



CloudMiner

User Guide

Details and instructions to get started with CloudMiner

cloudminersupport@ritesoftware.com

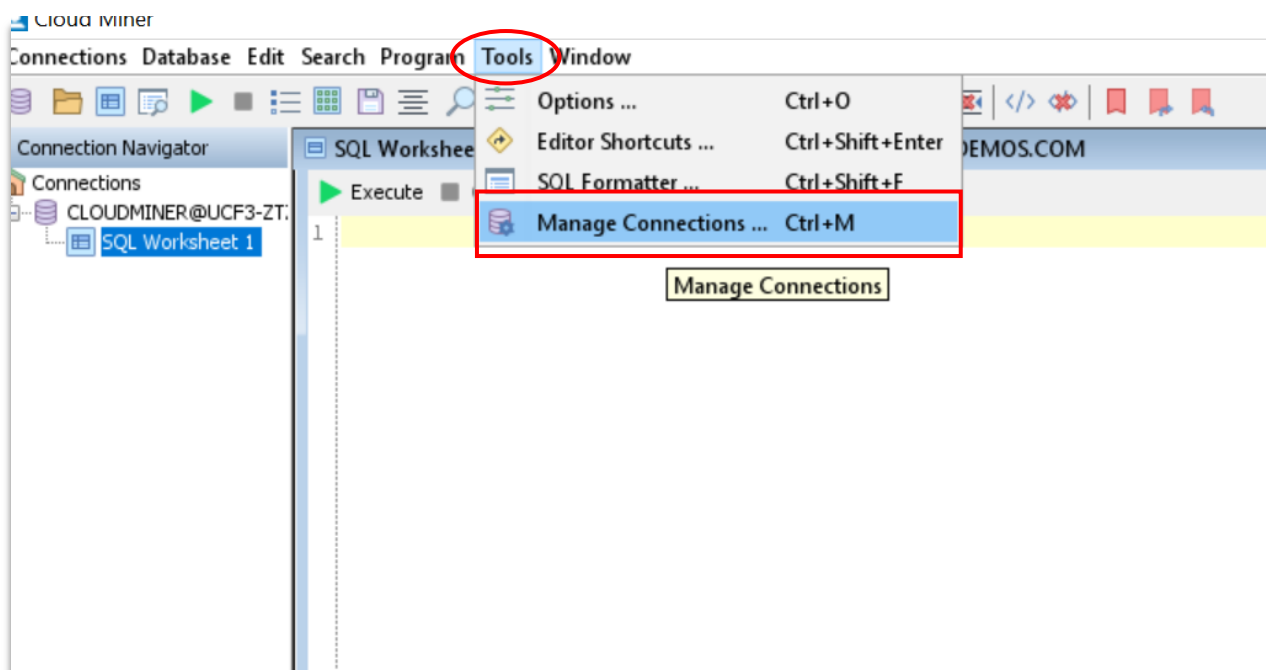


Table of Contents

1. Setting Up Your Connection.....	3
2. Logging In.....	5
3. Executing a Simple Query.....	6
3.1. Showcase: Syntax Highlighter.....	6
3.2. Modifying the Number of Rows Displayed	6
3.3. Quick and Easy: Execute	6
3.4. Results Panel	7
3.5. Execution Time Details.....	7
3.6. Transpose View.....	7
4. More Features	8
4.1. Searching for Text Within the Results Panel.....	8
4.2. Finding Columns	9
4.3. Exporting to Excel & CSV.....	9
4.4. Exporting to Delimited Text	11
5. The Smart Code Editor.....	12
5.1. Shortcut Typing	12
5.2. Shortcut Editor.....	14
5.3. Bind Variables	16
5.4. Smart Code Editor: Quick Database Object Name	17
5.5. Smart Code Editor: Quick Database Package Function Helper.....	17
6. Database Object Details.....	18
6.1. Browsing Database Objects	18
6.2. Quick Describe Table	19
6.3. View Definition.....	20
6.4. Package Specification	21
7. Multiple POD Connections, Worksheets, and Queries.....	23
7.1. Multiple Queries in One Sheet	23
7.2. Multiple Worksheets	24
7.3. Multiple Connections	25
8. History of Executed Queries.....	25
9. Appendix	26
9.1. Installing the Shortcut Commands File.....	26

1. Setting Up Your Connection

On the toolbar, select **Tools** → **Manage Connections**



Once the Manage Connections pop-up window opens, click on **New Connection**.

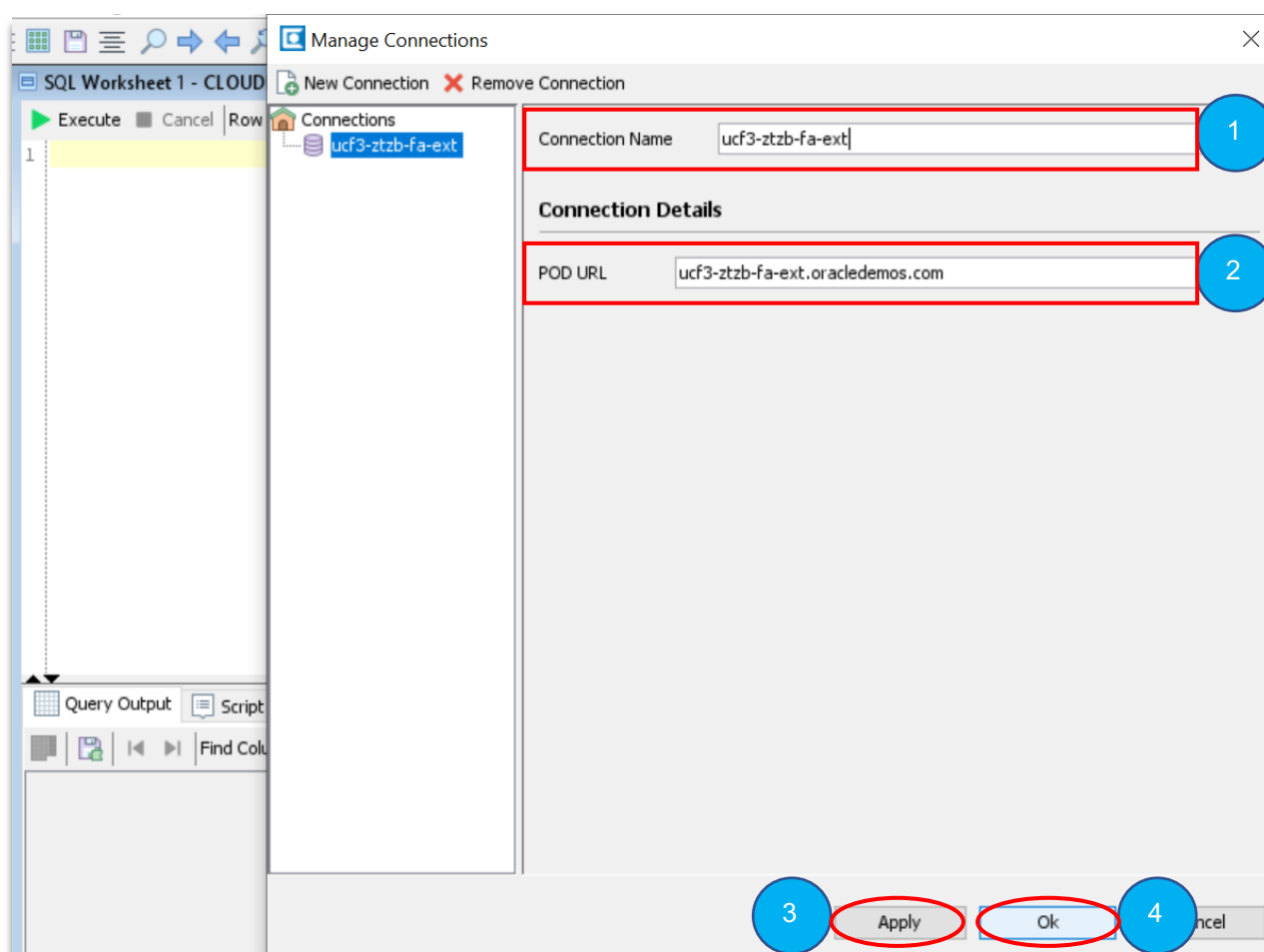
Enter your connection details:

Connection Name: This can be any user defined name that is entered without spaces.

POD URL: Please note that you should not enter the **https://** part of your URL (e.g. pod-URL.com and NOT https://pod-URL.com)

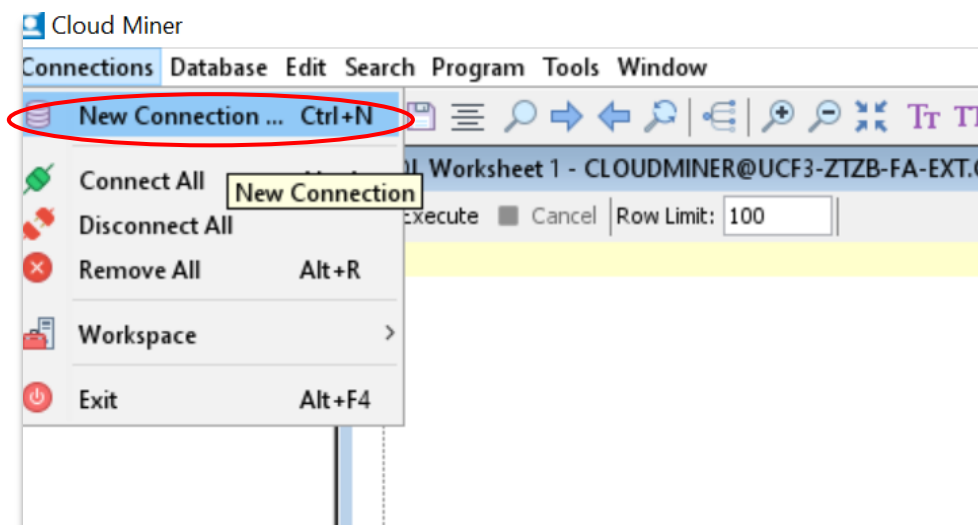
Click on the **Apply** button to save your connection.

Then click on the **Ok** button to exit the Manage Connections window.



2. Logging In

From the toolbar, select **Connections** → **New Connection**.



