

Raven User Guide





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1. Raven Overview

Raven is a web application, used for SQL script translator and it can be deployed on Google, The tool automates the process of translating the database translation from source to target. Using this tool, you can translate the database from translating Teradata SQL to Big Query SQL.

Raven user manual is designed to understand the functionality of the tool and use it with ease. This section introduced to the Raven, let you be aware of the prerequisite for the installation and implementing it.

1.1. Preface

The Raven user guide discusses translating your Teradata SQL script to BigQuery. It is written for the software developers, who are responsible for the translation process of 'Source Target Data Mapping. The user guide explains how to manage flat files or mainframe systems in your environment. This guide assumes that you are familiar with the interface requirements for translation.

1.2. Prerequisite

To use the tool, the following are the system requirements:

- Memory Requirement 60 GB or more (Recommended)
- Free disk space 60 GB or more (Recommended)
- Processor quad-core or more (Recommended)

The database and files required to start the translation -

- 1. Jar files
- 2. JSON files

1.3. Creating Login Credentials

1.3.1. Who can create the login credentials?

• The first time login credentials are shared on the landing page of the Google Marketplace



- The Superuser has the authority to create new login credentials for the new users. Only the superuser can add new users, edit or delete an existing user.
- Note: The email field should be the user name i.e. work email address with the first and last name. The password must be alphanumeric and to initiate the password for the first time the user has to go through the SMTP configuration.
- You may know more details about adding new users. visit Administration

1.3.2. First-time login

First-time login - superuser

To initiate the account, you have to log in to the application with an email address superuser@datametica.com and the password "Admin\$321!". On your first login, the system will ask you to reset the password.

First-time login - Translator or Superuser generated superusers.

- 1. You will receive a system-generated Raven Password over your registered email.
- 2. Navigate to the login page.
- 3. Enter the email address and system-generated Raven password
- 4. Click on Sign In

* Email:
A rutuja.ghule@datametica.com
Password:
Sign in



Image Descent • New Password: • confirm New Password:

5. To **reset the password**, enter a new password in New Password and Confirm New Password fields respectively.

6. Click on **Change Password**., the system will display a success notification for login this process,

7. Now, login with a new password.

1.3.3. Log out

Logout

- On the right top corner, there is name of the user is displayed.
- Right-click on Icon and select Logout.



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Dashboard	(A) superuser superuser (II) Help
No. of files translated by each user till date	No. of files translated against each mapping till date
dm datametica	© 2021 Datametica Solutions Pvt Ltd . All rights reserved.

1.3.4. Forgot Password

Forgot Password for existing users -

On the login page, enter your work Email address and Password and then click on Sign In. If you forget the password, click on the forget password and follow the asked steps.



2. Dashboard

The Dashboard displays detailed information about the operations performed to date. You can see the Dashboard menu once you login into Raven.

Dashboard let you know two KPI's-

- Number of files translated by each user till date
- Number of files translated against each mapping till date,

the transformer DASHBOARD ADMINISTRATION SETUP TRANSLATE	superuser - (R)
Dashboard	
No. of files translated by each user till date	No. of files translated against each mapping till date
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3. Administration

The administration menu allows you to manage -

- Email server setup
- User management
- Bucket Configuration

3.1. Email Server Setup

In the Administration menu, Email Server Setup is given for Simple Mail Transfer Protocol (SMTP) configuration. This is required for the SMTP configuration, in which the system sends a Password email to the end-user. It verifies the details and set a new password

This allows the system to auto send a system-generated new password email to the new or first time user. If you have entered incorrect details, a pop-up notification is displayed on the screen, otherwise correct validations make a successful attempt by sending an email with a system-generated password.

To get the system generated password, see the inbox of the registered email Id.

Steps -

1. Follow login steps, Getting Started

2. Navigate to the Administration tab and select Email Server Setup.

3. Enter the details in the form, **User name, Password, Host, and Port** (all fields are mandatory)



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	Password: Ø	
	Host: smtp.googlemail.com	
	* Port: 587	
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4. Click on Test Configuration to validate the entered details

An error message is displayed if the SMTP Configuration is invalid.

OR

dm datametica

A successful message is displayed when the SMTP Configuration is valid.



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5. Click on Save Configuration.

3.2. User Management

User Management allows superusers to manage all the user activities. In this application to carry out the translation process, two roles are defined. Superuser -



- 1. Superuser is the one who Logins first time to the system.
- 2. Superuse has the authority to add new users and can assign them a role as a superuser or translator.
- 3. Superusers are responsible for creating directory and manage users (add, delete, reset passwords)

Translator -

1. Translators have limited access to the system and they are only permitted to do a translation of the scripts.

Administration Screen -

Administration -> User Management -> User list



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3.2.1. Add user

To add new user -

• Administration -> User Management -> Add new user (right top corner)



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- 1. In Add New User form enter First Name, Last Name, Email Id, and select Role.
- 2. Click on Save.
- 3. To view a list of users click Administration -> User Management -> User List, You can see the updated list of users.

3.2.2. Change the password for new user

To reset the password for newly created users. Follow the given steps -

1. Open the system generated Raven Password email.



- 2. Go to Login screen
- 3. Select the password and enter the **same password on the login screen** along with the **email id**.

Raven The TRANSFORMER
* Email:
A rotuja.ghule@detametica.com
* Password:
🖻 Омизта0т 💿
Forget Password?

- 4. Click on Sign in.
- 5. On the Change **Password screen**, enter New Password and Confirm New Password.

Enarge Password • New Password • Certifirm New Password </th

6. Click on **Change Password.**

Your password is **successfully updated**.



3.2.3. Delete user

To delete user,

- 1. Administration -> User Management -> User list -> click on the delete icon displayed in front of the user
- 2. The new pop up window is displayed to verify the deletion of the user. Click on Yes.

Note: Once you delete any user the batches created by that user will be deleted.

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3.3. Bucket Configuration

Why Bucket configuration?

Since Raven is a container-based application, it requires access to a bucket to persist dictionaries and translation batches across pods or to retain these files after server/pod restart. This is recommended but optional. If not done, then users will need to upload the dictionary every time after application restart.



1. Go to Administration -> Bucket configuration

The services account JSON file has, write access to the bucket mentioned while launching the application. Hence, upload the services account JSON file.



the transformer DASHBOARD ADM	INISTRATION SETUP TRANSLATE	superuser - (8)
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2. Upload service.JASO file.

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		Open Cancel	

3. Click on the Upload button.



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4. Equivalence File User Guide

This section let you know details about the equivalence file.

