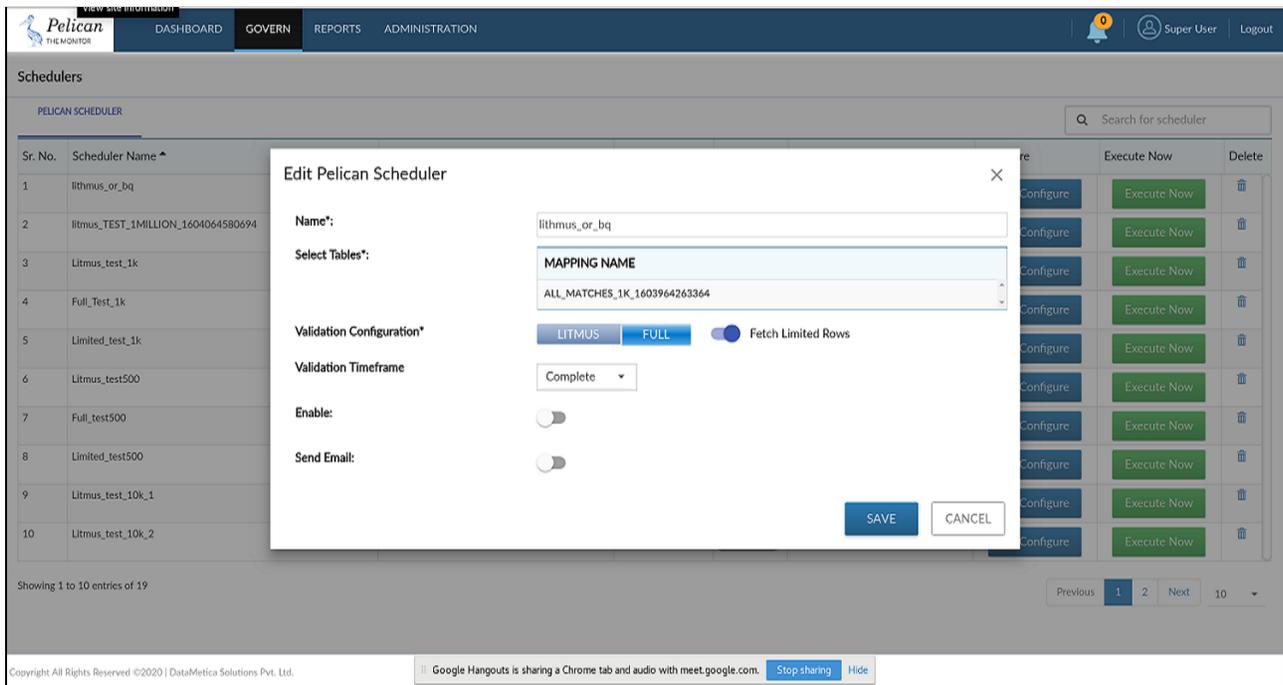
To configure Pelican scheduler and enter recipient information:

1. Go to the Administration menu.
2. Select the **Govern** and click **Schedulers**. This displays the Scheduler screen as shown below.



The screenshot shows the 'GOVERN' tab of the Pelican Scheduler interface. A search bar at the top left contains the text 'Search for mapping name'. Below it, a tree view on the left lists various database instances and mappings, including 'Db2', 'SAMPLE.DB2ADMIN', 'CUSTOMER_P2', 'TEST_10K', 'TEST_1K', 'TEST_1MILLION', 'TEST_500', 'Db2_test', 'SAMPLE.PELICAN', 'ALLMATCHES_1K', and 'Tera'. The main table area is currently empty, displaying the message 'No Schedulers available.' The table headers include 'Sr. No.', 'Scheduler Name', 'Scheduler Running Time', 'Scheduling Status', 'Status', 'Start Time / End Time', 'Result', 'Configure', 'Execute Now', and 'Delete'.

3. Select the **Pelican Scheduler** tab and click **Configure**, this displays the **Edit Pelican Scheduler** pop-up window as shown below.



The screenshot shows the 'Schedulers' page with the 'Edit Pelican Scheduler' pop-up window open. The pop-up window contains the following fields and options:

- Name*:** lithmus_or_bq
- Select Tables*:** A dropdown menu showing 'MAPPING NAME' and 'ALL_MATCHES_1K_1603964263364'.
- Validation Configuration*:** Radio buttons for 'LITMUS' and 'FULL' (selected), and a toggle for 'Fetch Limited Rows'.
- Validation Timeframe:** A dropdown menu set to 'Complete'.
- Enable:** A toggle switch that is currently turned off.
- Send Email:** A toggle switch that is currently turned off.

The background shows a list of 10 schedulers with columns for 'Sr. No.', 'Scheduler Name', 'Configure', 'Execute Now', and 'Delete'. The first scheduler is 'lithmus_or_bq'. The interface also includes a search bar for schedulers and pagination controls at the bottom.

4. Click the **Send Email** toggle button, this enables the text field which allows the user to enter the recipients email address.
5. Enter recipients email address in the field provided. Here you can add more than one recipient by using a comma (,).
6. Click **Save** to save the configuration

8

9. Validation Result

After scheduler execution, the application automatically generates the validation result in the form of a report. The validation result can be viewed in two ways:

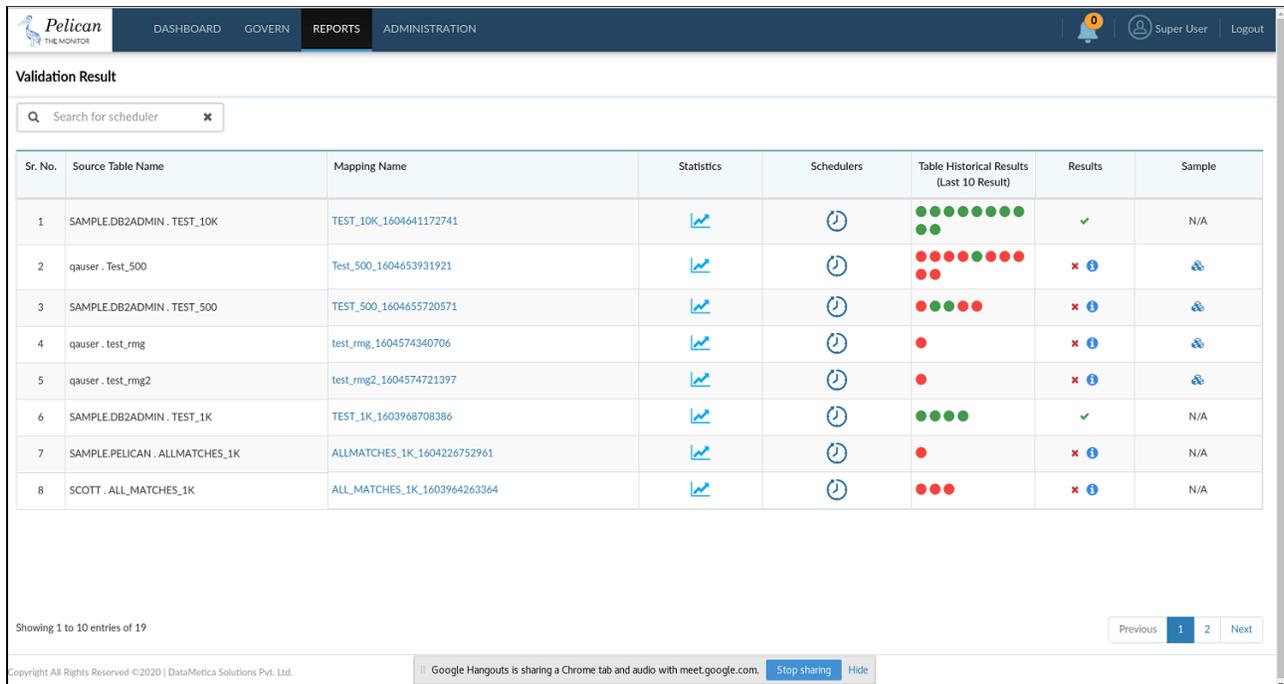
- Common (Validation result for all schedulers): Here the user can view scheduler results for all schedulers that have executed in the system.
- Scheduler Wise: Here the user can view validation results for a specific scheduler against the mapping.

9.1. Results from Report page

Here the application displays the list of all the schedulers along with the validation results.

To view validation result:

Go to **Reports** and click on **Validation Report**. The application displays the Validation Result screen as shown below.



Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SAMPLE.DB2ADMIN . TEST_10K	TEST_10K_1604641172741				✓	N/A
2	qauser . Test_500	Test_500_1604653931921				✗	
3	SAMPLE.DB2ADMIN . TEST_500	TEST_500_1604655720571				✗	
4	qauser . test_rmg	test_rmg_1604574340706				✗	
5	qauser . test_rmg2	test_rmg2_1604574721397				✗	
6	SAMPLE.DB2ADMIN . TEST_1K	TEST_1K_1603968708386				✓	N/A
7	SAMPLE.PELICAN . ALLMATCHES_1K	ALLMATCHES_1K_1604226752961				✗	N/A
8	SCOTT . ALL_MATCHES_1K	ALL_MATCHES_1K_1603964263364				✗	N/A

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The Validation Result screen displays the following information.

1. **Source Table Name** : This column displays the list of source tables for which mapping has been executed in the system.
2. **Mapping Name**: This column displays the mapping which has been executed for the particular table.
3. **Statistics**: This column displays the scheduler history of the respective table mapping.

Click the **View Mapping Historical Results**  icon to view detailed history. This displays the detailed history of the respective scheduler as shown below.