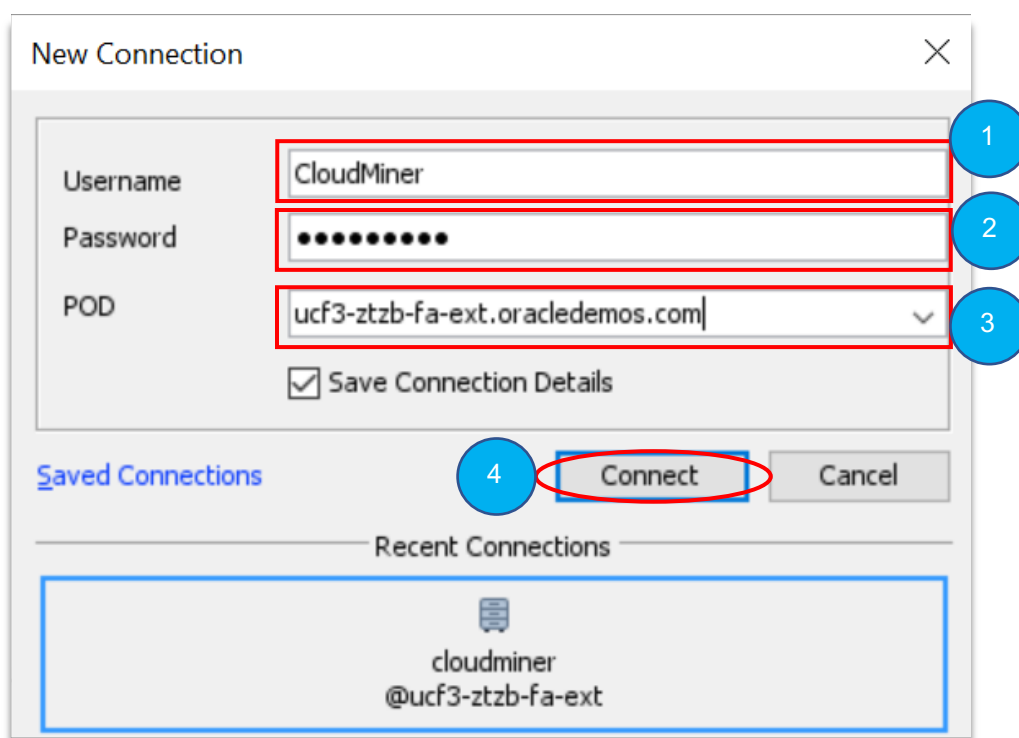
On the New Connection window, enter the following details to connect to your Oracle SaaS POD:

Username: <Cloud POD username>

Password: <Cloud POD password>

POD: Select from the dropdown of PODs from the connection(s) which you have setup.

Click on the **Connect** button.



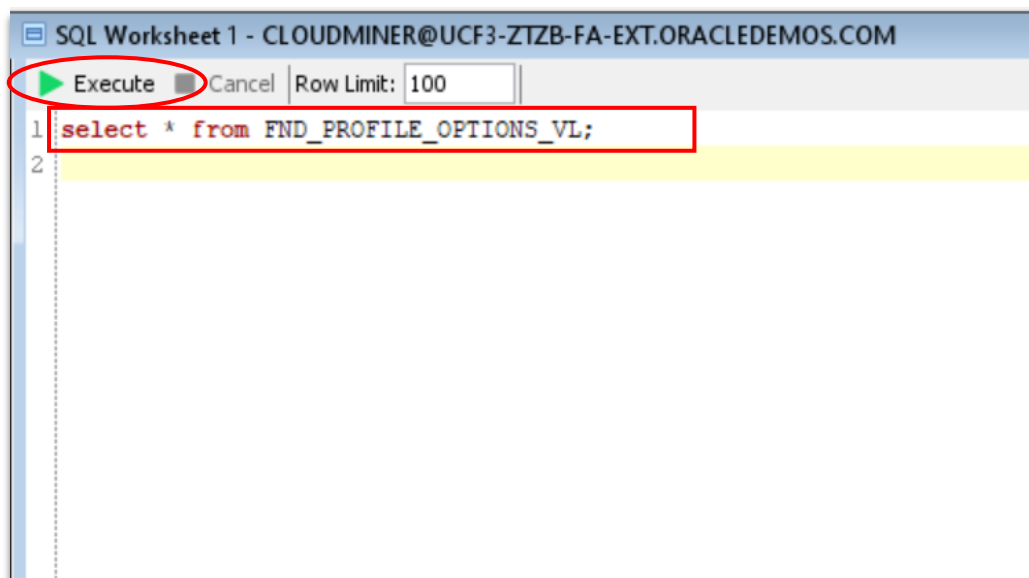
3. Executing a Simple Query

On the Worksheet, type in the following query:

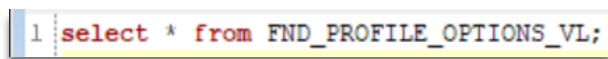
```
select * from FND_PROFILE_OPTIONS_VL;
```

Highlight the query text with your mouse.

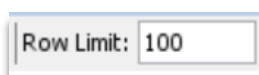
Click on the **Execute** button to fetch the results of the query.



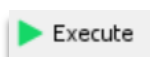
3.1. Showcase: Syntax Highlighter



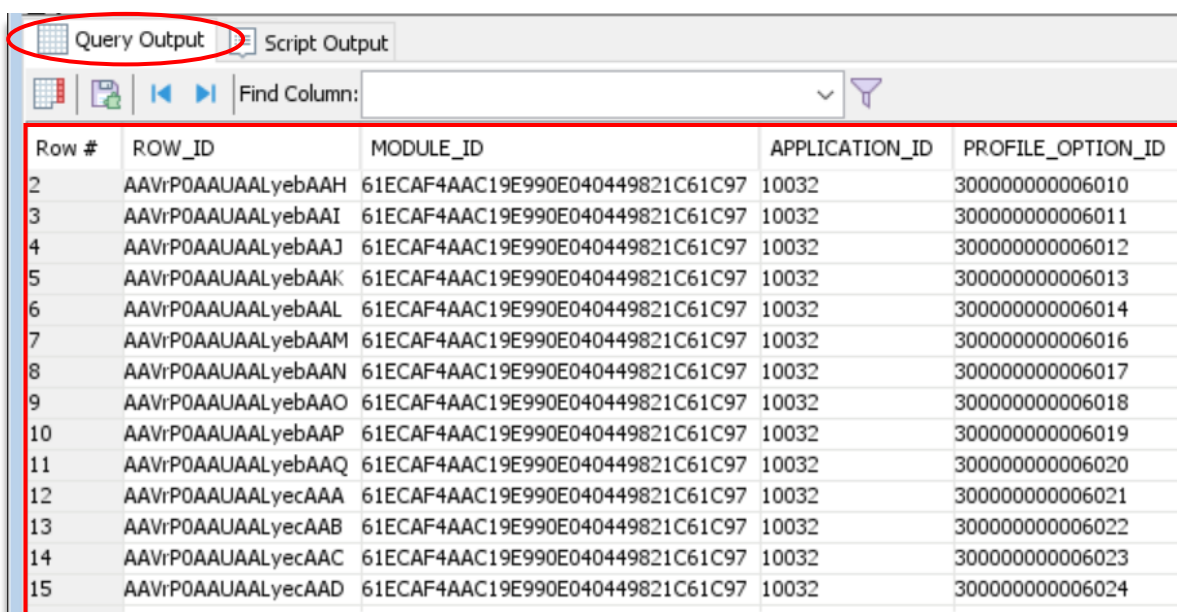
3.2. Modifying the Number of Rows Displayed



3.3. Quick and Easy: Execute



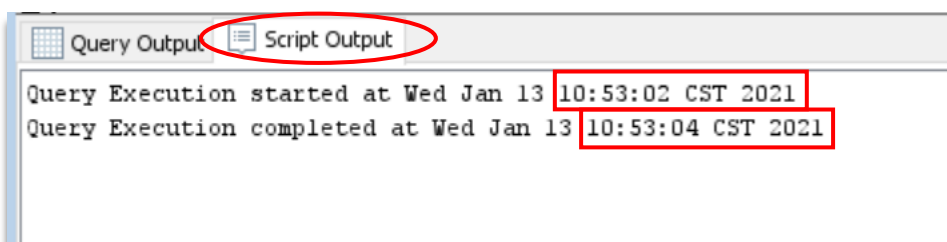
3.4. Results Panel



Row #	ROW_ID	MODULE_ID	APPLICATION_ID	PROFILE_OPTION_ID
2	AAVrP0AAUAALyebAAH	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006010
3	AAVrP0AAUAALyebAAI	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006011
4	AAVrP0AAUAALyebAAJ	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006012
5	AAVrP0AAUAALyebAAK	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006013
6	AAVrP0AAUAALyebAAL	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006014
7	AAVrP0AAUAALyebAAM	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006016
8	AAVrP0AAUAALyebAAN	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006017
9	AAVrP0AAUAALyebAAO	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006018
10	AAVrP0AAUAALyebAAP	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006019
11	AAVrP0AAUAALyebAAQ	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006020
12	AAVrP0AAUAALyebAAA	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006021
13	AAVrP0AAUAALyebAAB	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006022
14	AAVrP0AAUAALyebAAC	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006023
15	AAVrP0AAUAALyebAAD	61ECAAF4AAC19E990E040449821C61C97	10032	300000000006024

3.5. Execution Time Details

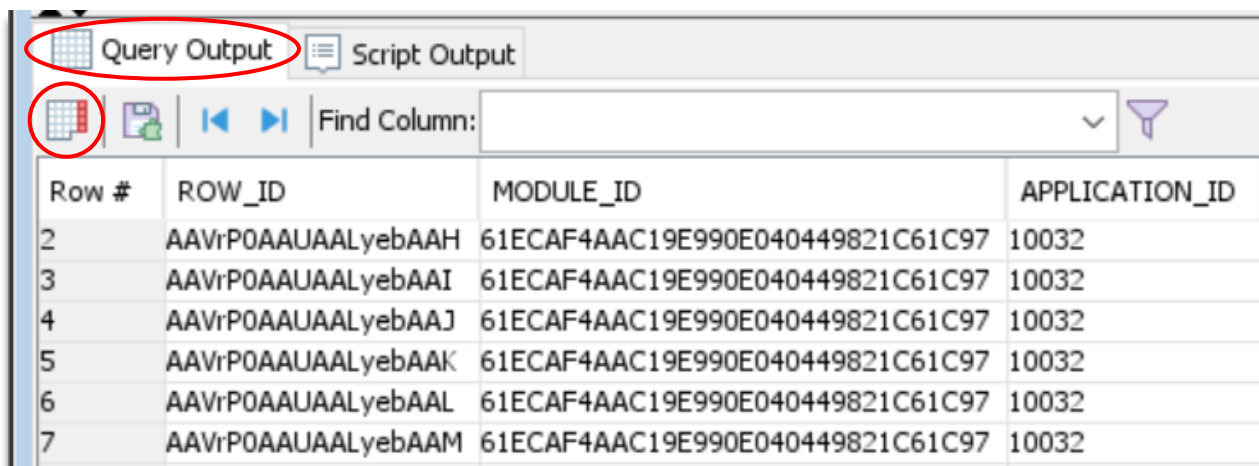
Clicking on the **Script Output** tab in the results panel will show the amount of time taken to pull the query took and format results.