- Pre-translation, users can change the database name, schema name, table name, and column name of the target product.
- Source product system tables can be supported by mapping them with target product system tables.
- The naming scheme of the target system can change due to which table/view/column name changed. To handle such scenarios we use an equivalence file.
- As per Teradata to BQ Migration guidelines, a database in Teradata is equivalent to a dataset in BigQuery.
- If any customer requires a variation in it, then an equivalence file can be used for this purpose.

4.1. DB Sheet

This sheet is used to map the source SQL product to the target SQL product.

SourceDB - type of the source data warehouse. For e.g. Teradata,

TargetDB - name of the target data warehouse. For e.g BigQuery.

TERADATA

SourceDB	TargetDB
teradata	big_query

4.2. Entity Equivalence Sheet

This sheet is used to map the source product entity(table, view, etc...) name with the target product entity name.

- **Product** name of the source/target SQL language.For e.g.teradata,bigquery
- Database name of the source/target Database. For e.g. DEFAULTDATABASE
- Schema name of the source/target Schema.For e.g. FOODMART
- **Name** name of the source/target Entity. For e.g. employee



Let us consider an example user who wants to translate Teradata sql to bigquery sql. Details are given as below for teradata and bigquery .

TERADATA

- Product : teradata
- Schema : foodmart
- Database : DEFAULTDATABASE
- Name : trimmed_employee (name of the table or view in teradata)

BIGQUERY

- Product : big_query
- Schema : foodmart
- Database : dm-eagle(Bq_Project_Id)
- Name : trimmed_employee(name of the table or view you want in bigquery)

So Entity sheet will look like

TERADATA

product	database	schema	name	product	database	schema	name
teradata	DEFAULTDA	foodmart	trimmed_employee	big_query	dm-eagle	foodmart	trimmed_e
	TABASE						mpoyee

4.3. Schema Override Sheet

This sheet is used to map the source product schema name with the target product schema name.

- **Product** name of the source/target SQL language.
- **Database** name of the source/target Database.
- Schema name of the source/target Schema.

Let us consider an example user who wants to translate teradata to bigquery sql. Details are given as below for teradata and bigquery .

TERADATA



- Product : teradata
- Schema : foodmart
- Database : defaultdatabase

BIGQUERY

- Product : big_query
- Schema :

Product(Teradata)

Schema = foodmart (schema)

Database : dm-eagle (Bq_Project_Id)abase)

Database : dm-eagle (Bq_Project_Id)

So, schema override sheet will look like this for -

TERADATA

product	database	schema		product	database	schema
teradata	defaultdatabase	foodmart		big_query	dm-eagle	foodmart

4.4. Database Override Sheet

This sheet is used to map the source product database name with the target product database name.

- Product name of the source/target SQL language.
- Database name of the source/target Database.

Let us consider an example user who wants to translate teradata sql to bigquery sql. Details are given as below for teradata, and bigquery .

TERADATA

- Product : teradata
- Database : defaultdatabase

BIGQUERY

- Product : big_query
- Database : dm-eagle (Bq_Project_Id)



So database Override sheet will look like this for

TERADATA

product	database		product	database
teradata	defaultdatabase		big_query	dm-eagle

4.5. Column Override Sheet

This sheet is used to map the source product column name with the target product column name.

- **Product** name of the source/target SQL language.
- **Database** name of the source/target Database.
- **Schema** name of the source/target Schema.
- Name name of the source/target Entity(table, view, etc.).
- **Column -** name of the source/target column.

Let us consider an example user who wants to translate teradata or netezza sql to bigquery sql. Details are given as below for teradata and bigquery .

TERADATA

- Product : teradata
- Schema : foodmart
- Database : DEFAULTDATABASE
- Name : employee (name of the table or view in teradata)
- Column : first_name

BIGQUERY

- Product : big_query
- Schema : foodmart
- Database : dm-eagle (Bq_Project_Id)
- Name :migrated_employee (name of the table or view you want in bigquery)
- Column : migrated_fname (teradata)



So Entity Equivalence sheet will look like

Note:- Here table name is employee, Employee in teradata and we want to map it to migrated_employee on big_query .

So column Override entry will look like this for

TERADATA

product	database	schema	name	Column	product	database	schema	name	column
teradata	defaultdata	foodmart	employee	fisrt_name	big_query	dm-eagle	foodmart	migrated_	migrated
	base							employee	_fname

4.6. Netezza Metadata Extraction

4.6.1. OBJECTIVE

In order to perform the Raven translation, metadata will be collected from the system. The Utility to extract the metadata from Netezza system will be made available through a link to accessible location which will be shared separately. The location contains 'Extraction Utility (Release Folder).zip'

Download the Zip file to obtain this runbook and folder 'Netezza(V3)_28072020' that contains following files:

- metadata_extraction.jar [Executable]
- Metadata_Prop [Metadata Properties folder]
- Query_Prop [Query Properties Folder]
- schema-files [Schema files for tables to be extracted]

The extracted files 'Netezza_tables.properties' which are in the folders 'Metadata_Prop' and 'Query_Prop' will need to be updated with environment details for extraction. The other file, which is executable, needs to be run on a Linux/Windows system. Please refer to section 3 for step by step instructions on performing above activities, section 2 contains the extraction pre-requisites



4.6.2. PREREQUISITE

4.6.2.1. Version and configuration

As a prerequisite for providing the extraction utility Datametica would need to know the Netezza version and configurations for capturing the activity log. Queries to get these information have been provided below:

- Identifying the version of Netezza
 'SELECT SYSTEM_SOTWARE_VERSION FROM _V_SYSTEM_INFO'
- Identifying the logging configurations
 'SHOW HISTORY CONFIGURATION'

The query yields following outputs that need to be shared with Datametica over email

- 1. HISTTYPE(history type): query/audit (whether this is query or audit)
- 2. VERSION(version of histdb and configuration): 1,2 or 3 (which version is configured for history configuration and history database)
- 3. COLLECT: plan, column or table or query (type of collection plan which is used)
- Identifying the Case configurations nzsql -c "select identifier case"

The extraction utility would be provided based on the versions identified from the above two queries. In this version of the extraction runbook, the information in the Data Prerequisites section has been provided for history database version 3 which is latest. If the version is lower a revised document would be provided along with the extraction utility JAR.