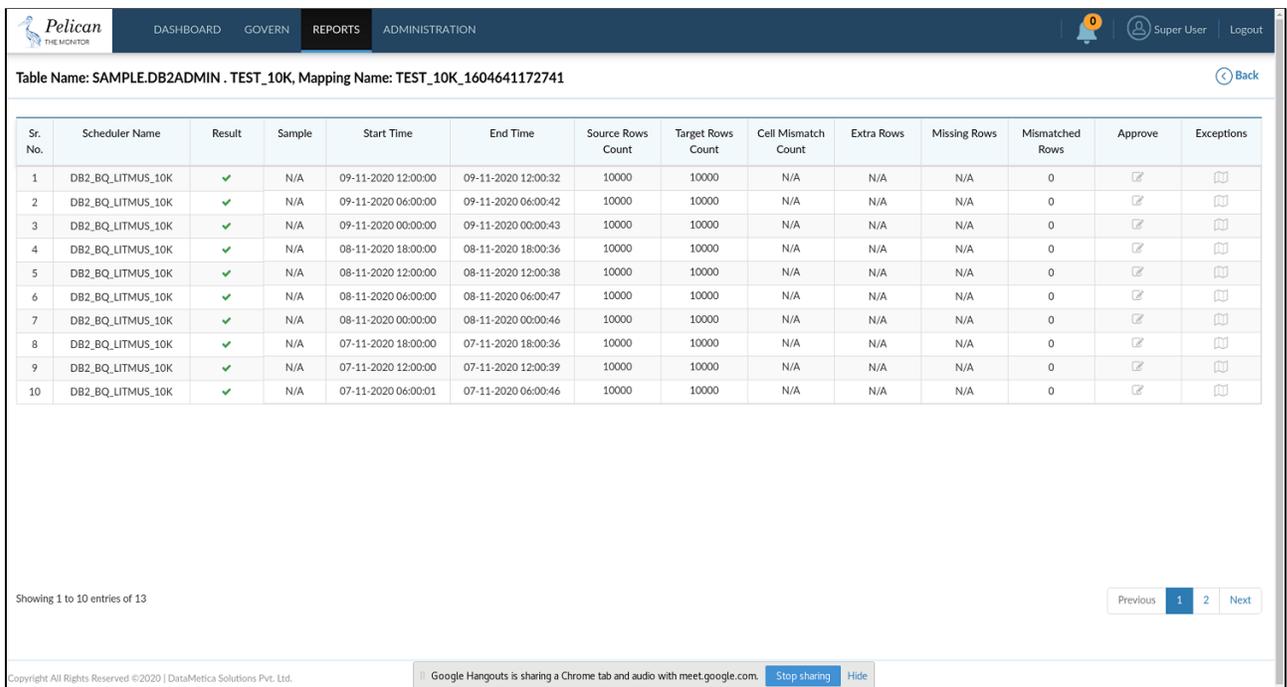


Table Name: SAMPLE.DB2ADMIN . TEST_10K, Mapping Name: TEST_10K_1604641172741

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Rows Count	Target Rows Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	DB2_BQ_LITMUS_10K	✓	N/A	09-11-2020 12:00:00	09-11-2020 12:00:32	10000	10000	N/A	N/A	N/A	0	☑	📄
2	DB2_BQ_LITMUS_10K	✓	N/A	09-11-2020 06:00:00	09-11-2020 06:00:42	10000	10000	N/A	N/A	N/A	0	☑	📄
3	DB2_BQ_LITMUS_10K	✓	N/A	09-11-2020 00:00:00	09-11-2020 00:00:43	10000	10000	N/A	N/A	N/A	0	☑	📄
4	DB2_BQ_LITMUS_10K	✓	N/A	08-11-2020 18:00:00	08-11-2020 18:00:36	10000	10000	N/A	N/A	N/A	0	☑	📄
5	DB2_BQ_LITMUS_10K	✓	N/A	08-11-2020 12:00:00	08-11-2020 12:00:38	10000	10000	N/A	N/A	N/A	0	☑	📄
6	DB2_BQ_LITMUS_10K	✓	N/A	08-11-2020 06:00:00	08-11-2020 06:00:47	10000	10000	N/A	N/A	N/A	0	☑	📄
7	DB2_BQ_LITMUS_10K	✓	N/A	08-11-2020 00:00:00	08-11-2020 00:00:46	10000	10000	N/A	N/A	N/A	0	☑	📄
8	DB2_BQ_LITMUS_10K	✓	N/A	07-11-2020 18:00:00	07-11-2020 18:00:36	10000	10000	N/A	N/A	N/A	0	☑	📄
9	DB2_BQ_LITMUS_10K	✓	N/A	07-11-2020 12:00:00	07-11-2020 12:00:39	10000	10000	N/A	N/A	N/A	0	☑	📄
10	DB2_BQ_LITMUS_10K	✓	N/A	07-11-2020 06:00:01	07-11-2020 06:00:46	10000	10000	N/A	N/A	N/A	0	☑	📄

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3.1. The scheduler history page displays the detailed information of the scheduler, such as:

- Scheduler name
- Result
- Sample
- Start time
- End time
- Source Rows Count
- Target Rows Count
- Cell Mismatch Cout
- Extra Rows Count
- Missing Rows Count
- Total Mismatch RowsCount
- Approve
- Exceptions

Among these following are the some of the major features: -

Approve

- It is a feature to approve a mapping if a mapping fails.
- This feature has been added for the cases where the cause of failure is a known issue and can be considered as an exceptional case.
- As shown below we can approve a mapping by clicking on the icon in the approve column and click save to approve a mapping.

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Litmus_test_10k_2 Back

Switch to Graphs

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Row Count	Target Row Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	Litmus_test_10k_2	✓	N/A	22-10-2020 16:46:32	22-10-2020 16:47:48	10000	10000	N/A	N/A	N/A	0		

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Table Name: qauser . Test_500, Mapping Name: Test_500_1604653931921 Back

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Rows Count	Target Rows Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	TD_FULL	✗		07-11-2020 14:53:36	07-11-2020 14:54:57	500	500	4	N/A	N/A	4		
2	TD_Litmus	✗	N/A	07-11-2020 14:53:01	07-11-2020 14:53:32	500	500	N/A	N/A	N/A	N/A		
3	TD_FULL	✗	N/A	06-11-2020 14:51:07	06-11-2020 19:10:34				N/A	N/A	4		
4	TD_FULL	✗	N/A	06-11-2020 18:25:15					N/A	N/A	N/A		
5	TD_FULL	✗		06-11-2020 14:54:59					N/A	N/A	4		
6	TD_FULL	✓		06-11-2020 14:53:54					N/A	N/A	0		
7	TD_Full_Limited	✗		06-11-2020 14:47:16					0	0	4		
				06-11-2020 14:44:43					N/A	N/A	4		
			N/A	06-11-2020 14:43:49					N/A	N/A	N/A		

Mapping Name: Test_500_1604653931921

Approval Reason:

SAVE

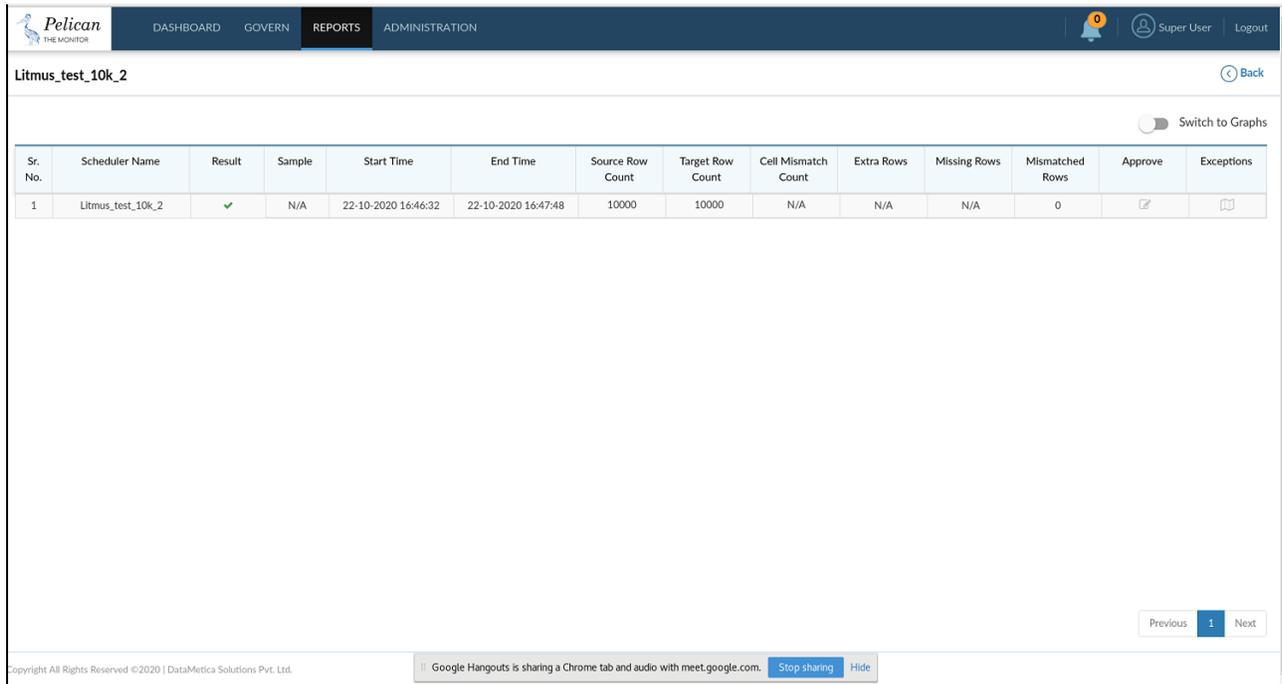
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- If the result is either approved or passed, the icon to open approve a mapping modal will be disabled.