Script Output
Query Execution started at Wed Jan 13 10:53:02 CST 2021
Query Execution completed at Wed Jan 13 10:53:04 CST 2021

3.6. Transpose View

Back on the **Query Output** tab, click on the **Single Record View** button to transpose the tabular view to the single record view.



Row #	ROW_ID	MODULE_ID	APPLICATION_ID
2	AAVrP0AAUAALyebAAH	61ECAAF4AAC19E990E040449821C61C97	10032
3	AAVrP0AAUAALyebAAI	61ECAAF4AAC19E990E040449821C61C97	10032
4	AAVrP0AAUAALyebAAJ	61ECAAF4AAC19E990E040449821C61C97	10032
5	AAVrP0AAUAALyebAAK	61ECAAF4AAC19E990E040449821C61C97	10032
6	AAVrP0AAUAALyebAAL	61ECAAF4AAC19E990E040449821C61C97	10032
7	AAVrP0AAUAALyebAAM	61ECAAF4AAC19E990E040449821C61C97	10032

You can navigate between result rows using the navigation buttons (located to the left of the **Find Column** field).

Query Output		Script Output
		Find Column:
Row#: 1		
ROW_ID	AAVrP0AAUAALyebAAB	
MODULE_ID	68AF5B001CDEDCF2E04044985FC6054E	
APPLICATION_ID	0	
PROFILE_OPTION_ID	300000000002357	
PROFILE_OPTION_NAME	FND_EFF_ADVANCED_FEATURES	
USER_PROFILE_OPTION_NAME	Extensible Flexfield Advanced Features	
HIERARCHY_NAME	DEFAULT	
USER_ENABLED_FLAG	N	
USER_UPDATEABLE_FLAG	N	
SQL_VALIDATION	select meaning, lookup_code from fnd_lookups where lookup_type = 'YES_NO'	
START_DATE_ACTIVE	1951-01-01T00:00:00.000+00:00	
END_DATE_ACTIVE		
DESCRIPTION	Enable advanced features for Extensible Flexfields	
CREATION_DATE	2013-08-08T04:01:13.000+00:00	
CREATED_BY	SEED_DATA_FROM_APPLICATION	
LAST_UPDATE_DATE	2020-09-18T19:01:10.363+00:00	
LAST_UPDATED_BY	SEED_DATA_FROM_APPLICATION	
LAST_UPDATE_LOGIN	-1	

4. More Features

On the Worksheet, type the following query:

SELECT * FROM HR_LOOKUPS WHERE TAG IS NOT NULL;

Using your mouse, highlight the query you typed.

Click on the **Execute** button to fetch your query results.

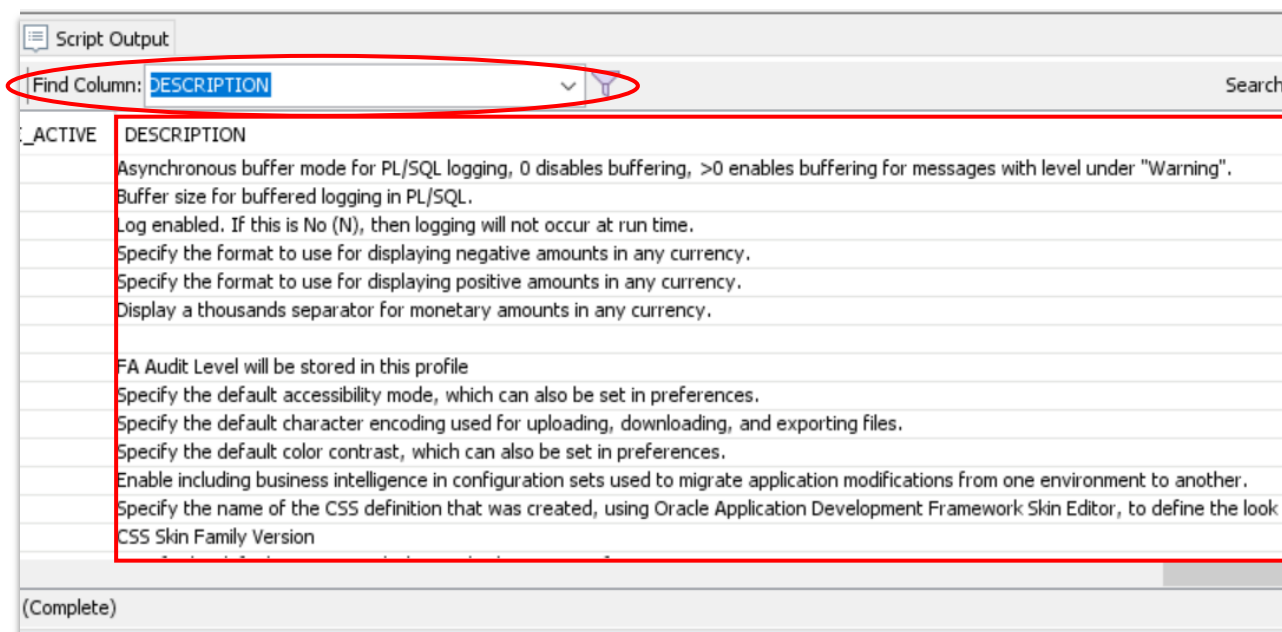
4.1. Searching for Text Within the Results Panel

In the results panel, use the **Search Text** input field and type in characters (e.g. PER, BEN, etc.) to help you filter your results for matching text.

Search Text: per			
APPLICATION_ID	PROFILE_OPTION_ID	PROFILE_OPTION_NAME	USER_PROFILE_OPTION_NAME
10032	300000000006024	MOO_OPTY_SRCH_DFLT_CLS_PERIOD	Opportunity Search Close Period Default
10032	300000000006026	MOO_OPTY_SRCH_DSQUERY_PERF_ENABLED	Opportunity Search High Performance De
101	300000000009031	GL_RECORDS_TO_PROCESS	Journal Import Records to Process at On
10097	300000000009155	HRG_ENABLE_OUTCOMES	Performance Goal Target Outcomes Enal
10097	300000000009159	HRG_ENABLE_TASK	Performance Goal Tasks Enabled
101	300000000009007	GL_DRM_API_ADAPTER_URL	GL: DRM API Adapter URL
101	300000000009009	GL_DRM_HIER_EXPORT_PROP	GL: DRM Property to Allow Hierarchy Exp
101	300000000009010	GL_DRM_VALUE_SET_PROP	GL: DRM Property for Value Set Name
101	300000000009012	GL_DRM_VER_EXPORT_PROP	GL: DRM Property to Allow Version Expor
101	300000000009013	GL_ESSBASE_BUFFER_ID	Essbase Buffer ID
101	300000000009016	GL_GLPOS_AVGBAL_POST_WORKERS	Number of Average Balance Post Worker
0	300000000001647	FND_DECIMAL_SEPARATOR	Default Decimal Separator

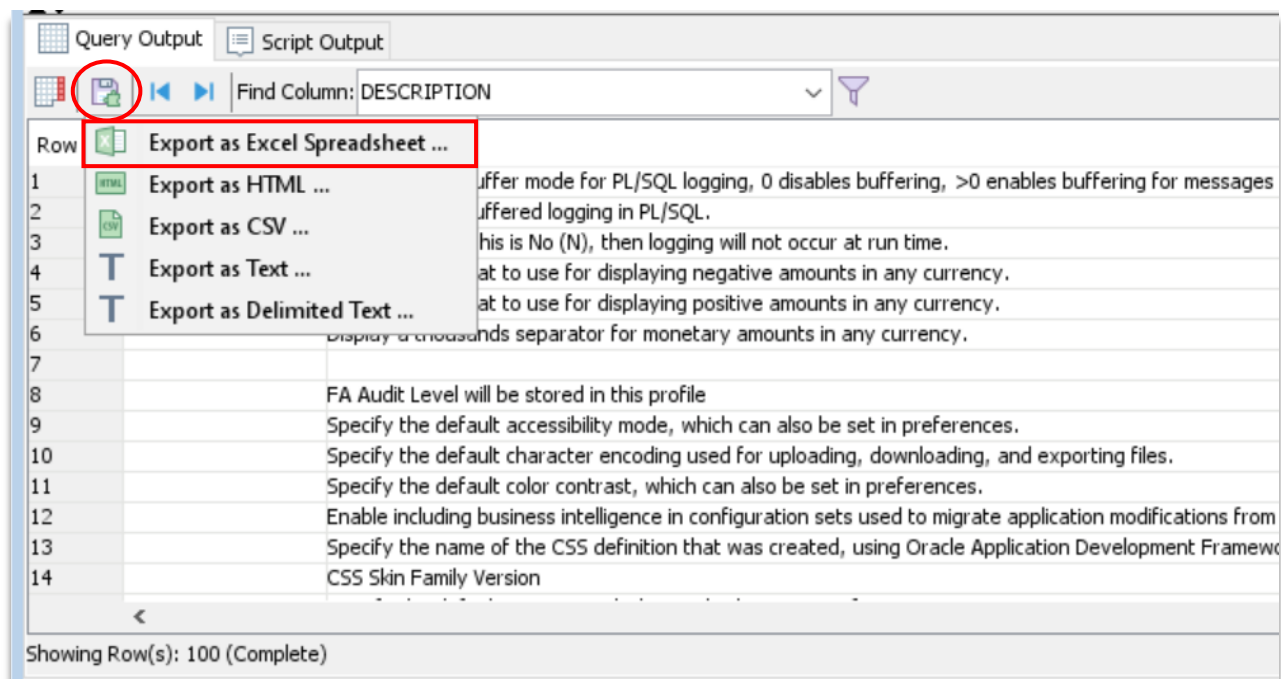
4.2. Finding Columns

On the results panel, click on the **Find Column** dropdown and select the **DESCRIPTION** column; hit the **Enter** key. The results table below will adjust to make the **DESCRIPTION** column visible on your screen.