4.6.2.2. Technical prerequisites

- Linux/Windows server with connectivity to Netezza having good bandwidth
- Java 8 Installation
- Sufficient storage for the extracted data. (approximately 1-3 GB)
- Mechanism to upload the data to Cloud e.g. Google Cloud Storage
- Netezza access details, e.g. host/port/username/password

4.6.2.3. Data Prerequisites

 Metadata and log for all the tables and columns should be made available for all EDW layers (stage, transform, semantic, reporting, etc.)



- Access to the following metadata tables for data extraction needs to be provided:
 - v_database
 - v_table
 - v_view
 - v_relation_column
 - v_procedure
 - v_synonym
 - v_extobject_xdb
 - v_jdbc_indexinfo1
 - v_obj_relation_xdb
 - v_sys_columns
 - \$v_hist_queries
 - \$hist_query_prolog_\$version
 - \$hist_query_overflow_\$version
 - \$hist_session_prolog_\$version
 - \$v_hist_table_access_stats
 - \$v_hist_column_access_stats
 - \$hist_plan_prolog_\$version

1. 4.6.3. EXECUTION STEPS

- 1) Unzip the file "Netezza_Extraction_Utility" and copy it to the location where meta-data is to be extracted (Referred as "extraction_home" moving ahead)
- 2) Extracted folder will have:
 - a) metadata_extraction.jar
 - b) Two folders for property file, both of these folders will have one property file each. These folders and corresponding file are:
 - i) Metadata_Prop
 - Netezza_tables.properties (for 10 metadata tables)
 - ii) Query_Prop
 - Netezza_tables.properties (for 7 log data tables)
 - c) Schema-files

PROPERTY FILE CONFIGURATION - 3(a) & 3(b) are for property file configurations



3) Update these Netezza_tables.properties as mentioned below:

- a) Metadata_Prop > Netezza_tables.properties (for 9 metadata tables)
 - i) URL= <Connection URL for Netezza>
 - ii) DATABASE_USERNAME=<Credential for connection>
 - iii) DATABASE_PASSWORD=<Credential for connection>
 - iv) AVRO_FILE_OUTPUT_DIR=MetadataOutputDir
 - v) LIST_OF_DATABASES=<TEST1, TEST2, TEST3>*

* These are comma separated database names that are a part of assessment scope

b) Query_Prop > Netezza_tables.properties (for 7 log tables)

- i) URL= <Connection URL for Netezza>/<histdb_name>
- ii) DATABASE_USERNAME=<Credential for connection>
- iii) DATABASE_PASSWORD=<Credential for connection>
- iv) AVRO_FILE_OUTPUT_DIR=HistOutputDir
- v) LIST_OF_DATABASES=<histdb>**

** This configuration is by default commented and only used when there are more than one history databases. To use this, at line (i) use connection url without <histdb_name>, uncomment line (v) and add comma separated history storage database names that capture activity logs



- vi) The property file has options to filter four tables and fetch data from them for a defined number of days. By default utility is set to extracts data for 33 days, these conditions can be reset as per the requirements
 - v_hist_queries

condition1=CAST(SUBMITTIME AS DATE) BETWEEN CURRENT_DATE - 33 AND CURRENT_DATE

• hist_query_prolog_\$n

condition2=CAST(SUBMITTIME AS DATE) BETWEEN CURRENT_DATE - <mark>33</mark> AND CURRENT_DATE

- hist_session_prolog_\$n
 condition4=CAST(CONNECTTIME AS DATE) BETWEEN CURRENT_DATE 33 AND CURRENT_DATE
- hist_plan_prolog_\$n
 condition7=CAST(SUBMITTIME AS DATE) BETWEEN CURRENT_DATE 33 AND CURRENT_DATE
- Once the property configurations are done, open a command prompt and navigate to the <extraction_home> (folder where the extracted folder is placed)
- Copy the Netezza_tables.properties file which was updated in step 3(a) from Metadata_Prop folder and place it on <extraction_home>
- 6) Execute the below command: java -jar metadata_extraction.jar Netezza
- 7) When the extraction is done, extraction_home directory will have a new file and new folder with files in it:
 - a) New File: Extraction_logs
 - b) New Folder: MetadataOutputDir (with 10 Avro files in it)
- Note: In case of any errors, please share the extraction logs with Datametica On successful extraction, 'MetadataOutputDir' folders are to be zipped and shared with Datametica.

4.7. Teradata Metadata Extraction

4.7.1. OBJECTIVE

In order to perform <u>Raven extraction</u>, metadata will be collected from the system.



TheUtilitytoextract the metadata from Teradata system will be available on the cloud and location shared on email. On downloading Zip file named "Teradata_Extraction.zip", please extract it to obtain the following files:

- metadata_extraction.jar [Executable]
- Teradata_tables.properties [Properties]

Once the extracted folder is available, Teradata_tables.properties needs to be updated with environment details. The executable needs to run on a Linux/Windows system. For step by step instructions on how to perform the above mentioned execution, please refer to section 2.

4.7.2. PREREQUISITE

- 4.7.2.1. Technical prerequisites
 - Linux/Windows server with connectivity to Teradata having good

bandwidth • Java 8 Installation

- Sufficient storage for the extracted data. (100 to 500 GB)
- Mechanism to upload the data to Cloud e.g. Google Cloud Storage •

Teradata access details, e.g. host/port/username/password

4.7.2.2. Data Prerequisites

• Metadata and log for all the tables and columns should be made available for all

EDWlayers (stage, transform, semantic, reporting, etc.)

 Access to the following metadata tables for data extraction needs to be provided:







4.7.3. EXECUTION STEPS

- Unzip the file Teradata_Extraction and copy it to the location where meta-dataistobeextracted (Referred as "extraction_home" moving ahead)
- Extracted folder will have:
 - 🌔 metadata_extraction.jar
 - Teradata_tables.properties (Please don't make any table name)

changesinproperty file.)

• Update Teradata_tables.properties as mentioned below:

URL= Connection URL for Teradata

DATABASE_USERNAME=credential for connection

DATABASE_PASSWORD=credential for connection

AVRO_FILE_OUTPUT_DIR= Extracted_Data



 Open a command prompt and navigate to the <extraction_home> (folder wheretheextracted folder is placed)

• Execute the below command:

🤤 java -jar metadata_extraction.jar Teradata

• Once the extraction is done, extraction_home directory will have the

following new file & folder:

File: Extraction_logs

😔 Folder: Extracted_Data

■ (value of key: AVRO_FILE_OUTPUT_DIR from step 3) ■ Following

folder will have all the extracted table avros:

• (10 avros must be present)

Note:

• In case of any errors, extraction logs are expected to be shared • Zipped

version of Extracted_Data folder needs to be shared with Datametica



5. Setup

In the setup, the source-target mapping is given to provide the base platform for translation of the scripts, which includes directories i.e. metadata of the source system. This allows setting up Raven workspace for validating translation queries, tables, views, columns, data types, metadata etc.