Exceptions

- If a scheduler failed due to an exception, then log will display its exception stack trace. One can click on the logs icon to exception view logs.



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Litmus_test_10k_2 [Back](#)

Switch to Graphs

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Row Count	Target Row Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	Litmus_test_10k_2	✓	N/A	22-10-2020 16:46:32	22-10-2020 16:47:48	10000	10000	N/A	N/A	N/A	0		

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Mismatched Rows	Approve	Exceptions

- Once we click the icon on the logs column, the new pop-up window will open for the logs.

Table Name: qauser . Test_500, Mapping Name: Test_500_1604653931921

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Rows Count	Target Rows Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	TD_FULL	✗		07-11-2020 14:53:36	07-11-2020 14:54:57	500	500	4	N/A	N/A	4		
2	TD_Litmus	✗	N/A	07-11-2020 14:53:01	07-11-2020 14:53:32	500	500	N/A	N/A	N/A	N/A		
3	TD_FULL	✗	N/A								4		
4	TD_FULL	✗	N/A								N/A		
5	TD_FULL	✗									4		
6	TD_FULL	✓									0		
7	TD_Full_Limited	✗	N/A								4		

Scheduler Name: TD_FULL

```

java.sql.SQLException: Timeout after 600001ms of waiting for a connection.
    at com.zaxxer.hikari.pool.HikariPool.getConnection(HikariPool.java:208)
    at com.zaxxer.hikari.HikariDataSource.getConnection(HikariDataSource.java:91)
    at
    com.datametica.bigsuite.web.service.datastore.service.connectionManager.ConnectionPoolManager.getConnection(ConnectionPoolManager.java:101)
    at
    com.datametica.bigsuite.web.service.datastore.service.connectionManager.ConnectionPoolManager.getConnection(ConnectionPoolManager.java:112)
    at
    com.datametica.bigsuite.web.service.datastore.service.connectionManager.ConnectionPoolManager$$FastClassBySpringCGLIB$$561c13961.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
    at org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.invokeJoinpoint(CglibAopProxy.java:717)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
    at
  
```

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- If Scheduler runs without Exception, then the Log option will be disabled.

4. Schedulers: Click on the icon to view scheduler details.

Validation Result

Q Search for scheduler

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SAMPLE.DB2ADMIN . TEST_10K					✓	N/A
2	qauser . Test_500					✗	
3	SAMPLE.DB2ADMIN . TEST_500					✗	
4	qauser . test_rmg					✗	
5	qauser . test_rmg2					✗	
6	SAMPLE.DB2ADMIN . TEST_1K					✓	N/A
7	SAMPLE.PELICAN . ALLMATCHES_1K					✗	N/A
8	SCOTT . ALL_MATCHES_1K					✗	N/A

Mapping Name: Test_500_1604653931921

Sr. No.	Scheduler Name	Scheduler Running Time	On Schedule	Time	Execute Now	Status
1	TD_Litmus	Every 6 hours	Disabled	Start Time :- 06-11-2020 18:00:00 End Time :- 07-11-2020 14:53:32	Execute Now	Completed
2	TD_FULL	Every 6 hours	Disabled	Start Time :- 07-11-2020 00:00:00 End Time :- 07-11-2020 14:54:57	Execute Now	Completed
3	TD_Full_Limited	Every 6 hours	Disabled	Start Time :- 06-11-2020 14:47:16 End Time :- 06-11-2020 14:47:57	Execute Now	Completed

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The screen will pop up and will show information and properties of the scheduler such as scheduler name, scheduler running time, on schedule, starting and ending time of last execution of scheduler, execution option of scheduler using Execute Now button and status of the execution.

5. **Table Historical Result:** This column displays the execution history of the schedulers of the respective mapping. This information is represented by **Green**, **Red** and **Blue** circles. The **Green** circle indicates the **Success**, the **Red** circle indicates the **Failure**, the **Blue** circle indicates the **Approve**. The user can hover mouse over these circles to view execution start date and end date of the respective scheduler as shown below.

6. **Results:** This column displays the data validation result. The Result is represented by two flags, namely:

- Success 
- Failure 

Hover mouse  over icon to know the reason for failure.

7. **Sample:** This column displays the sample of mismatch data in case if total mismatch count is greater than zero. Click the  symbol to view samples of mismatched data. This displays the **Sample Data** screen as shown below.


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Sample Data ⏪ Back

● Row missing
 ● Cell mismatch
 ● Cell match
 ● Row duplicate
 Hide/Show Match Column:
Split Horizontal:
Table Name: Test_500

Sample of Mismatched Data From Reference

ID	UID	ZIP	CITY	NAME
1		99212	Kanpur	John
100		99212	Kanpur	Divyanshu
500		22113	Kanpur	Divyanshu
10		99212	Pune	Divyanshu

Sample of Mismatched Data From Destination

ID	UID	ZIP	CITY	NAME
1		99212	Kanpur	Divyanshu
100		99212	Kanpur	Divyanshu
500		99212	Kanpur	Divyanshu
10		99212	Kanpur	Divyanshu

Following Tables are generated on Destination Datastore.

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7.1. The Sample Data report displays sample mismatch data from source and target table with different colours. This report also provides the following filters which helps the user to view the desired information.

 Hide/Show Match Column  Split Horizontal

7.1.1. **Hide/Show Match Column:** The Hide/Show Match Column is a toggle button which shows two States ON and OFF.

When the **Hide/Show Match Column** toggle button is set to **OFF**, then the application displays both matched and unmatched columns as shown above.

When the **Hide/Show Match Column** toggle button is set to **ON**, then the application displays only unmatched columns as shown below.


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Sample Data Back

● Row missing
 ● Cell mismatch
 ● Cell match
 ● Row duplicate
 Hide/Show Match Column:
Table Name: test_rmg2
DUMP MISS-MATCH DATA

Split Horizontal:

Sample of Mismatched Data From Reference

CAST((LENGTH(FORMAT '-(38)9.99')) AS VARCHAR(7))	ID
1.5	1
1.5	2
Row does not exists	
Row does not exists	

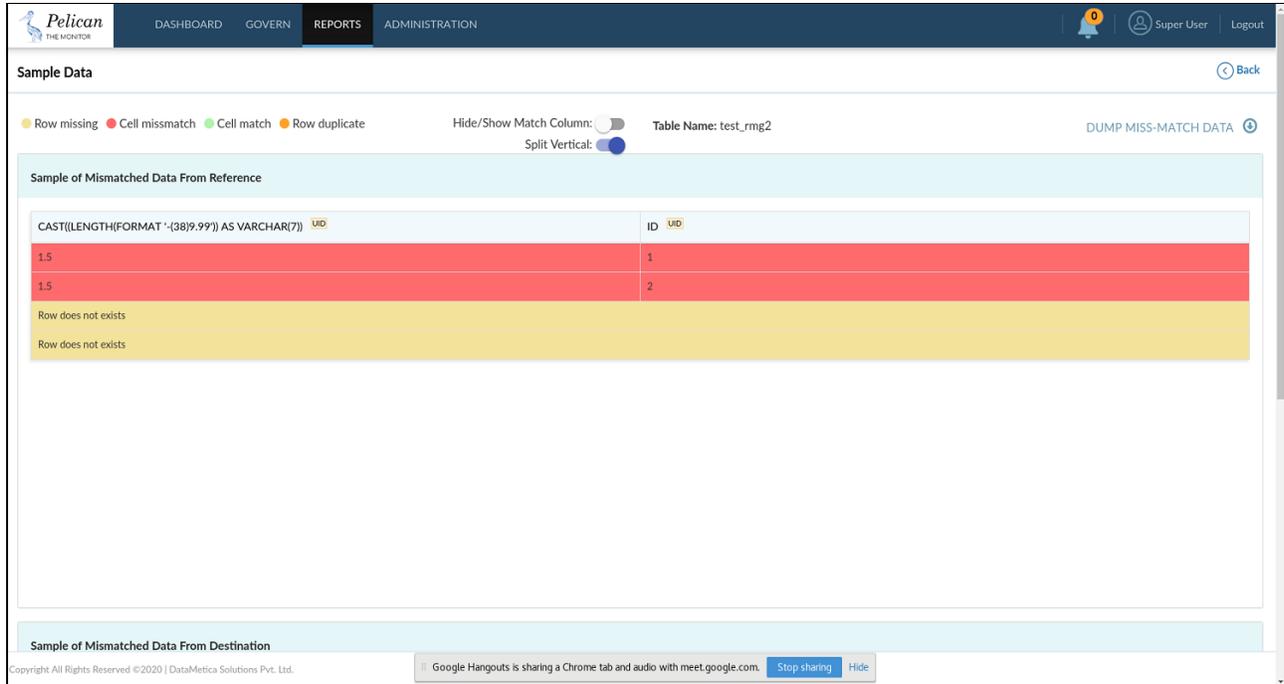
Sample of Mismatched Data From Destination

FORMAT('%F',2,LENGTH)	ID
Row does not exists	
Row does not exists	
1.52	2
1.51	1

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7.1.2. **Split Horizontal:** Set **Split Horizontal** toggle button to **ON** to view mismatch data in the horizontal format, for more information, refer below image.