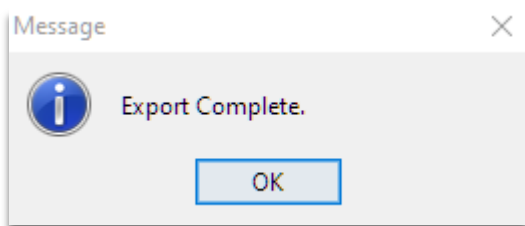
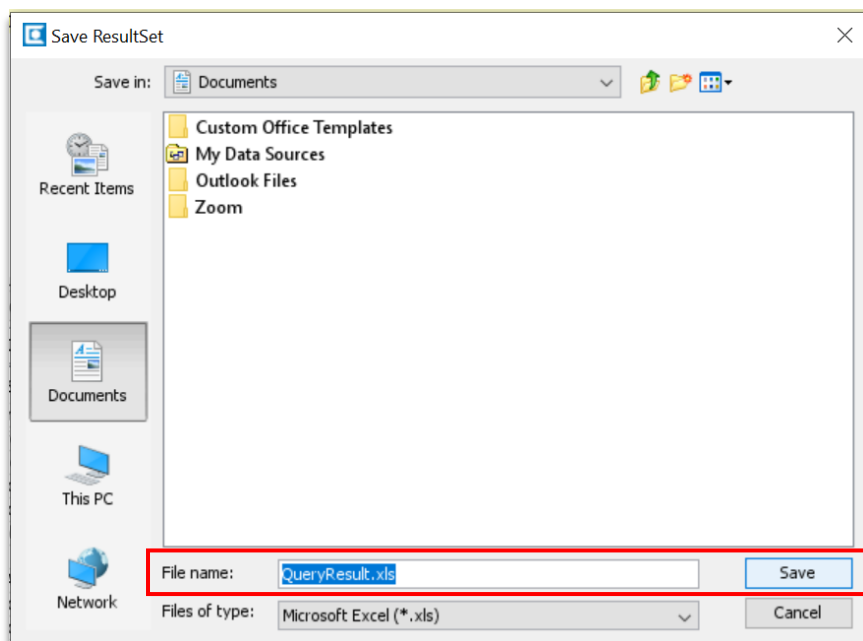


4.3. Exporting to Excel & CSV

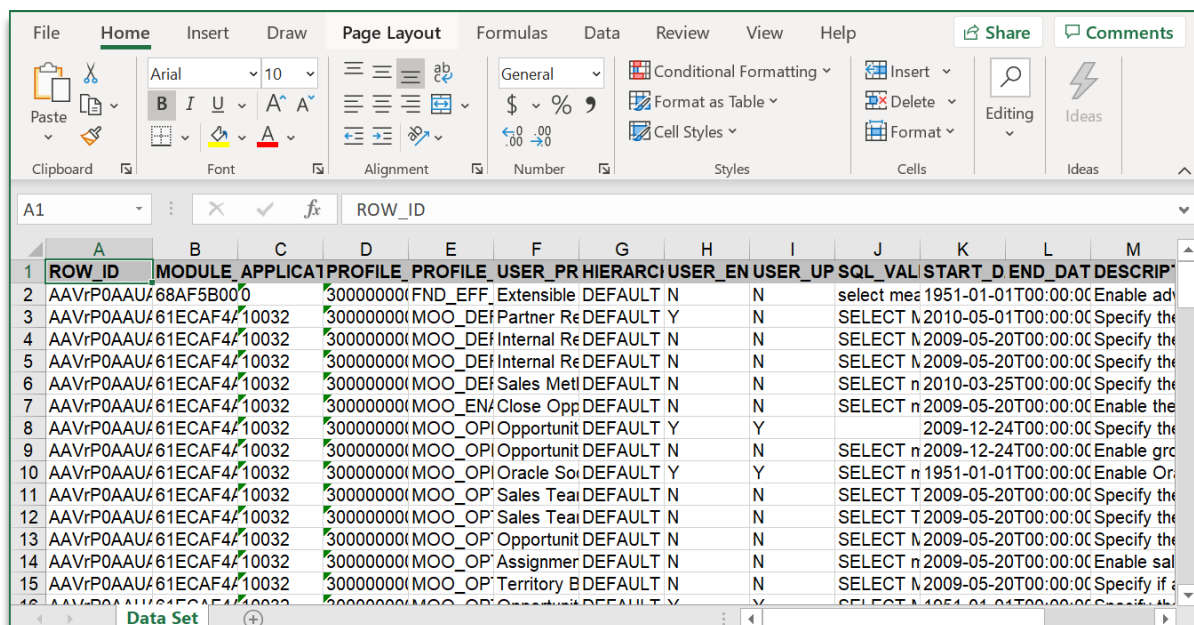
In the results panel, click on the **Export** button and then select the **Export as Excel Spreadsheet** option from the dropdown menu.



Save the results as a local file in your desired folder path.



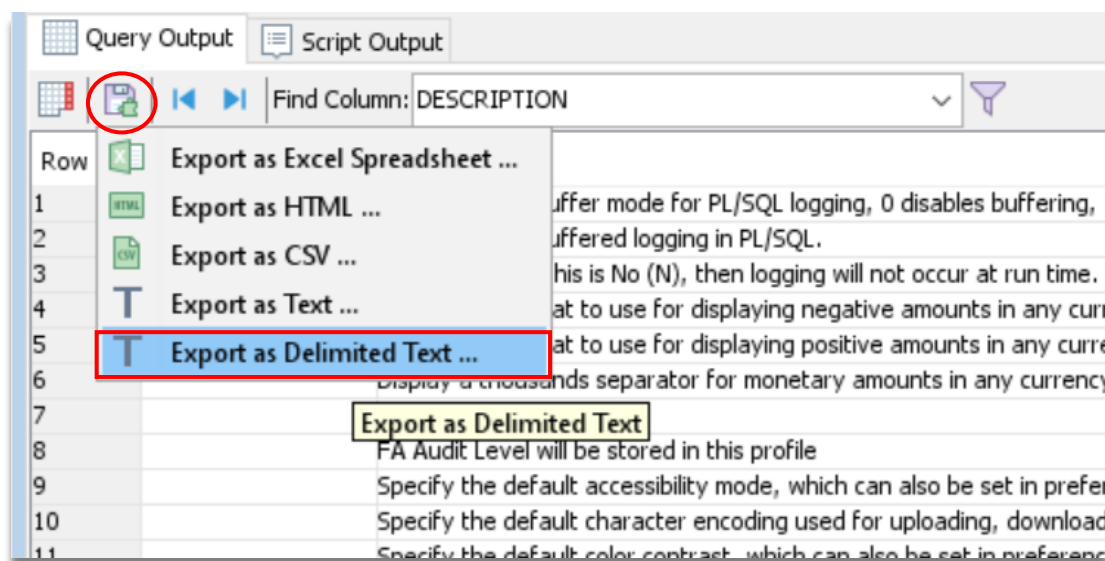
After saving the file, Excel will automatically open the saved file.



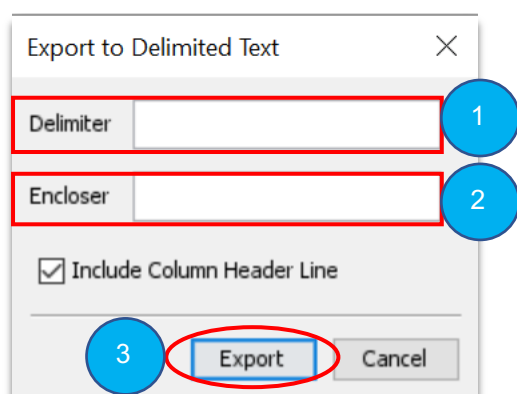
These same steps can also be used to export to a CSV file.

4.4. Exporting to Delimited Text

On the results panel, click on the **Export** button and then select the **Export as Delimited Text** option from the dropdown menu.

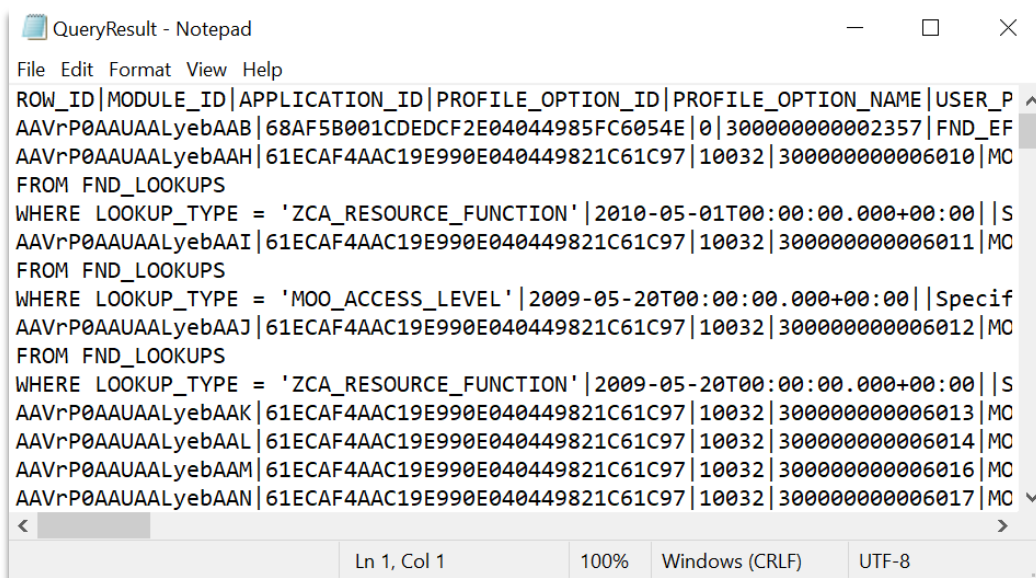


On the **Export window**, choose a delimiter and enclosure and then click on the **Export** button.



Save the results as a local file in your desired folder path.

Your file will auto-open in the Notepad application (if set as the default).