Login -> Setup



ource-Target Mapping List				Add Source	Farget Mapping 🛛 🕂
					_
Mapping Name 👙	Source Dialect	t 🖕 Target Dialect 🖕 Validation Project Name 🖕	y Download	Edit	Delete
CHALS_FOR_REJECTED	Teradata	BigQuery	± *	ß	•
Nordea_30Mar_oldDict	Teradata	BigQuery	≛ *	C	Û
nordea_30Mar	Teradata	BigQuery	± *	ß	•
CS_B	Teradata	BigQuery	± •	Ø	÷.
GMI_up	Hive	BigQuery	<u>*</u> *	C	Ê
GMI_new	Hive	BigQuery	± +	ß	۵
chals_shubhankar_new	Teradata	BigQuery	≛ ▼	C	Û
Chals_Shubhankar	Teradata	BigQuery	± *	ß	۵
A	Teradata	BigQuery	± +	Ø	۵
Chals_New_Shubhankar	Teradata	BigQuery	± *	Ø	÷.
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sformer DASHBOARD ADM	INISTRATION SETUP	TRANSLATE			< 1 2 >
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5.1. Adding Source Target Mapping

The Raven application helps to create a Big Query environment by validating the dictionaries for the Translation process. To set up the Source Target Mapping entities from Teradata to Big Query.

Prerequisite for the Big Query environment, to see if tables are valid to run the Translation process.



You can manage any type of Source Metadata:

- 1. Extracted Dictionary
- 2. DDLs dictionary.

If you do not have an Extracted Dictionary, then you can **upload DDLs and create runtime dictionaries**. Connect with **Datametica to receive runtime dictionary** on support email.

The Setup allows adding a new Source Target Mapping, editing or deleting an existing Source Target Mapping.

Prerequisite -

Г

In order to perform Source Target Mapping, you need all the files mentioned in the following table.

Source	Target	Source Target Mapping helps the user to translate tables, views, and columns with their
Mapping		equivalent names in the Target Dialect.
		In a scenario of using a source system, the user has an employee table, however, after
		translation the user wants to rename it as an employee, this can be done using this mapping file.
		However, uploading a Source Target Mapping file is an optional. If the user does not upload the Source Target Mapping file then all tables and views in the source are translated to Target Dialect with the same name.
		The same Source Target file has been created on the BigQuery.
Source Me	etadata	As a source metadata, you can choose, Extracted Dictionary or DDLs
		• Extracted Dictionary is a zip file and you can upload it. Zip file contains the structure of a database and the relationship between various elements such as tables DDLs, temporary tables, columns, views DDLs, and data types of the attributes. Contact Datametica to get the dictionaries.



	 DDL in which you need to upload the file which contains the DDL statements. Here, Raven
	automatically creates the Metadata file against the provided DDL.
Service Accour	nt Service Account Key contains the connection details such as Private Key to access Target
Кеу	Dialect, Project ID, etc.
	Service Account Key file helps to establish the BigQuery connection on the cloud. Once the Target Dialect (BigQuery) connection is established, the Raven validates the converted code in the BigQuery environment.

Steps :-

- Follow login steps as mentioned in <u>Getting Started</u>.
- Click on Setup menu. After clicking setup menu you will get Source-Target Mapping List screen.
- To add new Source target mapping, Click on Add Source Target Mapping

ource-larget Mapping List						Add Source T	arget Mapping +
Mapping Name 🍦		🖕 Target Dialect 👙 Val	idation Project Name 👙	Ŧ	Download	Edit	Delete
(s_again	leradata	HigQuery			* *	u.	U
gs 1	Teradata	BigQuery			± •	8	۵
sky_1	Netezza	BigQuery			<u>*</u> *	Z	Û
Sky_12	Netezza	DigQuery			<u>*</u> *	Z	ė
gs	Teradata	BigQuery			± +	Z	a
Sk_new	Netezza	BigQuery			± -	Z	Û
Sky	Netezza	BigQuery			± +	Z	Û
new_cs	leradata	HigQuery			* *	Lø 🖉	۵
CSSetupM	Teradata	BigQuery			± +	I	â
Macys_MicroExtra	Teradata	BigQuery			≛ +	Ø	Û

 In the Mapping Details section, Enter Mapping Name, and download or upload the sample template for the Source Target Mapping File. It is an optional task.

Field Description

Mapping details

Mapping name -> Enter the Mapping Name, they have to be in alphanumeric format.



 In the Source Details section, select Source Type e.g. Teradata, and Source Metadata Type e.g. DDLs or Extracted Dictionary. Additionally, upload the Source Metadata file and this is a zip file containing DDL files for preparing the Dictionary.

Source details

Source Type - > Select the Source Type from the drop-down list from either of the options Teradata

Source Metadata Type -> Select the Source Metadata Type from the drop-down list from either of the options DDLs or Extracted Dictionary.

Manping Details		Upload the Source target mapping file.
		Please refer the sample template provided.
Enter name for mapping		Source Target Mapping 0
		Optional (🕹 Download Temp ate)
Source Type *	Target Type *	
Source Details		
Source Netadata Type *		
DDLs Extracted Dictionary		Upbed Source Metacata 0*
Syntax Validation Workspace		

~	Cancel	Open File	۵	Open	loads × Udey - *
A Not secure https://localhost.8444/# Mapping Name 0* Enter name for mapping Source Type *	C Recent Home Desktop Documents	Image: Constraint of the second s	✓ Size 2.3 kB	Modified 28 Oct 11:39	nad Template)
Teradata Scurce Details	Downloadsの MusicD Pictures				
Source Metadata Type •	Videos SAMSU ▲ + Other Locations				×0 ⁴
Syntax Validation Workspace					

5. In the Syntax Validation Workspace. Upload **Service Account Key**. The Service Account Key is the service account JSON file to access the provided Test Project Name.