Sample Data

● Row missing ● Cell mismatch ● Cell match ● Row duplicate

Hide/Show Match Column: Table Name: test_rmg2

Split Vertical:

DUMP MISS-MATCH DATA

Sample of Mismatched Data From Reference

CAST(LENGTH(FORMAT(-(38)9.99)) AS VARCHAR(7))	ID
1.5	1
1.5	2
Row does not exists	
Row does not exists	

Sample of Mismatched Data From Destination

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- Backtrack:** Backtracking functionality helps users to see the execution history and its results for the particular table. It shows the graph containing lineage for the selected table. Also, it shows the execution details of all the tables present in the graph.

9.2. Results from Scheduler page

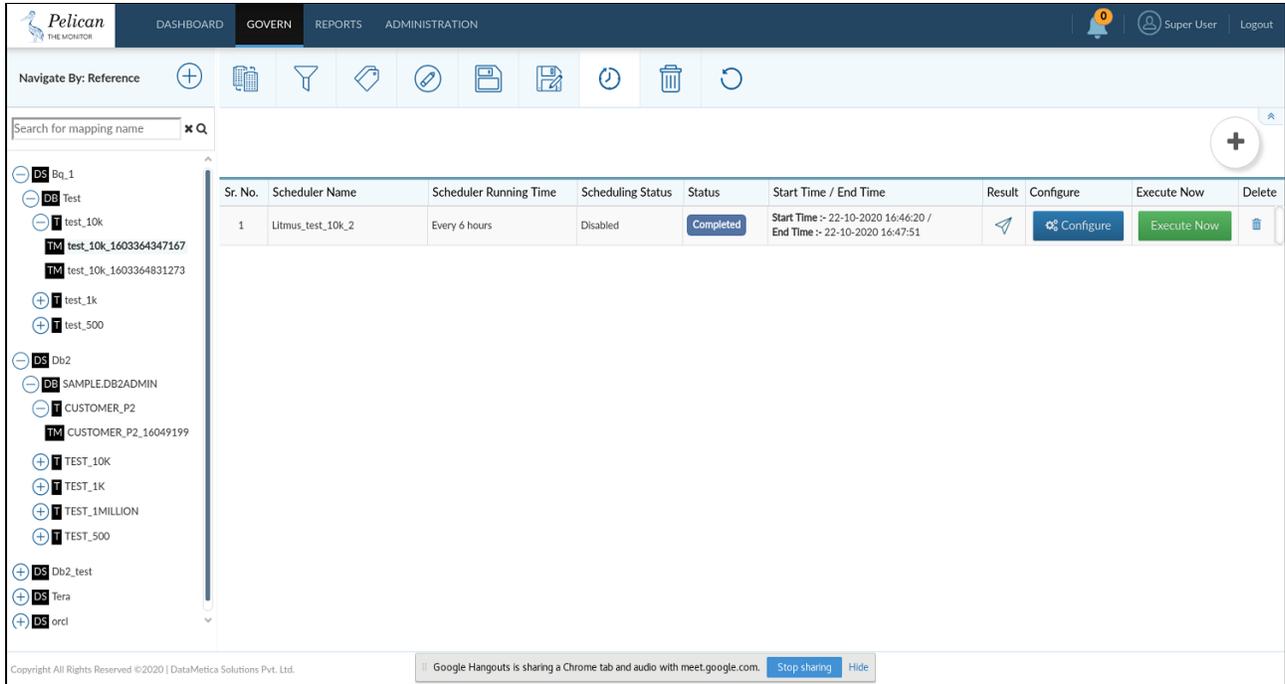
Here, the user can view validation results for the saved mapping.

To view validation result:

- Go to the **Validation Configuration** page and select the saved mapping for which you want to see the validation result and then click on the view scheduler icon

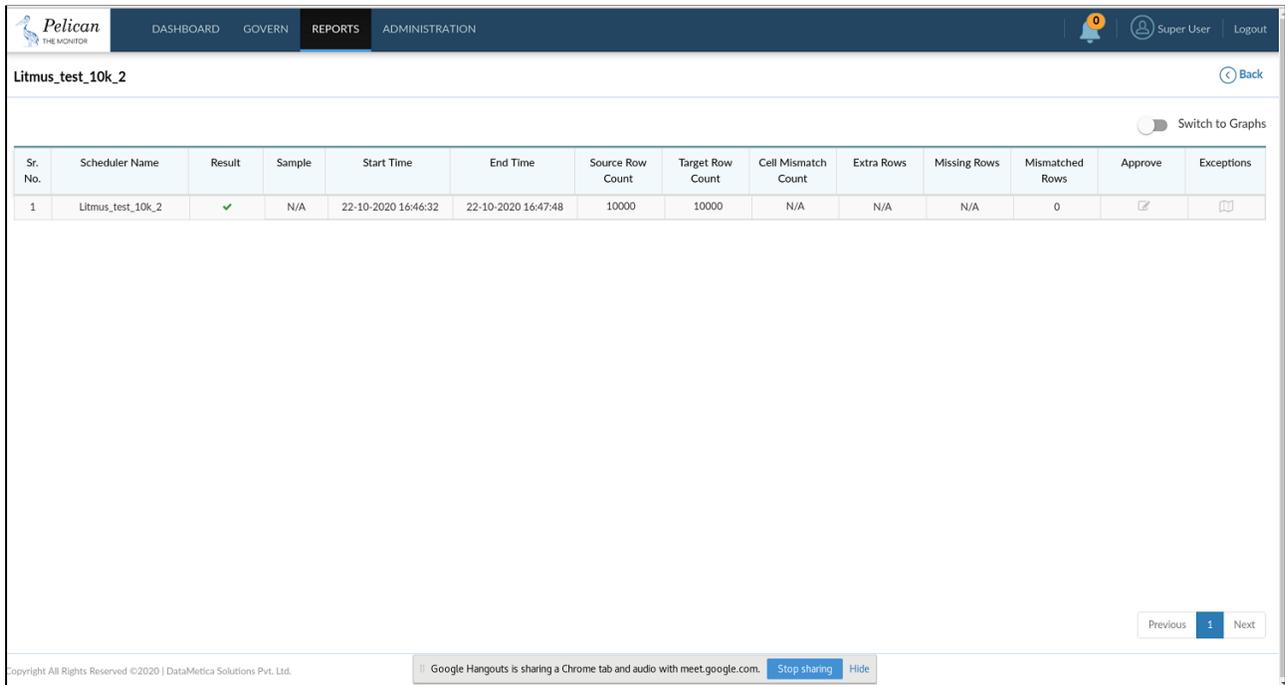


.The following screen will pop up.



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2. Click on the icon  to see the statistics of the validation result page for the mapping.



Litmus_test_10k_2 [Back](#)

Switch to Graphs

Sr. No.	Scheduler Name	Result	Sample	Start Time	End Time	Source Row Count	Target Row Count	Cell Mismatch Count	Extra Rows	Missing Rows	Mismatched Rows	Approve	Exceptions
1	Litmus_test_10k_2	✓	N/A	22-10-2020 16:46:32	22-10-2020 16:47:48	10000	10000	N/A	N/A	N/A	0		

Previous **1** Next

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The fields (columns of the validation result page are the same as explained above).

10. Dashboard

Dashboard screen displays result, trends, graph of the scheduled mappings based on datastore, database, tags, and date. When for the first time the dashboard screen is loaded it will display the dashboard screen for the default datastore. User can select datastore and databases to see the corresponding graphs.

10.1 Filter option for the dashboard Screen

1. Datastore

- We can select the datastore for which we want to see the dashboard screen.



A screenshot of a dropdown menu labeled "Data Store :". The selected option is "Bq_2".

2. Database

- We can select the databases for which we want to see the dashboard screen of that particular datastore.
- By default, all databases are selected for the particular datastore.



A screenshot of a dropdown menu labeled "DB :". The selected option is "SAMPLE.DB2ADMIN".

3. Date

- Result trend has an option to select duration ,for Pelican db result - db wise and donut screen we do have an option to select a date for which we want to see the result

Date* :  10/15/2020 ▼

Duration:  11/1/2020 ▼  11/3/2020 ▼ 

10.1. Different Results on the dashboard screen

We have following graph result trends that is being displayed on the pelican screen:

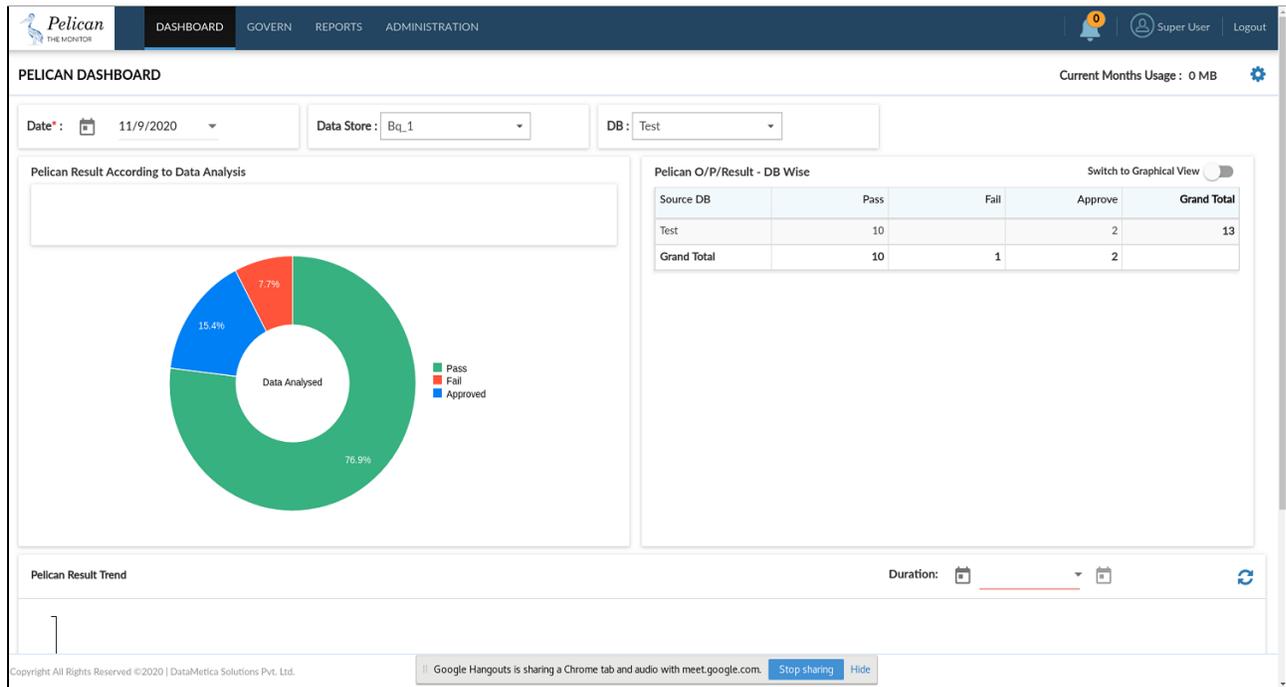
10.1.1 10.1.1. Pelican output result db wise

- It displays total pass/ fail/ approve count of the scheduled mappings for the selected database.
- This info can be seen in two formats shown below, users can switch between graphical and tabular format using the toggle option present on the upper right corner.
- In graphical format **Green** represents total pass count, **Red** represents total fail count and **Blue** represents total approve count.

Pelican O/P/Result - DB Wise

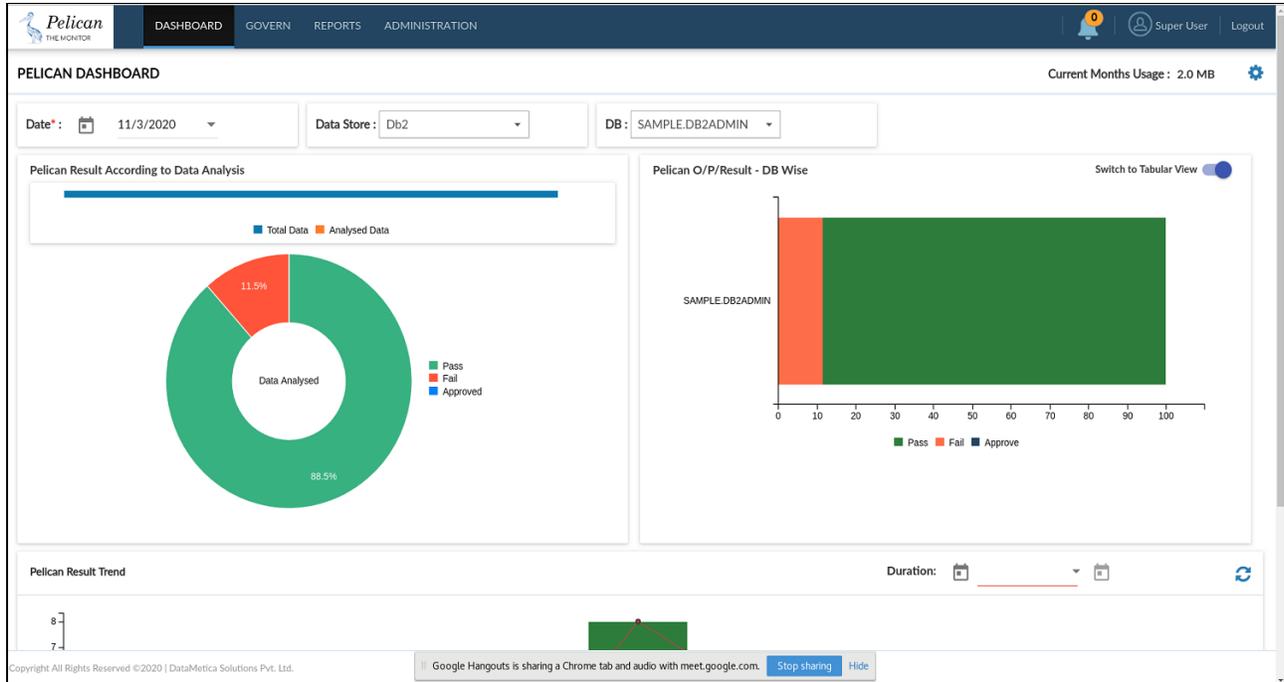
Switch to Graphical View

Source DB	Pass	Fail	Approve	Grand Total
SAMPLE	4	2	1	7
Grand Total	4	2	1	7



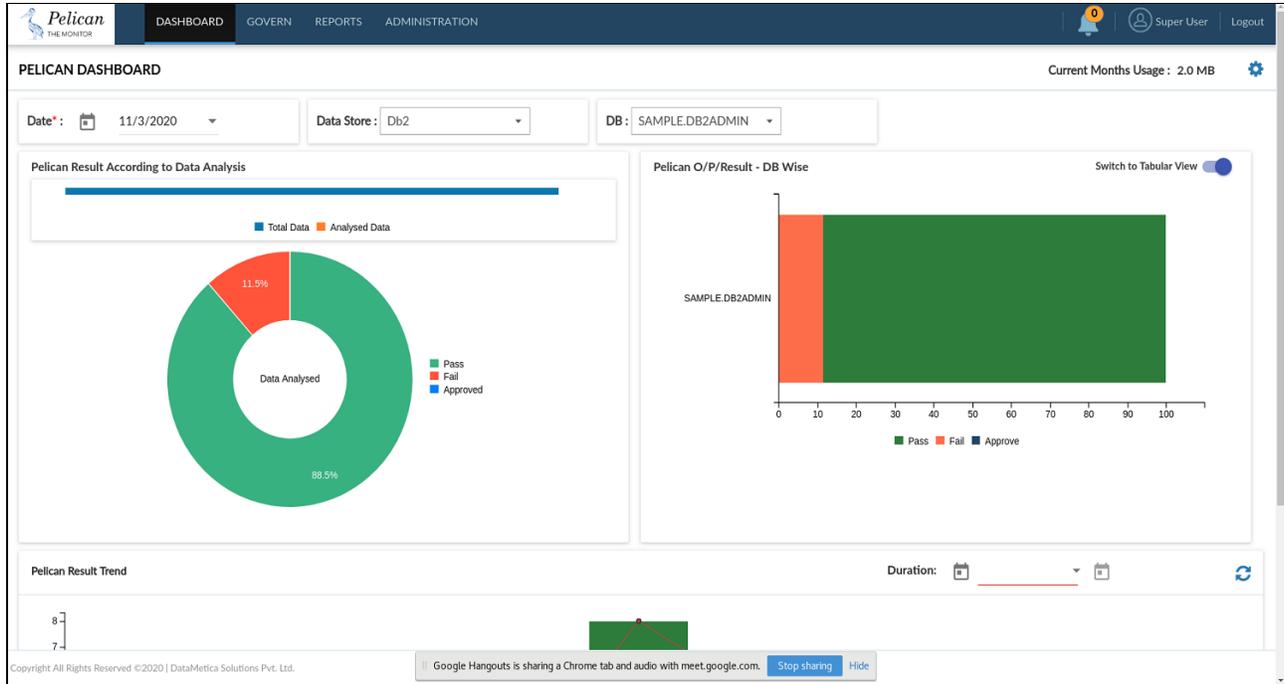
10.1.2 10.1.2. Pelican Pass/Fail/Approve Percentage

- It represents the total pass/fail/approved percentage of the total scheduled mappings for the particular datastore and databases.