5. The Smart Code Editor

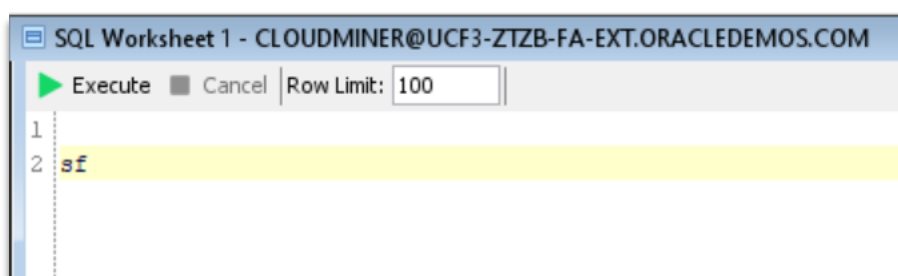
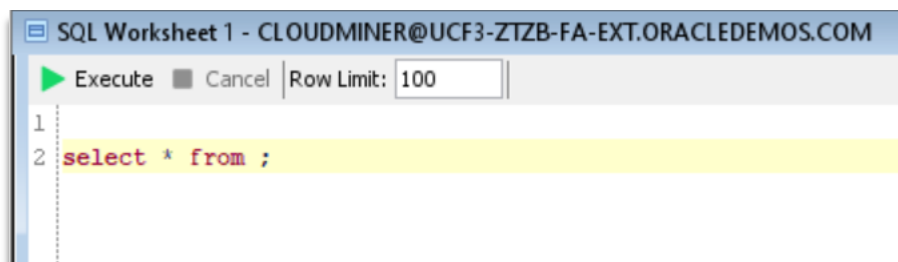
This section showcases various smart features to expedite your writing of SQL queries.

5.1. Shortcut Typing

Example 1:

Type **sf** and press **CTRL+ENTER**.

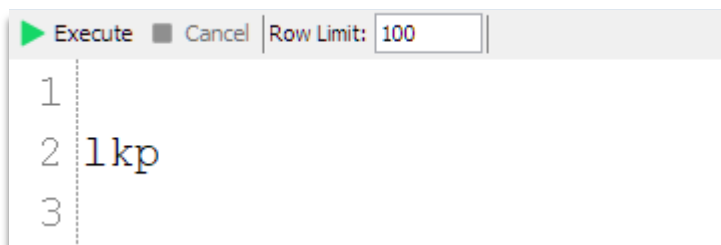
You will notice that the short cut keyword **sf** expands to **select * from**.

Example 2:

Type **lkp** and press **CTRL + ENTER**

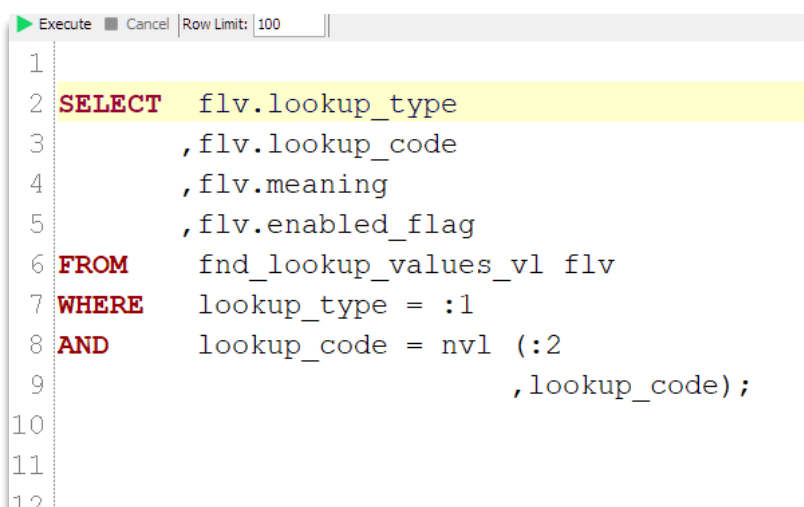
You will notice that **lkp** expands to the **lookup values query** (requires setup as shown in 5.2).



```

1
2 lkp
3

```



```

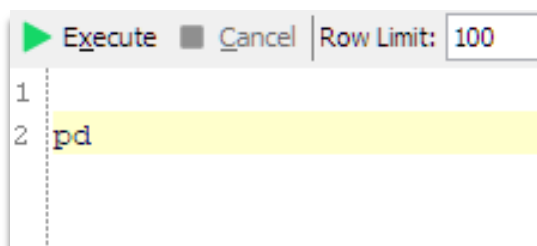
1
2 SELECT flv.lookup_type
3       ,flv.lookup_code
4       ,flv.meaning
5       ,flv.enabled_flag
6 FROM   fnd_lookup_values_vl flv
7 WHERE  lookup_type = :1
8 AND    lookup_code = nvl (:2
9                          ,lookup_code);
10
11
12

```

Example 3:

Type **pd** and press **CTRL + ENTER**.

The shortcut **pd** expands to the person details query (shown on next page).



```

1
2 pd

```

```

Execute  Cancel  Row Limit: 100
2  -- fetch person details
3  SELECT  ppf.person_id
4          ,ppf.person_number
5          ,ppnf.first_name
6          ,ppnf.last_name
7          ,ppl.sex
8          ,ppl.marital_status
9          ,ppos.date_start hire_date
10         ,ple.name legal_employer
11         ,pu.username
12         ,peav.email_address
13         ,paaf.assignment_id
14         ,paaf.assignment_number
15         ,paaf.assignment_type
16         ,paaf.effective_start_date asg_latest_eff_start_date
17 FROM    per_all_people_f ppf
18         ,per_person_names_f ppnf
19         ,per_people_legislative_f ppl
20         ,per_periods_of_service ppos
21         ,per_all_assignments_f paaf
22         ,per_legal_employers ple
23         ,per_users pu
24         ,per_email_addresses_v peav
25 WHERE   ppf.person_id = ppnf.person_id
26 AND     ppnf.name_type = 'GLOBAL'
27 AND     ppl.person_id = ppf.person_id
28 AND     trunc(sysdate) BETWEEN ppf.effective_start_date
29         AND ppf.effective_end_date
30 AND     trunc(sysdate) BETWEEN ppnf.effective_start_date
31         AND ppnf.effective_end_date

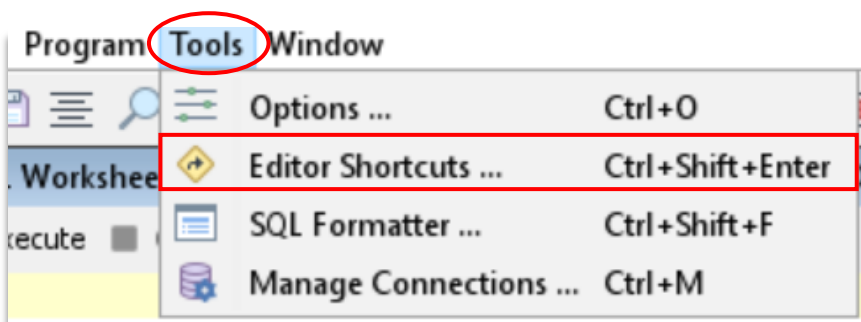
```

5.2. Shortcut Editor

On the toolbar, select **Tools → Editor Shortcuts** to add to, remove, or edit existing shortcuts.

OR

Press the **CTRL + SHIFT + ENTER** keys to access this window using a keyboard shortcut.



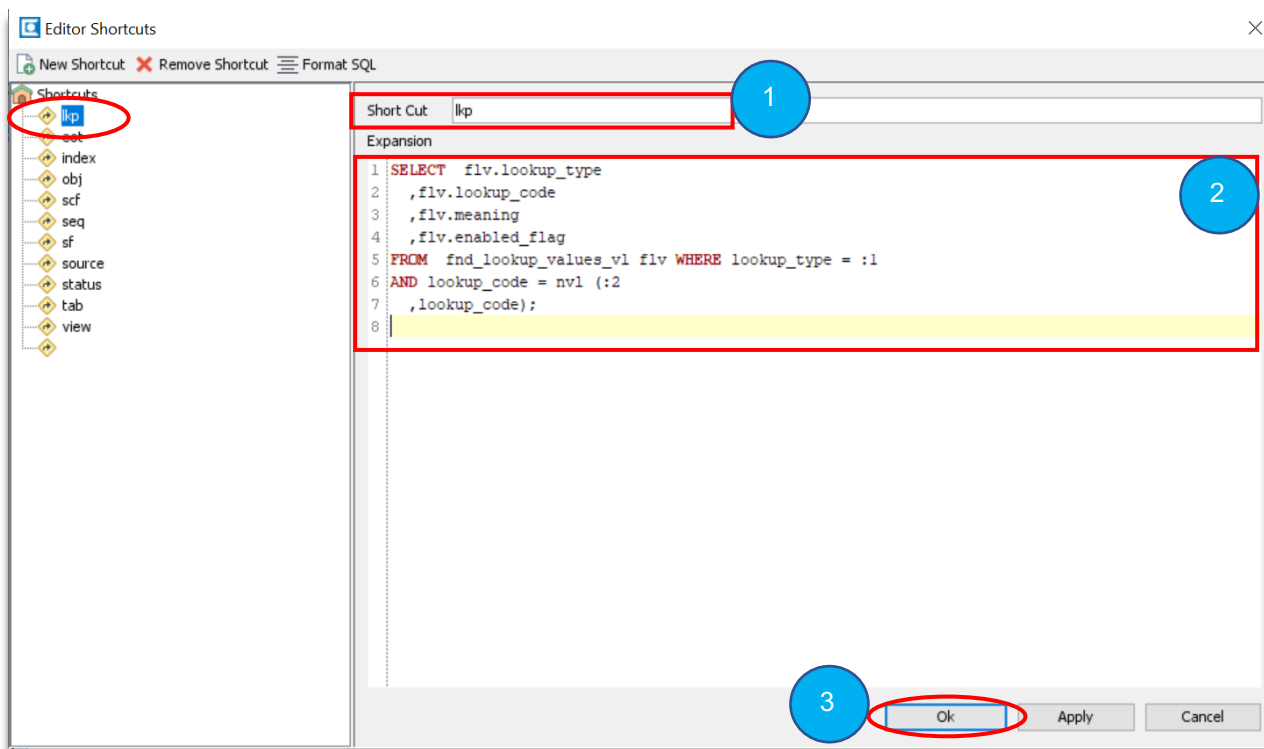
On the **Editor Shortcuts** window, click on the **New Shortcut** button; then enter a **shortcut name** and **query** for your desired shortcut.

You will notice that your new shortcut has been added to the **Shortcuts Pane** alongside any existing ones.

Click **Ok** to save your new shortcut.