Syntax Validation workspace -

Enable BigQuery Synchronization

Source Parails	Target Type * BigQuery Environment Setup Progress	V		SUCCESS Successfully added new source target mappi
Source Details	BigQuery Environment Setup Progress	V		encounter! encounter acquee ou der undeb
Source Denails	Environment Setup Progress			
Source Details				
Source Betans	1 DDL Generation (2)	DDL Translation (3) Big Query Setup		
Source Metadata Type *	Generation of ddls from Sector and ddctionary	BigQuery equivalent dd transation of all objects in dictionery dictionery	Source Metadata	0.
		\frown	g 28072020.zip	
		0%		
Syntax Validation Workspace				
		Progress		
Enable BigQuery Synchronization ()	\		e Account Key ()	
	⊥ Environment Setup Result	⊥ Ordered Translated DDLs View Report C	lose mg-poc-snd-dee	-13-cad893ab5bcd (2).json

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6. Click on Setup Environment.

Source Details		
Source Metadata Type *		
DDLs 💿 Extracted Dictionary	Confirmation	Upload Source Metadata 0*
	Estimated number of RAVEN-Objects :	💾 new_mg_28072020.zip
	Please click on 'Agree" bit on to continue. If you choose to cancel "Petering of you choose to cancel" and the provide the petering of you choose to cancel the petering of you choose the petering of you choose the petering of you choose to cancel the petering of you choose the petering of you choose to cancel the petering of you choose to cancel the petering of you choose the petering of you choo	
Syntax Validation Workspace	will not be executed.	
	Canad	
Enable BigQuery Synchronization ()	Calice	Service Account Key 0
		4e dmgcp-rmg-poc-snc-dec-13-ead893abEbcd (2Ljson
		Setup Environment
n) datametica		© 2020 Datametica Solutions Pv; Ltd. All rights reserv
an datametica		© 2020 Datametica Solutions Pv: Ltd . All rights reserv
datametica IESI12a		© 2020 Datametica Solutions Pv; Ltd. All rights reserv
datametica IES112:	Target Type *	© 2020 Datametica Solutions Pv: Ltd . All rights reserv
ItS1122 Source Type *	Target Type * BigQuary V	© 2020 Datametica Solutions Pv: Ltd . All rights reserv
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datametica IES1123 Source Type * Teradata	Target Type * BigQuary V	© 2020 Datametica Solutions Pv: Ltd . All rights reserv
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	Target Type * BigQuery Confirmation Estimated number of RAVEN-Objects : 18837 P Please dick on "Ages" buttor to contine. If you choose to carel then larget Synchronization operation wil not be secured.	© 2020 Datametica Solutions Pv: Ltd. All rights reserv Optional () () Down cad Tempate () Uppord Source Metadate @* Prove_mrg_28072020 rap
Source Details Source Metadata Type * DD14 Petracted Detimonary Syntax Validation Workspace	Target Type * BigQuery Confirmation Estimated number of RAVEN-Objects : 18837 Please dick on "Agree" button to contine. If you choose to concil then large: Synchronization operation wil not be executed.	© 2020 Datametica Solutions Pv: Ltd - All rights reserv
Source Details Source Metadata Type * DD1 < Fitte Attached Dictionary Syntax Validation Workspace	Target Type * BigQuery Confirmation Estimated number of RAVEN-Objects : 18837 Please click on "Agree" buttor, to continue, if you choose to cancel then Target Synchronization operation wil not be seecutec. Cancel Agree	© 2020 Datametica Solutions Pv; Ltd. All rights reserv
Source Details Source Metadata Type * DD1s Fitewated Dictionary Syntax Validation Workspace The back of gQuery Synchronization 0	Target Type * BigOusry Confirmation Estimated number of RAVEN-Objects : 18837 Please click on "Agree" button to continue. If you choose to cancel then larget Synchronization operation wil not be executed. Cancel Agree	C 2020 Datametica Solutions Pv; Ltd. Al rights reserv
Source Details Source Metadata Type * DDI s Futnanted Dictionary Syntax Validation Workspace The big Query Synchronization O	Target Type * BigQuary Confirmation Estimated number of RAVEN-Objects : 18837 Please click on "Agres" buttor to continue. If you choose to cancel then large: Synchronization operation will not be secured. Cancel Agree	© 2020 Datametica Solutions Pro Ltd. All rights reserv © Optional ((), Down oad Tempate) © Upload Source Metadate 0* © newmg28077020 r/p Service Account Kay 0 4. dmgcp.rmg poc. snd. dec. 13-cad803ab6bad (2, joon
Source Details Source Metadata Type * DDI < Fatacted Dictionary Syntax Validation /Workspace The big gQuery Synchronization 0	Target Type * BigQuary Confirmation Estimated number of RAVEN-Objects : 18837 Please cicle on "Agree" battor to contine. If you choose to cancel then large: Synchronization operation will not be assessive. Cancel Agree	C 2020 Datametica Solutions Pro Ltd . Al rights reserv
Contraction Cont	Target Type * BigQuery Confirmation Estimated number of RAVEN-Objects : 18837 Please dick on "Ages" buttor to contine. If you choose cancel then Target Synchronization operation will not be secured. Cancel Agree	© 2020 Datametica Solutions Pro Ltd. Al rights reserv

5.2. Environment Setup Progress

This progress involves all three processes to accomplish the Setup Environment.

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- 1. Dictionary Creation: The dictionaries are created which can be used in the translation.
- 2. DDL Translation: DDL Translation validates the translated query into the BigQuery.

3. **Big Query Setup:** After dictionary creation and DDL translation all the script files are validated so that they can be used for Translation.



5.3. Environment Setup Progress

This progress involves all three processes to accomplish the Setup Environment.

- 1. Dictionary Creation: The dictionaries are created which can be used in the translation.
- 2. DDL Translation: DDL Translation validates the translated query into the BigQuery.

3. **Big Query Setup:** After dictionary creation and DDL translation all the script files are validated so that they can be used for Translation.



5.4. Setup Environment output files include:

5.4.1. Environment Setup Result-

This file displays the list of entities that are successfully created and the entities that are not created in the BigQuery environment.

Ordered Translated DDLs- This file displays the DDL statement and the order in which they are created.

5.4.2. Extracted Dictionary

Extracted dictionary contains information about database objects such as tables, indexes, columns, data types, and views. When you select Extracted Dictionary the Default Database and Default Schema changes to view-only mode. The translation process needs a BigQuery environment for creating the tables and if those tables are missing then the translation process identifies. To get the directories contact Datametica.

The reports are generated in the form of Excel. To view the output, download it from Environment Setup Result and Ordered Translated DDLs. The Environment Setup Result. This includes the list of tables that are created and failed in the BigQuery environment. The categorization is based on two sets Raven and customer based. Since, the dictionaries are already available and the Extracted Dictionary option was selected, the DDL Translation and Big Query Setup are proceeded.