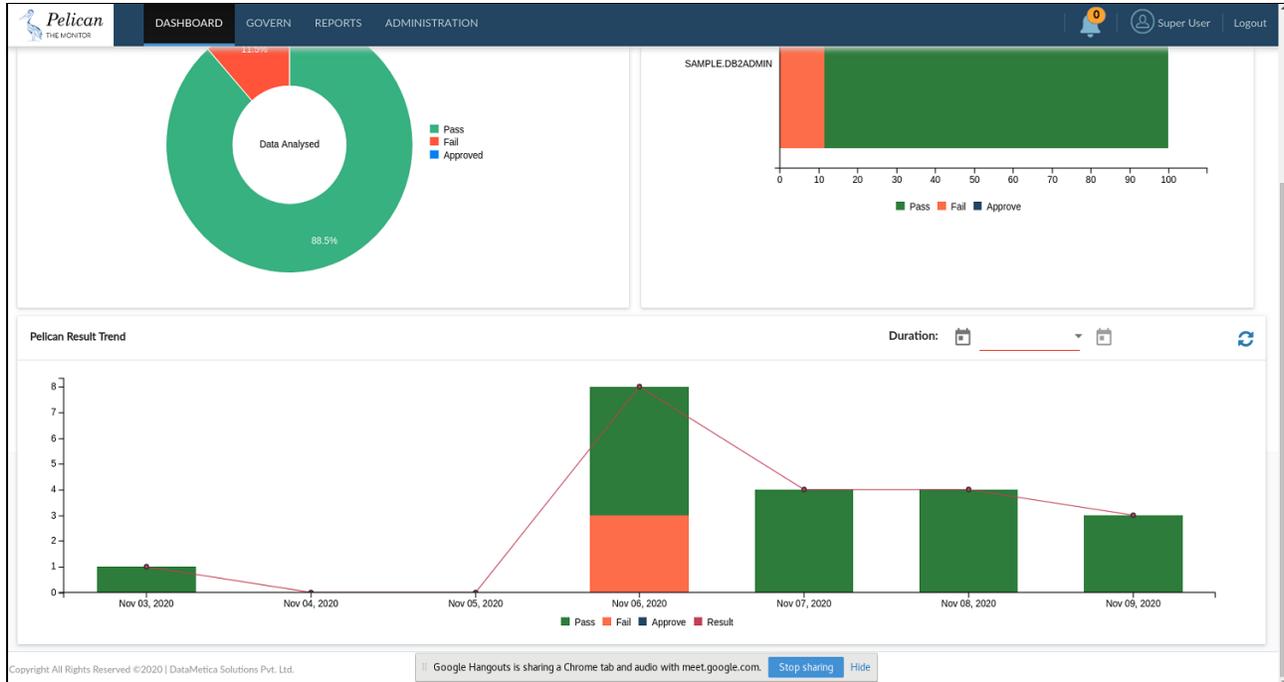
10.1.3 10.1.3. Pelican Result trend

- It represents the total pass/ fail/ approve counts date wise for the selected duration, databases, and tags for particular datastore.
- By default, duration is seven days from the first time the mapping containing the datastore has been executed.
- **Green** represents total pass count; **Red** represents total fail count and **Blue** represents total approve count.



10.1.4 10.1.4. Pelican table usage

It represents the number of tables for which at least a single scheduler has been run and the total number of tables in a particular data store. **Blue** represents tables for which at least a single scheduler has been run whereas **Orange** represents the total number of tables in a particular data store.



11. Add Licence - Buy Your Own license (BYOL)

Buy Your Own license (BYOL) notifies you when your application will expire. Pelican has introduced a new feature, i.e Add licence. This new feature notifies you, the date of the renewal.

11.1. Adding /updating licence

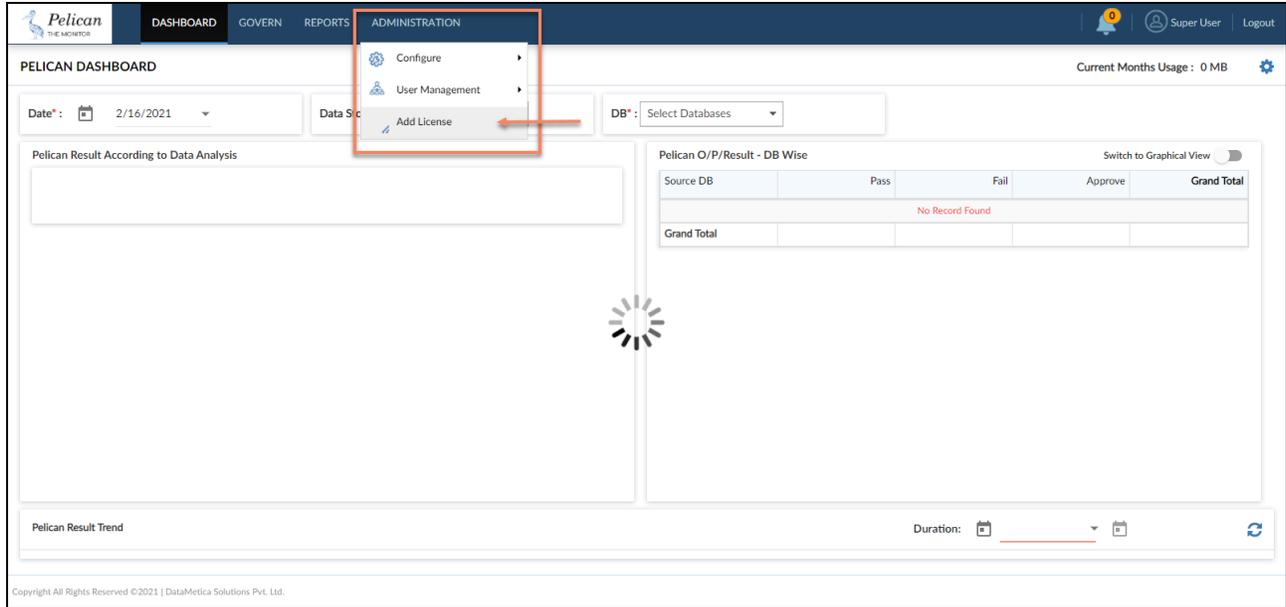
Once you received the pelican licence file, i.e. licence.pel follow the following steps.

Steps 1; log in to the Pelican

Step 2: Administration -> Add Licence

Step 3: Click on the upload and select the Pelican.pel from the file system.

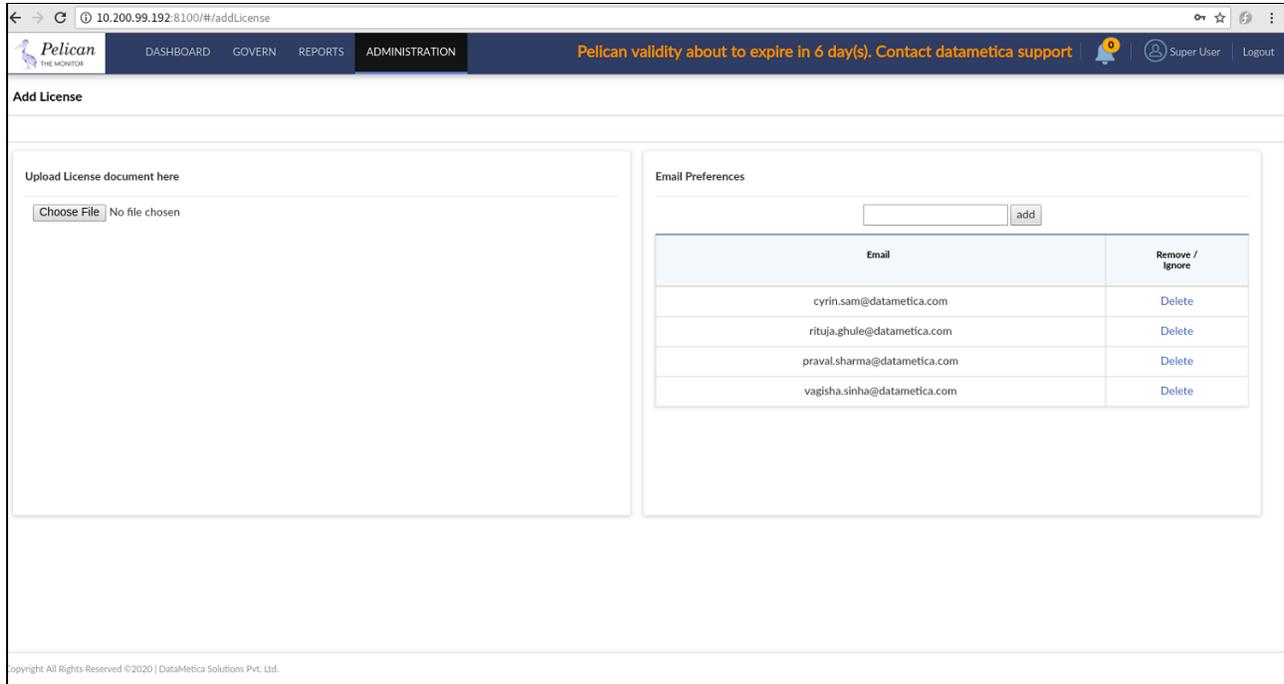
Step 4: Again login to continue the usage.



The screenshot shows the 'ADMINISTRATION' menu in the Pelican Dashboard. The 'Add License' option is highlighted with a red box and an arrow. The dashboard includes sections for 'Pelican Result According to Data Analysis', 'Pelican O/P/Result - DB Wise' (with a table showing 'No Record Found'), and 'Pelican Result Trend'. The top navigation bar includes 'DASHBOARD', 'GOVERN', 'REPORTS', and 'ADMINISTRATION'. The user is logged in as 'Super User'.

11.2. You will be notified in three ways.

1. Detailed email is sent to your registered email address prior to 15 days of renewal , mentioning your product ID and date of renewal. All the registered email addresses will receive the email of notification.