Use the following code to setup the **lkp** shortcut by entering it in the Expansion field.

```
SELECT flv.lookup_type
      ,flv.lookup_code
      ,flv.meaning
      ,flv.enabled_flag
FROM   fnd_lookup_values_vl flv WHERE lookup_type = :1
AND    lookup_code = nvl (:2
      ,lookup_code);
```



5.3. Bind Variables

In the query section, type the **lkp** shortcut and press **CTRL + ENTER**. This text should now expand to the code (from the orange box) that you entered as the expansion for this shortcut.

Now, using your mouse, highlight the query.

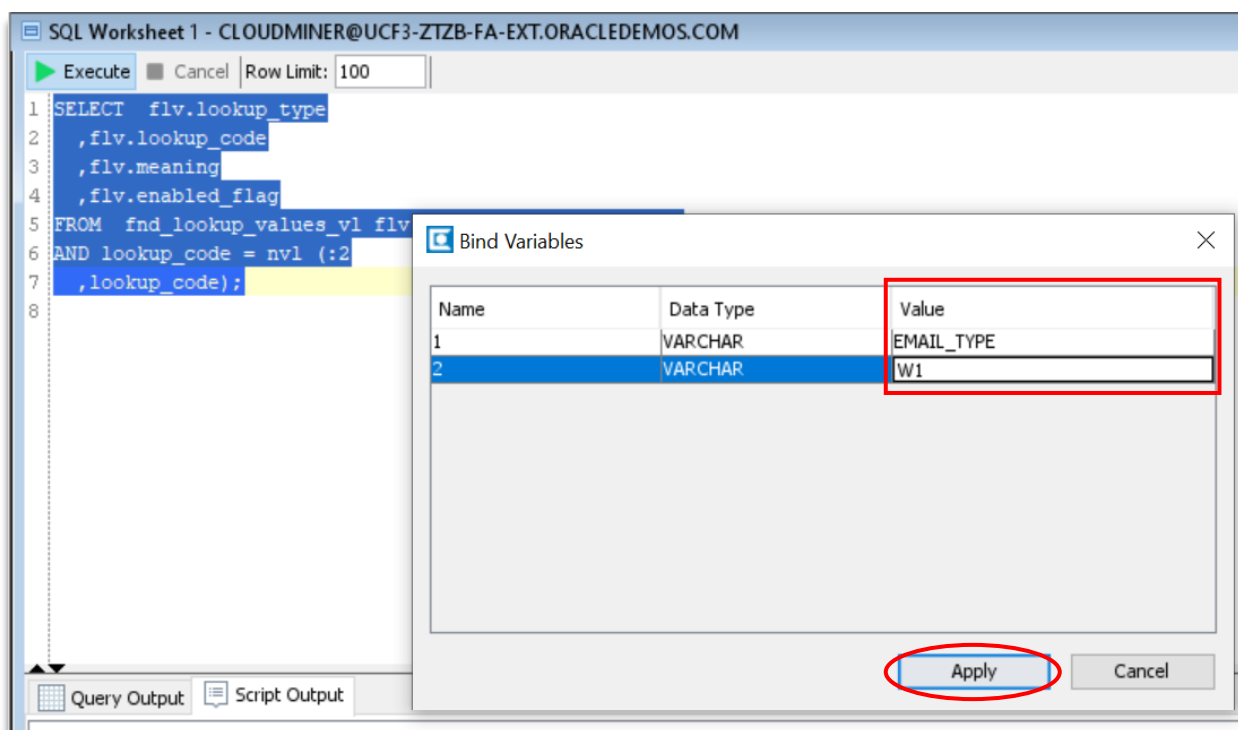
Click on **Execute** to run the query.

Because this query requires bind variables, the **Bind Variables** window opens to allow you to enter the bind variable values. For the **lkp** example, these are as follows:

Enter **EMAIL_TYPE** for Bind Variable 1 in the Value column.

Enter **W1** for Bind Variable 2 (note that this can be left **blank**, too).

Click on the **Apply** button to execute the query.



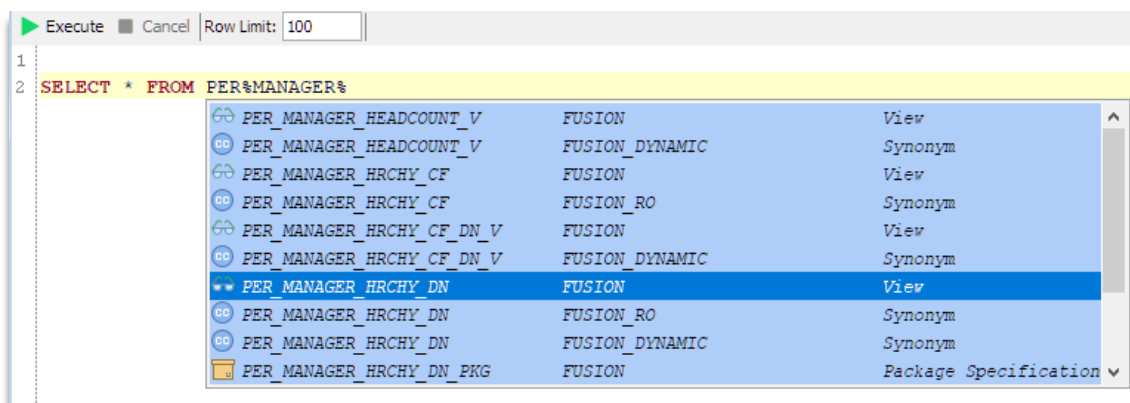
5.4. Smart Code Editor: Quick Database Object Name

On the query panel, type:

SELECT * FROM PER%MANAGER%

Press the **CTRL + SPACE** keys to find all database object names which match the **PER%MANAGER%** text; a pop-up with a list of database objects and their details will appear.

Select “**PER_MANAGER_HRCHY_DN**” from the list and **Execute** the query to see its results.



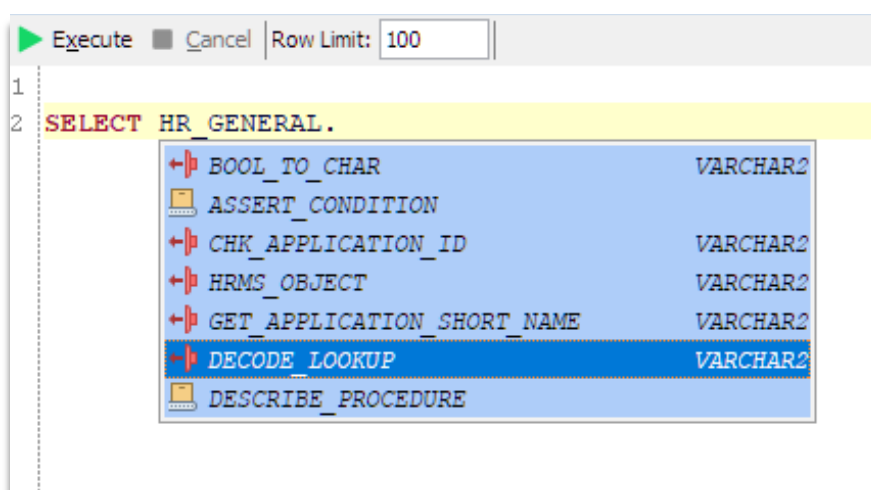
5.5. Smart Code Editor: Quick Database Package Function Helper

On the query panel, type:

SELECT HR_GENERAL.

Press the **CTRL + SPACE** keys to find all functions and procedures defined in the **HR_GENERAL**; a pop-up with the list of functions and their details will appear.

Select the **DECODE_LOOKUP** function from the list and press the **Enter** key.



The function and its parameters, along with their details, will now appear in the query panel.

```

1
2 SELECT HR_GENERAL.DECODE_LOOKUP -- Return Type: VARCHAR2
3 (P_LOOKUP_TYPE => -- Mode: IN Mandatory: true Data Type: VARCHAR2
4 ,P_LOOKUP_CODE => -- Mode: IN Mandatory: true Data Type: VARCHAR2
5 )
6

```

Using the information below, fill the **function parameters**. Once you've done this, press the **Execute** button to run the query.

```

SELECT hr_general.decode_lookup (p_lookup_type => 'EMAIL_TYPE'
,p_lookup_code => 'W1') email_type_meaning
FROM dual;

```

6. Database Object Details

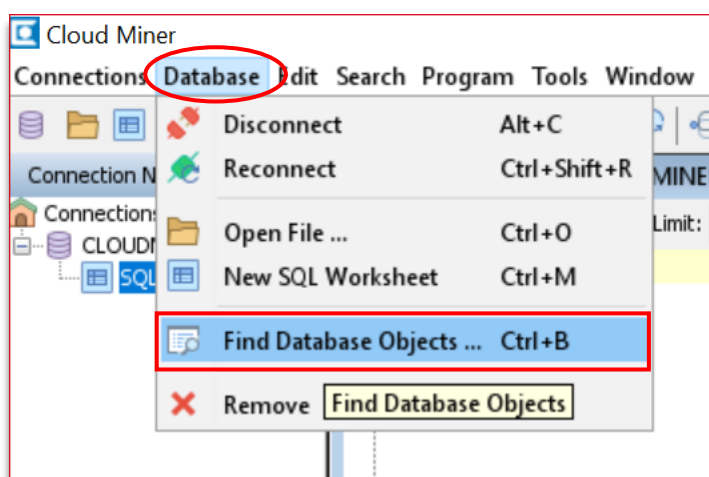
This section showcases various features that allow you to quickly find, browse, and view definitions, as well as quick describe features for database objects (e.g. table, view, package specification, etc.)

6.1. Browsing Database Objects

From the toolbar, select **Database → Find Database Objects**.