5.4.3. DDL Statements

When there is no Processed Dictionary then DDLs are used for the Setup environment. The DDLs are considered in the Teradata or Netezza and the created statements are available for the table information. You can upload all the zip files of create statements.

This process takes an extra step of creating the Processed Dictionary by using the DDL statements. Hence, it will proceed with Dictionary Creation, DDL Translation, and Big Query Setup.



The report provides the details of Total DDL, Converted DDL, Partially Converted DDL, and Failed DDL. This report gives the successful tables created which shall be managed in a Big Query. The other report is about the sequences of DDL statements created. In Ordered Translated DDLs shows the results of all the sequences of DDL statements that are created. DDL Statements.

5.5. Downloading Dictionary

Downloading Dictionary allows you to download the different dictionaries that include tables, views, macros, columns, and so on.

- Login -> Setup -> Source Target Mapping List
- To download Dictionary, click on the downloading icon in the Dictionary column

(aucn ie transformer DASHBOARD	ADMINISTRATION SETUP	TRANSLATE				superuser 👻
ource-Target Mapping List					Add Source	Target Mapping +
Mapping Name 😄	To Source Dialect	😄 🛛 Target Dialect 👙	Validation Project Name 😄	= Dow	mload Edit	Delete
SomaCSTest	Teradata	BigQuery		¥	• 02	Ū
Nordia_Test1	Teradata	B gQucry			\pm Download ordered DDLs	
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Test_3718_RMG	Teradata	BgQuery		¥	· · ·	â
					16.10.10.10.10	- 1 - 1 - 1 (-

5.6. Editing Source Target Mapping

In Raven, to edit previously created Mapping Name of relevant the Source Target Mapping,

- Login -> Setup -> Source Target Mapping List.
- Click on the editing icon in the Edit column.



Raven DASHBOARD ADMINISTRATION	SETUP TRANSLATE			superuser s	iperuser • (
Source-Target Mapping List				Add Source Target Mapp	~ 🛨
Mapping Name 🛫 😵	urce Dialect 🚊 Target Dialect 🚊	Test Project Name 🛫	· Dictionary	Edit Del	ete
Deno te	adata BigQuery	datametica-marketplace-dev	۵	e (
Test2020 to	adata BigQuery	demo.first_123	۸	R 1	
on detametica				© 2020 Datametica Solut	ions Pvt Ltd
Raven De The preserve dasheddard administration	SETUP TRANSLATE			supervs	er superuser 🍝
 Edit Source Target Mapping Mapping Details 					
Mapping Name * Tam piu, Mapping, dame		Download Template Option al	L	Source Target Mapping File Optional	

5.7. Deleting Source Target Mapping

In Raven, to delete mapping and associated batches of relevant the Source Target Mapping.

• Login -> Setup -> Source Target Mapping List.

- Click on the deletion icon in the Delete column.
- The system displays a confirmation dialog box.
- Click on Yes for deletion.



C. THE TRANSFORMER DASHBOARD	ADMINISTRATION	SETUP TR	ANSLATE				supen	uter superuser 🔹	0
Source-Target Mapping List							Add Source Target	Mapping 🕂	
Mapping Name	Ŧ	Source Dialect	Target Dialect 🛫	Test Project Name 🙄	Ŧ	Dictionary	Edn	Delete	
Demo		teradata	BigQuery	datametica-marketplace-dev		*	C2		
Test.2020		teradata	BigQuery	demo.first_123		۸	12		

(?)	Do you want to delete this mapping?	
	Cancel Yes	



6. Translate

To accomplish the translation process you have to go through three steps -

- Translate
- Analyze
- Report

	Raven Hetransformer DASHBOARD	ADMINISTRATION S	ETUP TRANSLATE	U Loacing					superuser - 🔗
⊘	Database Mapping : TEST 1	123				Q. Search for m	apping name		New Translation
	TEST123		Batches						
	Source	Teradata	Batch Name	Total Total Files Stateme	Total ts Objects	Objects Translated	Translated By	Translation Start Time	View Translation Report
	Target	BigQuery			,				
	Validation Project	dmgcp-rmg-poc-snd-dec-13							
	Source Target Mapping File	No data							
	Batches	0							
	Objects	0				No D	ata		
ଡ ତ ତ	Database Mapping : TEST Database Mapping : TEST_ Database Mapping : TEST_	NEW1 12							
⊘	Database Mapping : RMG_	TEST							
Ø	Database Mapping : fts								

6.1. Translation Process

Raven translates the input scripts from source dialect to target dialect. To start the translation, select source dialect, target dialect, and dictionary. Even the user can provide value for the various parameterized variables that are used in the query script files. The Translate screen displays all the variables present in the script, the has to categorize them as per the requirement. However, providing value for these variables is optional. The screen analyses the tables and views, which are not present in the dictionary.



TEST123	mapping . r cori	123	Batches				⊲ cearcr10	mappelly ridfile		New Iranslation
Source		Teradata	Batch Name	Total	Total	Total	Objects Translated	Translated By	Translation Start Time	View Translation
Target		BigQuery		Thes	Statements	objects	Translated			
Validation	Project	dmgcp-rmg-poc-snd-dec-13								
Source Ta	rget Mapping File	No data								
Batches		D								
Objects		D					No	Data		
) Database) Database) Database	Mapping : TEST Mapping : TEST_ Mapping : TEST_	NEW1 .12								

Source section consists of:

• Source Dialect- This field displays two options namely, Teradata

• **Mapping Name-** This is the **Source Target Mapping** created during the dictionary source setup environment process.

• **Target Dialect**- This field is to the target destination source for translating to the Big Query (Default).

• Big Query Project Name- This is a mandated field that requires the Big Query project name.

• Validate Translated Scripts- Selecting this option allows validating the translated queries in the Big Query environment. If you de-select this will not validate the scripts in the Big Query environment.

• **Target Advance Options**- An icon that displays the Target Advance Options requiring Big Query Data File Format, Big Query Data File Base Path along with the two toggle options:

Note:

Print fully qualified entity and Use Safe Cast. These toggle options enable printing entities in fully qualified form and the **use safe_cast function** instead of the **cast function** in translated BigQuery Script.

Input Query Script/Files -

Upload Files



- Upload Directory
- Paste Queries

In Translate, the input script is translated from Source Dialect to Target Dialect. You need to select **Source dialect, target dialect, and Source Target Mapping dictionary**. You can provide value for the various parameterized variables that are used in the query script files. The Translate page displays all the variables present in the script, the user can categorize them as per the requirement. However, providing value for these variables is optional.