10.200.99.192:8100/#/addLicense

Pelican THE MONITOR DASHBOARD GOVERN REPORTS ADMINISTRATION Pelican validity about to expire in 6 day(s). Contact datametica support Super User Logout

Add License

Upload License document here

No file chosen

Email Preferences

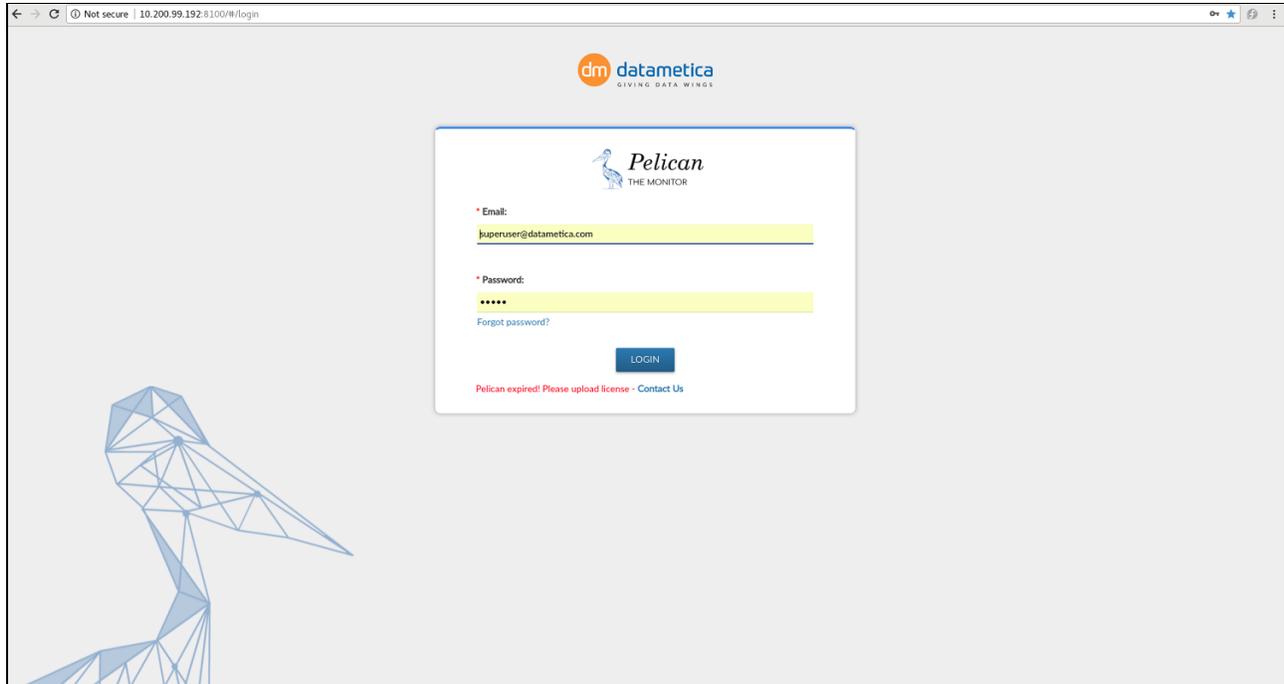
Email	Remove / ignore
cyrin.sam@datametica.com	Delete
rituja.ghule@datametica.com	Delete
praval.sharma@datametica.com	Delete
vagisha.sinha@datametica.com	Delete

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2. On the login screen, below the login tab,

Eg.

Pelican validity is expired. Contact Datametica support, Contact Us.



3. On the main screen, on the menu bar,

Eg.

Pelican validity is expired. Contact Datametica support, Contact Us.

Pelican THE REPORTER DASHBOARD GOVERN REPORTS ADMINISTRATION Pelican expired! Please upload license Super User Logout

Validation Result

Search for scheduler

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SYSTEM.ADMIN_DMTESTP670	DMTESTP670_1604201113212					

Showing 1 to 10 entries of 1

Previous 1 Next

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Once your license is expired, you are able to create the mappings, but cannot run the schedulers. To continue, you need to contact Datametica..

Pelican THE REPORTER DASHBOARD GOVERN REPORTS ADMINISTRATION Pelican expired! Please upload license Super User Logout

Schedulers

PELICAN SCHEDULER Search for scheduler

Sr. No.	Scheduler Name	Scheduler Running Time	Scheduling Status	Status	Start Time / End Time	Configure	Execute Now	Delete
1	stest	Every 6 hours	Enabled	Completed	Start Time -> 24-11-2020 15:42:45 / End Time -> 24-11-2020 15:43:11			

Showing 1 to 10 entries of 1

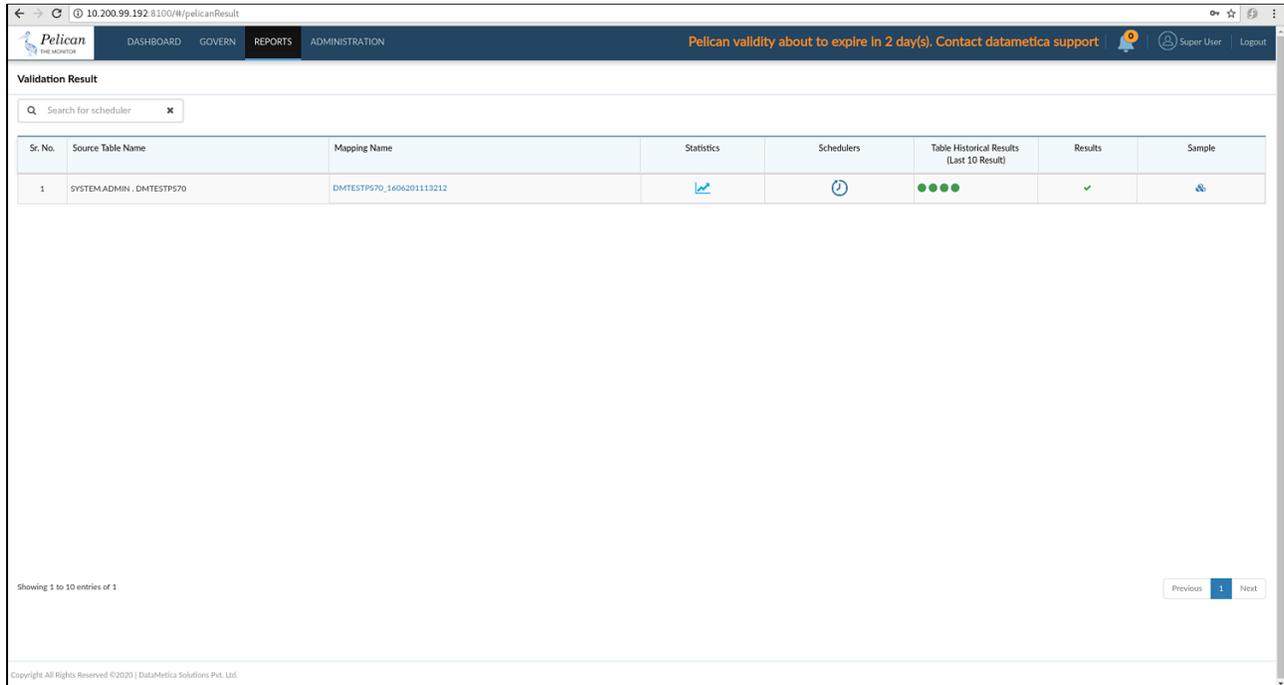
Previous 1 Next 10

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Error
 Validity of Pelican Has Expired
 Please contact Datametica Support

Once you renew the licence, all the functionalities are resumed.

Now, you can run schedulers.



Validation Result

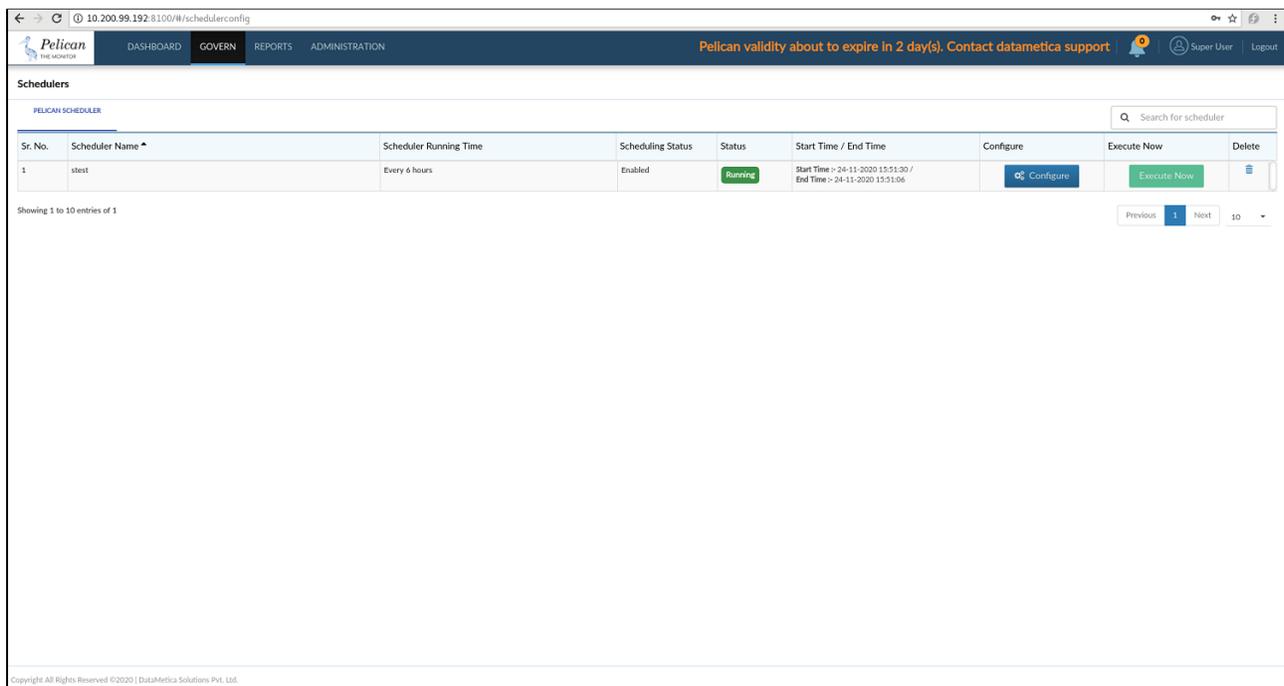
Search for scheduler

Sr. No.	Source Table Name	Mapping Name	Statistics	Schedulers	Table Historical Results (Last 10 Result)	Results	Sample
1	SYSTEM.ADMIN_DMTESTPS70	DMTESTPS70_1606201113212					

Showing 1 to 10 entries of 1

Previous 1 Next

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Schedulers

PELICAN SCHEDULER

Search for scheduler

Sr. No.	Scheduler Name *	Scheduler Running Time	Scheduling Status	Status	Start Time / End Time	Configure	Execute Now	Delete
1	stest	Every 6 hours	Enabled	Running	Start Time > 24-11-2020 15:51:30 / End Time > 24-11-2020 15:51:06			

Showing 1 to 10 entries of 1

Previous 1 Next 10

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12. Frequently Asked Questions

1. 12.1. How to view the validation result in Pelican?