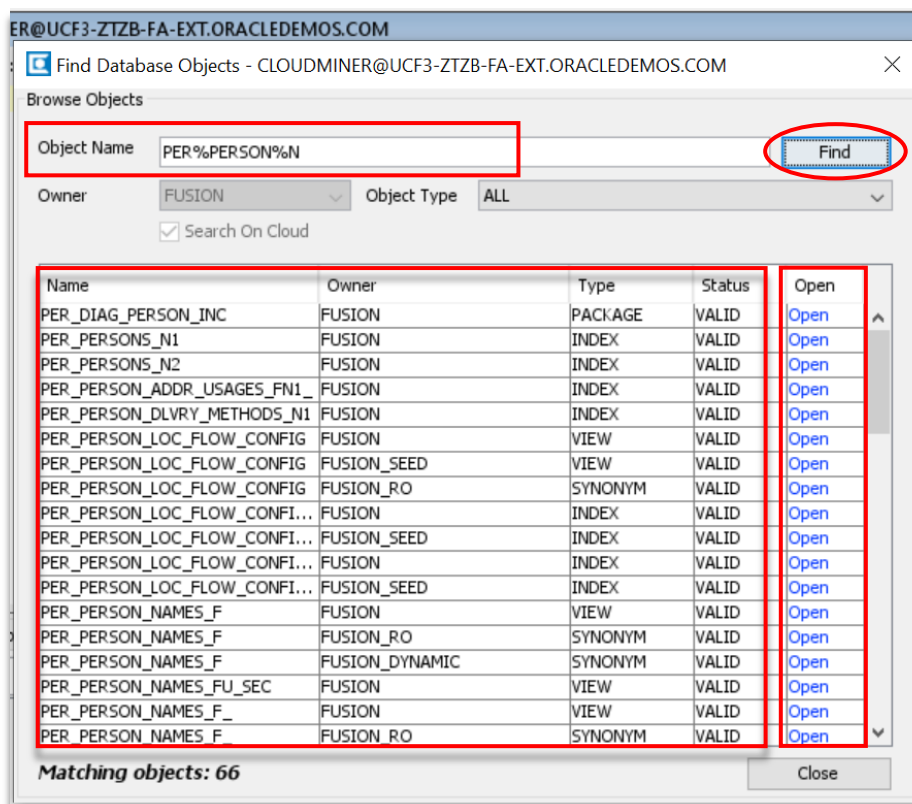
OR

Press the **CTRL + B** keys to use the keyboard shortcut.



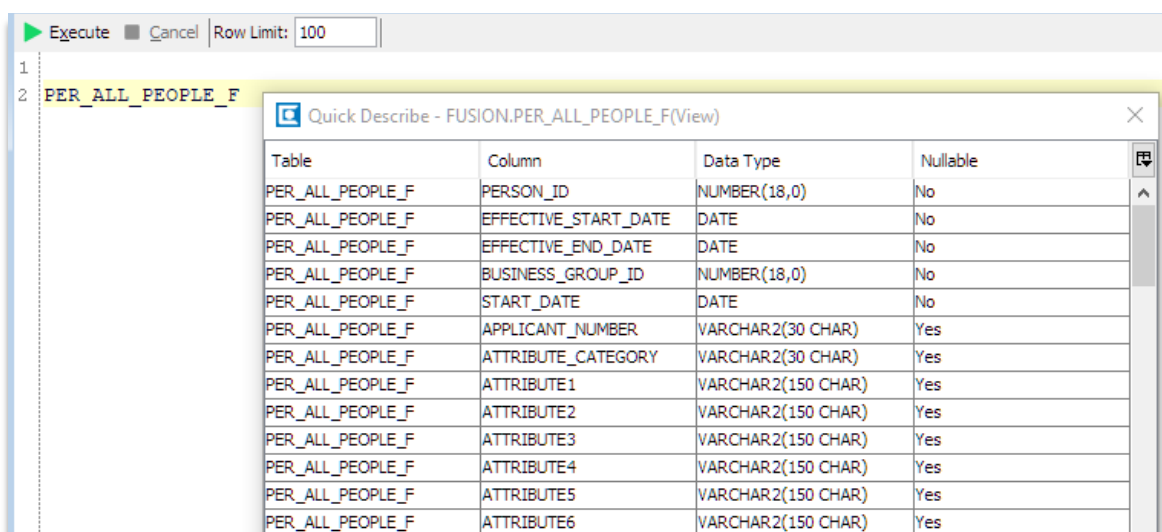
In the **Find Database Objects** window, search for the database object name; use % as the wildcard character.

For example: Search for **PER%PERSON%N** and click on the **Find** button. Any database objects which match the provided criteria will be shown in the table. Note that the **Open** column contains links to check object definitions.



6.2. Quick Describe Table

In the query section, type **PER_ALL_PEOPLE_F** and then press the **CTRL + D** keys to use the keyboard shortcut to view a quick table description.

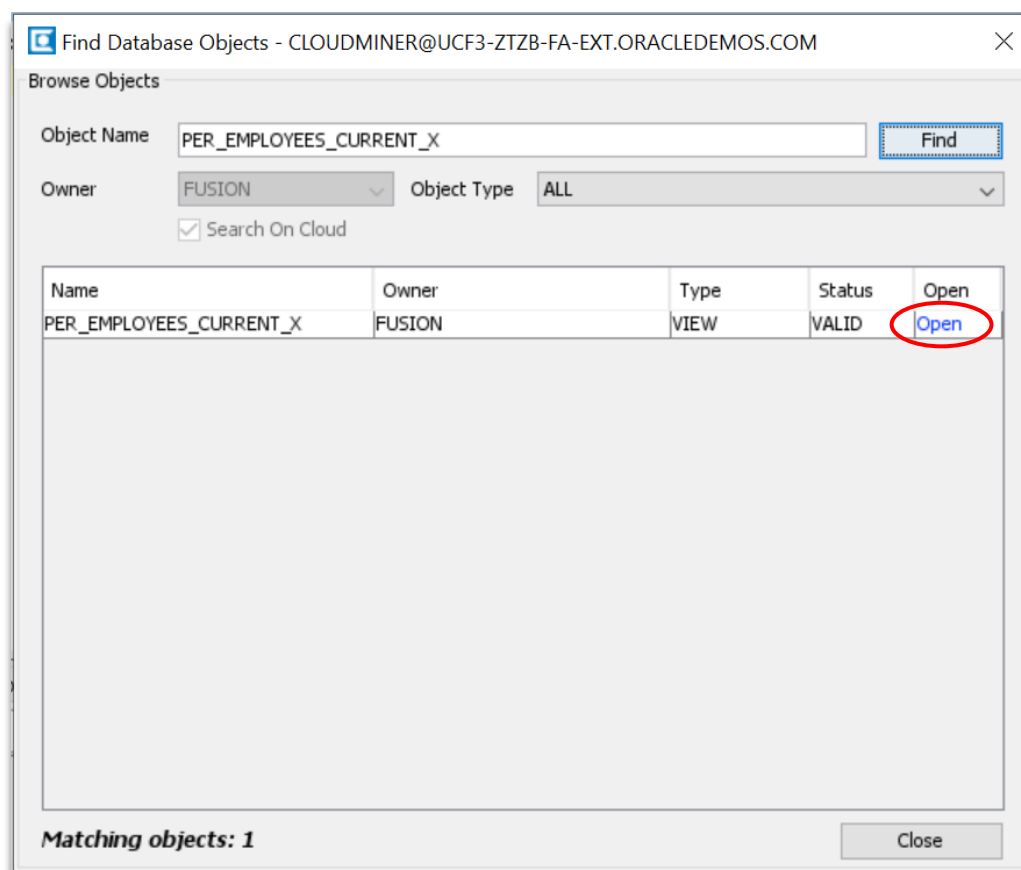


6.3. View Definition

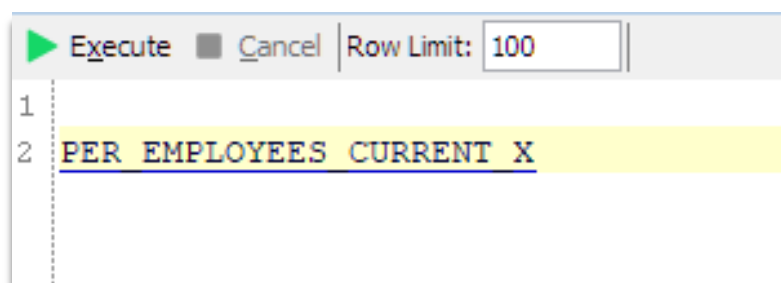
From the **Browse Database Objects** window, **search** for your required **view** and then click on the link to **Open** and see the **view's** definition and details.

OR

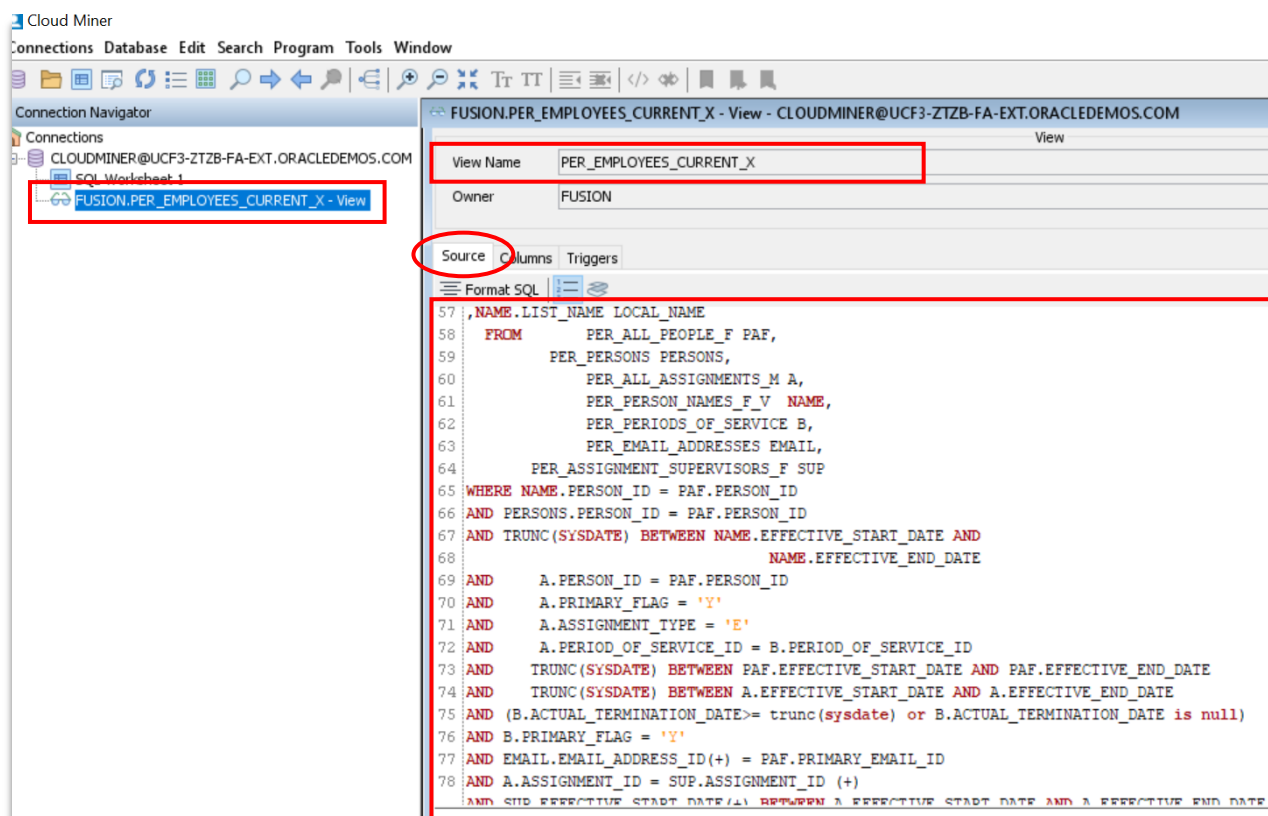
Type the **view name** (e.g. *PER_EMPLOYEES_CURRENT_X*) in the query worksheet and press the **CTRL** key and **Left Click** while hovering the cursor over the view's name to see its definition and details.