Translate screen analyses the tables and views which are not present in the dictionary. Here, the user has an option to include/exclude those scripts or SQL statements from being translated. The screen displays the details of the missing entities, total statements, and a number of statements that can not be translated successfully if the particular script has opted for translation.

Input Information		
Batch Name 😆 :	Please Enter Batch Name	Upload Files Upload Directory Paste Query
• Source Target Mapping 🟮:	Flease Select Dictionary Source $\qquad \lor$	
* Target Project Name:	Please Enter Target Project Name	
Validate Translated Scripts 🕒 :		Drag and Drop SQL scripts / files / zip files here or Click to browse from your computer
	Target Advance Options >	▲ Please select "Source Target Mapping" before uploading files
Variables Identified with Scrip	its	



Applications 👻 🌍 Google Chrome 👻			Thu Nov 12, 12:02:49		😨 🌒 🖌 100% 🛩
Mordea DDL and Jso × 🖉 Raven_All_Client_C	🔿 🗙 🚹 DataStage - G	Cancel	Open Files	Q Open	anslate × 🗶 Downloads × 🖉 🕅 🕅 🖉 = 😐 ×
← → C ▲ Not secure https://local.host:B444/#/ti	ranslate/new-translation	G Parami	A Auda: warman Document	Tosting dos	x 0 :
and Raven		O Recent	Mame	Size Medified	
THE TRANSFORMER DASHBOARD AD	MINISTRATION	Desktop	AHDCLCOL LECT_STATS	1.3 kB 9 Cct 38 1 MB 11:40	
< Book		Documents	Dictionary-20201110T06092	5.1 MB Tue	INPUT (2) ANALYZE (3) TRANSLATE
⊘ Input Information		↓ Downloads	INSERT_BDM_MISSING_RE INSERT_BDM_MISSING_R	177.8 kB Yesterday 4.9 MB Tue	
		Ja Music	anew_rmg_28072020.zlp	5.1 MB Mon	
Batch Name 🔁 :	ABCD	Pictures	in NORDIA TEST DATA	11:41	aste Query
* Source Target Mapping 🚯:	TEST123	▶ Videos	Scripts-20201109T1139477 Scripts-20201109T1139477	27.6 kB Mon Tue	
* Target Project Name :	datametica-marketpla	a samsu ≜	📄 Variable.sql	333 bytes 10:33	
Validate Translated Scripts 🔁:		+ Other Locations			p SQL scripts / files / zip files here to browse from your computer
	Target Advance Options				
Variables Identified with Scripts					Next
				Custom Files 🕶	
💿 InfoSphere DataStage 💿 Raven Translate - Go	🔃 mig - application	n.prop 📴 [DDLS]	📳 Testing doc	📔 [uday.wam	an@DM58) 💿 Share your new meeti 🕼 [DBeaver 6.1.2 - <net 1="" 2<=""]="" td=""></net>

Analysis - In Analysis, the input files which the user provides shall do a detailed analysis and if any syntax errors found, those are separated. So those files are analyzed to verify the syntactical errors and missing tables, Additionally, it analyzes the insight of the file and provides user brief detail on the file. If there is any missing entity information related to the queries, then details will be shown to the users.

Once the analysis is complete, a table is generated displaying the detailed script information such as **Script Name- Name of the SQL file. Missing Tables / Views- Missing object information** in a number of missing tables or views.

Total Statements- Number of statements. Impacted Statements- Number of impacted statements due to the missing tables.

The syntactical errors aren't displayed in the table. The user has an option to include/exclude the scripts or SQL statements from being translated.



Summary of input

The report contains the following database translation output results:

Total files: - Number of files uploaded

All set- No of translate files

Manual intervention - Number of manual inputs carried out from the end user

Syntactically incorrect - No of files having parsing issue and syntax error

Insufficient Metadata - Number of files in which ddl or dictionary are missing

Estimated object count - the number of scripts in a file.

1 Total Files	0 All Set	0 Manual Interver	ntion Required	0 Syntactically Incorre	1 ect Insufficient Metadata	7 Estimated Objects Count			
DB entities and c	ount	Partial: Default [Database Requir	red			1	Z Bulk Input	Validate C
Database Entities	Count	File Name 💠	Select Default	Database 🍦	Missing Tables / Views 💲		Total Statements 💲	Impacted Statem	ents 🛟
Table	0								
Views	0								
Multi-SQL	0								
BTeq	0					No Data			
Macro	0								
Stored Procedures	1								
Note: "dm_schema	a" is the default	schema for all the scrip	its that does not ha	ave any sql statements v	with tables or views		Agree	e TRANSLATE	CANCEL



C A Not secure https://34	1.121.192.41:8443/#/t:anslate/new-translation					\$ 0
	stg_tgt_fi_dealer_quote.bteq	IDW_PUBLIC	SIDW_SCHEMA FL_DEALR_QUOTE_T_TEST	4	1	
	_idw_sig_f_order_s2.biteq	IDW_PUBLIC	SREPORTS_SCHEMALDATE_DM_1 SREPORTS_SCHEMALORDER_1 SREPORTS_SCHEMALORDER_1 SREPORTS_SCHEMALITEM_ISS_TM_1 SREPORTS_SCHEMALSECURITY_PROD_CU_ROLLOP_1	10	1	
	crs_ox_brkrg_acct_c:_eurr.bteq	IDW_PUBLIC	SDB_IDW.OX_ACCT_T	57	2	
	t_stg_tgt_fi_dealer_quicte.breq	IDW_PUBLIC	# \$STG_SCHEMA.FI_SCHWAB_QUOTE_S	9	1	
	t_stg_idw_trade_fix_inbnd_msg_doe_sia_algo.bteq	IDW_PUBLIC		R_1 28	4	
	Lslg0_slg1_f_uade_exec.bleq	IDW_PUBLIC	Imisreports_schemalitem_iss_ttm_1 Imisreports_schemalisec_prod_cd_rcllup_1 Imisreports_schemalisec_prod_cd_rcllup_1 Imisreports_schemalisec_prod_cd_rcllup_1 Imisreports_schemalisec_prod_cd_rcllup_1 Imisreports_schemalisec_prod_cd_rcllup_1	12	1	
	t_src_stg_inset_acct_dim.bteq	IDW_PUBLIC	IIII SREPORTS_SCHEMAAUCI_ASSUN_1 IIII SREPORTS_SCHEMASI_ADV_MSTR_1 IIII SREPORTS_SCHEMASI_FRM_ADV_1 IIII SREPORTS_SCHEMACUST_TRADE_ACCT_1	6	1	
						< 1 2 >
				V I Agree	TRANSLATE	CANCEL
dm datametica			(© 2020 Datametica	a Solutions Pvt Ltd . All	I rights reserved.