The validation result can be viewed only for those tables whose table mapping is done. So, if you are a new user and the validation mapping has not been done yet then you need to follow the below given steps:

Step 1: First, you need to configure a data store.

Step 2: Followed by datastore configuration, you need to validate tables between source and destination datastore.

Step 3: Next, you need to configure the scheduler for the saved validation mapping

Step 4: Finally, go to Reports and click Validation Result. For more information, refer to the [Validation Result](#) topic.

12.2. Which are the various data stores the Pelican supports?

Pelican supports comparison between various data stores. For more information, refer to the [Data Store Support](#) topic.

2. How to validate tables between source and destination datastore?

You can validate tables between source and destination Datastore using Validation Configuration functionality. For more information, refer to the [Validation Mapping](#) topic.

3. 12.3. What is the scheduler and how to configure it?

The Scheduler allows the user to execute processes at a regular time interval. In Pelican, the user can create a scheduler for a saved mapping; so that, after a time period the scheduler executes the process and it validates the source table with destination tables. For more information, refer to the Scheduler Configuration topic.

4. 12.4. How to configure the email notification?

Email notification functionality allows the user to send an email automatically to various users on the execution of the scheduler. For more information, refer to the [Email Notification](#) topic.

12.5. How to update the pelican licence?

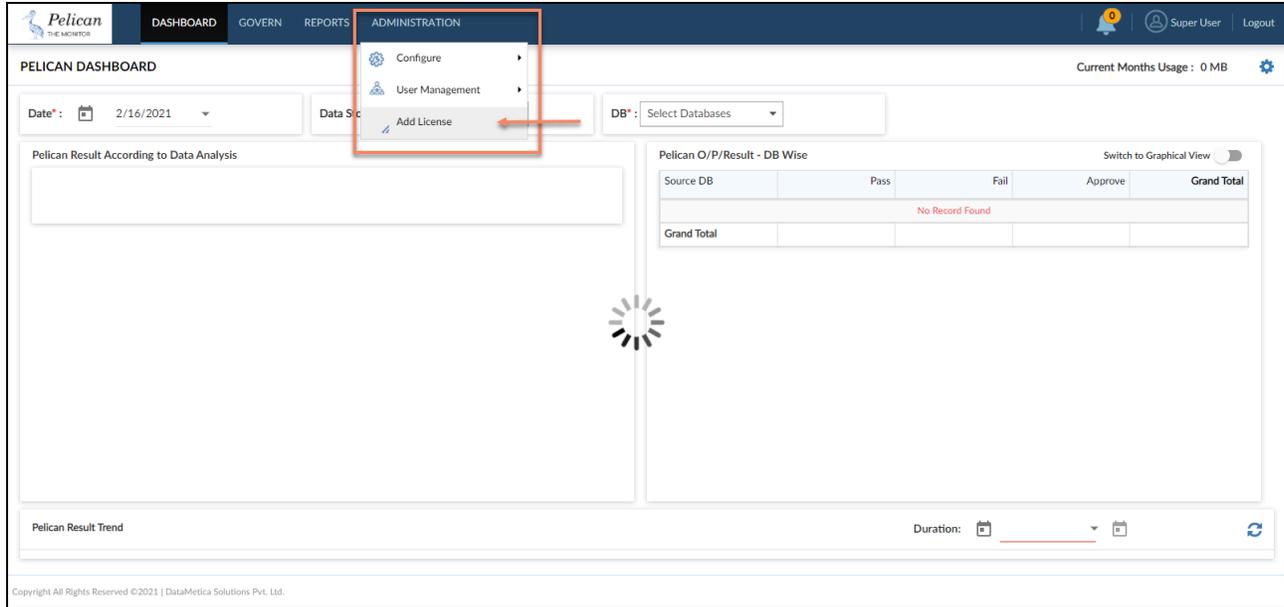
Once you received the pelican licence file, i.e. licence.pel follow the following steps.

Steps 1; log in to the Pelican

Step 2: Administration -> Add Licence

Step 3: Click on the upload and select the Pelican.pel from the file system.

Step 4: Again login to continue the usage.



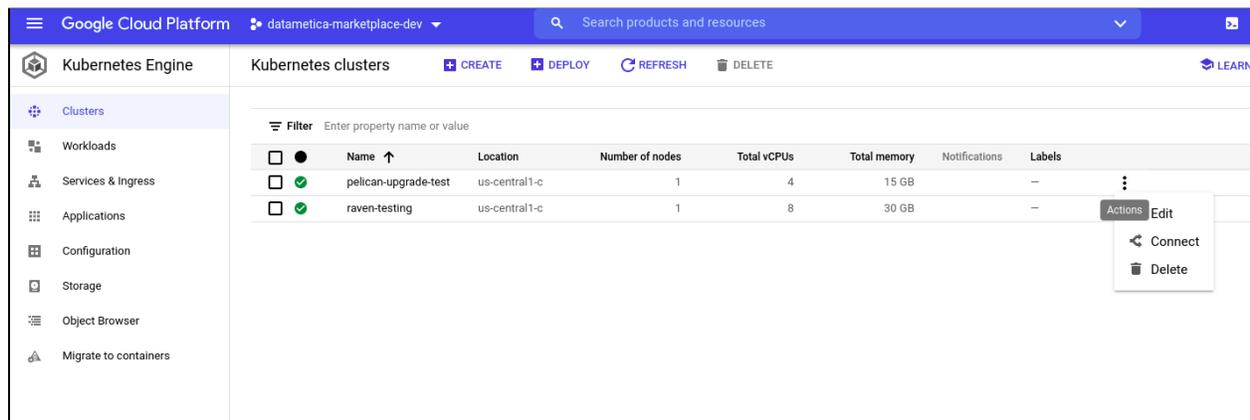
12.6. Who can create LDAP users?

Only the superuser has the right to create LDAP users. LDAP users can't create any new users. Only users with Admin access can create new LDAP users.

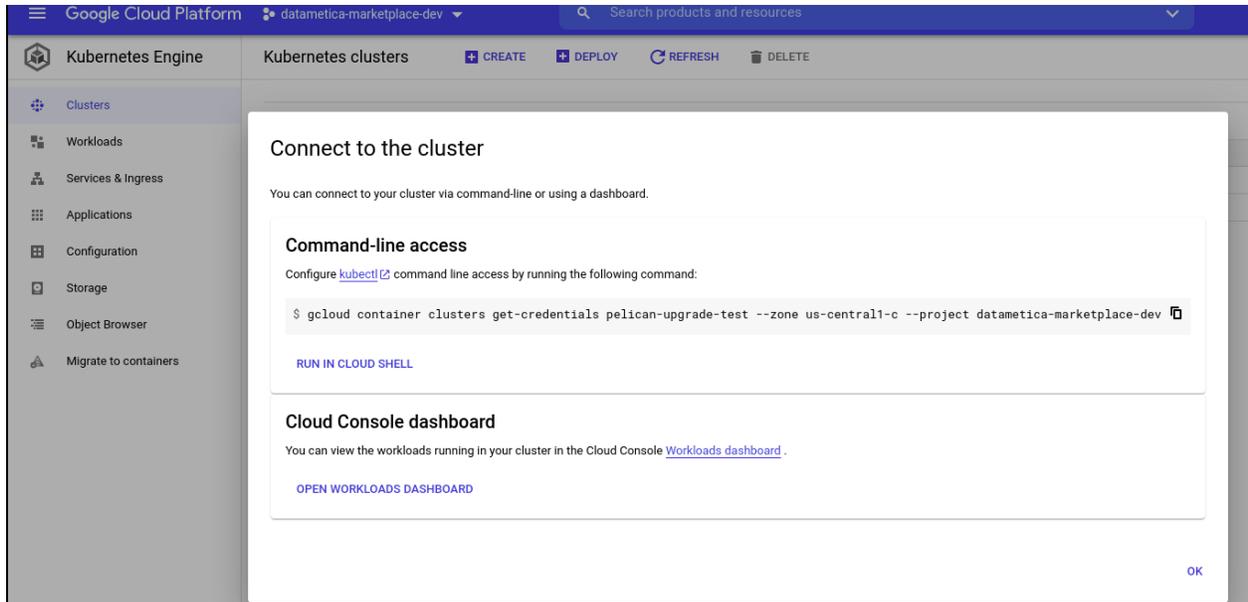
12.7. How to get GKE server(Pelican services) start-stop access permissions to QA Lead?

Step 1 - Go to GCP console > Search for GKE

Step 2 - Click on Connect your cluster



Step 3 - Click on Run in cloud shell



Step 4 - Run this command after login on cluster - **kubectl get pods**

Step 5 - Copy the web pod name and run this command to restart the service - **kubectl delete podname**

Note - Pelican service pod will be automatically started and old one will be deleted.

12.8. How to get Application log file url along with access permissions to QA users (catalinaout.log and application.log) ?

Step 1 - To see the application logs, we need to go inside the pelican pod. Run this command to go inside the pod - **kubectl exec -it podname bash**

Step 2 - Now you can view the logs on this file path - **/usr/local/apache-tomcat-8.5.65/logs/application_logs/log.log**