Reports - The Translation results are displayed in the statics manner with the different parameters such as total translated files, partial, failed, and rejected file count, object stats, exception stats, translated and failed SQL statements (DDL, DML), and programming constructs BETQ, The below sections are displayed in the reports that describe a complete analysis. The reports can be downloaded in one click.

Translation Report	Translation Progress	• • •
Files		
TOTAL FILES > TRANSLATED PARTIAL		- Objects Translated
Statements		
TOTAL	Finished Processing	FAILED
	View	Report
		🗠 Report a bug Perform Another Translation

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Translation Report		VI	🤡 ANALYZE 🧭 TRANSLA
Files 27 TOTAL FLES > TOTAL FLES 12 PARTIAL FAILED	7 👍 REJECTED	Objects 490 331 Total Objects > Objects Translate	ed
Statements	TOTAL	TRANSLATED	FAILED
- Total Statements	387	351	31
- Sql Statements	151	120	31
Table DDLs	30	26	4
Views DDLs	0	0	0
DMLs	120	93	27
Others	1	1	0
Programming Statements	236	231	0
BTEQ Scripts	231	231	0
Procedures	0	0	0
Macros	0	0	0
Out of Scope	5	0	0

iles				Objects		
27 L 8 L TOTAL FILES > TRANSLATED	12 (1) PARTIAL	0	7 (1) REJECTED	490 Total Objects >	331 Objects Translated	
itatements		🖾 Report a bug	I			
						FAILED
- Total Statements		Please downloa	ad attachment using the down	oad button and email it to		31
- Sql Statements			Datametica support	•		31
Table DDLs						4
Views DDLs			Dowr	iload Report 土 Cance		0
DMLs			120	33		27
Others			1	1		0
Programming Statements			236	231		0
ETEQ Scripts			231	231		0
Procedures			0	0		0
Macros			0	0		0
Out of Scope			5	0		0
					🖾 Report	a bug Perform Another Translation

6.2. Translation Process execution

About the task, this task shall process the translation of scripts from source to target.

Prerequisites

Ensure that the Dictionary Source is available.



Steps

- 1. Follow the log in steps in Getting Started.
- 2. Click on Translate

Back ⊙ In	out Information		_	No va Pleas INPUT	riables detected in the filas to be translat e click on the "Next" buttor to proceed r
	Eatch Name ():	ABCD		Upload Files Upload Directory Paste Query	
	 Target Project Name : Validate Translated Scripts (). 	dafametica-marketplace-dev		Drag and Drop SQL scripts / files / zip files i or Click to browse from your computer	iere
		Target Advance Options >		Uploaded Files: 1 Files Remove All Files Edit	
⊙ Va	ariables Identified with Scripts			Supported Variable Pattern	s: Sxyz S{xyz} xyz #xyz#
	Variable Name 🖕	् Script Name 🖕		o, Required/Optional 🍵 Value	Variable DataType
				No Data	

To initiate translation:

- a. Select Dictionary Source in the Source section
- b. Enter Default Database and in the Target section enter Big Query Project Name.
- c. Select the Validate Translated Scripts.
- d. Click or Drag SQL script or files.
- 3. Click on Next.

4. In the Variable Explore the list of variables is displayed that are available in the input script files. You need to enter the value of the respective variable. In the case of a parameterized table it is mandatory to assign value, for other objects such as database, schema, and column it is optional. Click on Next.

Note:

A selection of value and data type is optional for parameterized expression and schema variable but mandatory for the parameterized table. 5. In Analyze, it analyses the tables and views which are not present in the dictionary. You have options to include or exclude the scripts or SQL statements from being translated. The user can translate SQL scripts with or without these entities. Select the Include in Translation those should include the respective script in the translation



6. Click on Download

To download the script files that have syntactical errors. Raven counts those files in rejected after translation.

7. Click on Translation and, then, click on View Report.

Batch Name 🚯 :	ABCD		Upload Files	Upload Directory Paste 0				
t Course Termst Manufact Co	TERTADO							
• Source larget Mapping 0:	1251123	¥ 1						
* Target Project Name:	Target Project Name: datametica-marketplace-dev			Drag and Drop SCL scripts / files / zio files here				
Validate Translated Scripts 0:				or Click to br	cwse from your co	omputer		
Variables Identified with Sci	Target Advance Options >		Uploaded Files:	1 Files Remove All Files	Edit Supported Variable	Patterns: \$xyz	\$(xyz) :xyz #xyz#	
Variables Identified with Sci Variable Name 🜩	Target Advance Options > ripts Q. Script Name ÷		Uploaded Files:	1 Files Remove All Files	Edit Supported Variable 🝷 Value	Patterns: Şxyz	S(xyz) xyz #xyz# Variable DataType	
Variables Identified with Sci Variable Name ÷ SD	Target Advance Options > ripts Q Script Name © (Variable sal)		Uploaded Files:	1 Fies Remove All Files	Edit Supported Variable T Value Please Ert	Patterns: Sxyz (S(xyz) xyz #xyz# Variable DataType Please select V	
Variables Identified with Sci Variable Name SD	Target Advance Options > ripts Q. Script Name (Vertable.sal)		Up/oaded Files:	1 Fies Remove All Files	Edit Supported Variable Value Please Ert	Patterns: Sxyz	S(vyz) xyz Xyz8 Variable DataType Please select V	
Variables Identified with Sci Variable Name ¢ SD	Target Advance Options > ripts Q Script Name \$ Variable.sql		Up/oaded Files:	Fies Remove All Files Required/ Optional optional	Edit Supported Variable Value Please Ert	Patterns: Swyr (S(xyz) syyz #xyz# Variable DataType Please select V	
Variables Identified with Sci Variable Name ¢ SD	Target Advance Options > ripts Q Script Name : Vertable.sat		Up oadad Files:	1 Fies Remove All Files	Edit Supported Variable Y Value Pleace Ert	Patterns: Svyz (er Varizble Välue	S(xvz) xvz Rvyz# Variable DataType Rease select V Next	

\sim	
0% Metadata Undatad	- Objects Translated
	FAILED
ViewF	Report
	🗠 Report a bug 🛛 Perform Another Translation
	0% Metudata Updated