Alternatively, you can also accomplish this by typing **PER_EMPLOYEES_CURRENT_X** in the **Query** panel.



You will then see the following panel with the selected **view's** definition and details.

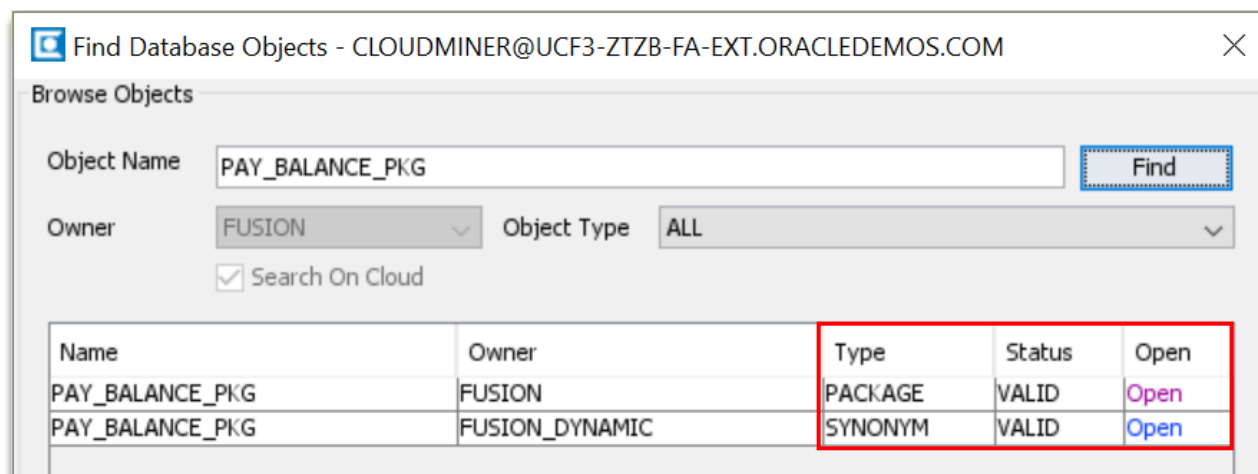


6.4. Package Specification

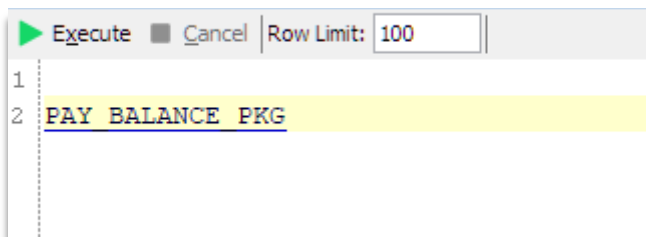
From the **Browse Database Objects** window, **search** for your required **package** and then click on the link to **Open** the **package's** specification details.

OR

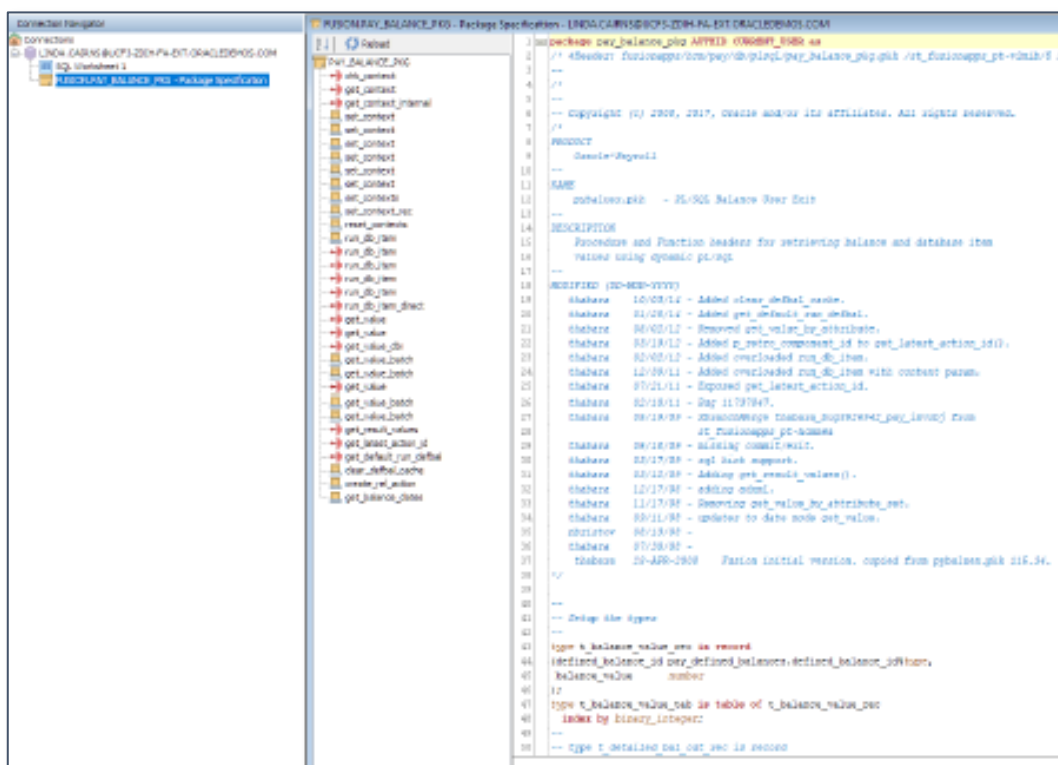
Type the **package name** (e.g. **HR_GENERAL** or **PAY_BALANCE_PKG**) in the query worksheet and press the **CTRL** key and **Left Click** while hovering the cursor over the package's name to see its specification details.



Alternatively, you can also accomplish this by typing **PAY_BALANCE_PKG** in the query panel.



You will then see the following panel with the selected **package's** specification details.

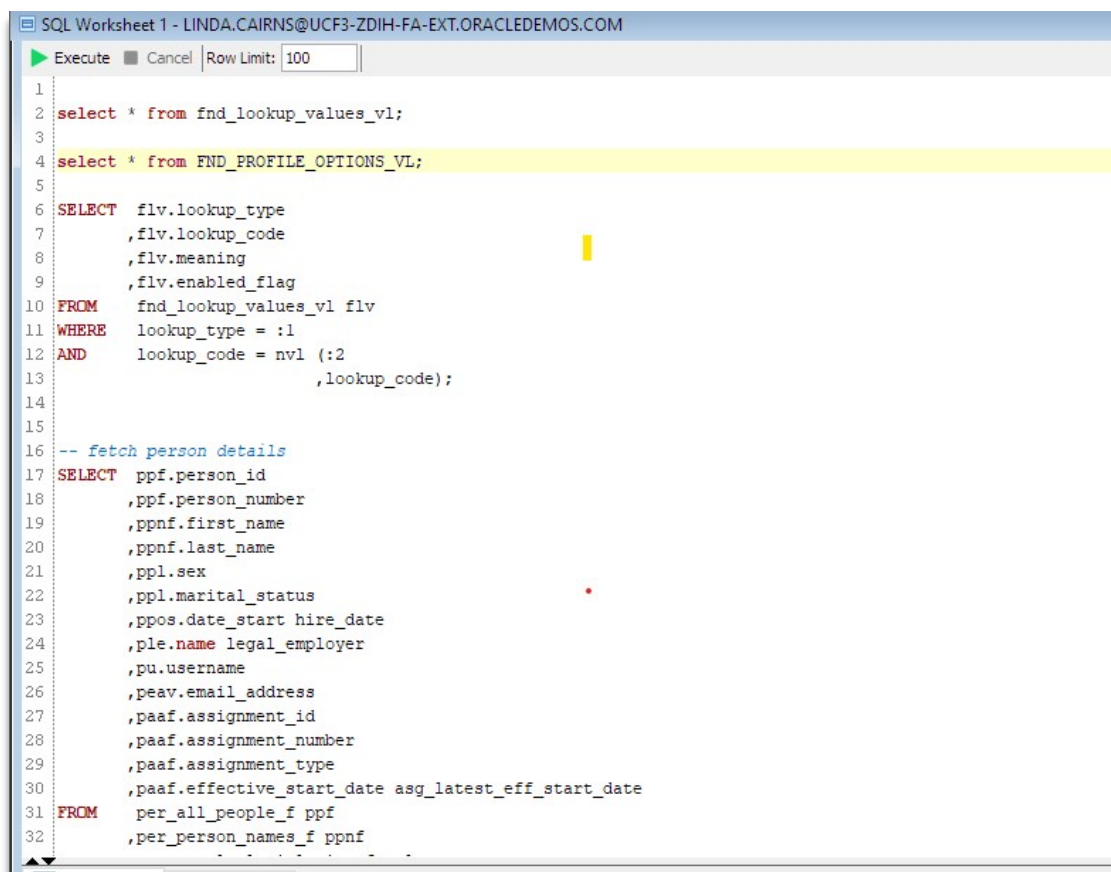


7. Multiple POD Connections, Worksheets, and Queries

This section showcases how CloudMiner allows for simultaneous connections to various PODs along with multiple worksheets within the same connection.

7.1. Multiple Queries in One Sheet

A single worksheet can contain as many queries as you'd like. Any query from the sheet can be run by highlighting it and subsequently clicking on the **Execute** button.



SQL Worksheet 1 - LINDA.CAIRNS@UCF3-ZDIH-FA-EXT.ORACLEDEMOS.COM

Execute Cancel Row Limit: 100

```

1
2 select * from fnd_lookup_values_vl;
3
4 select * from FND_PROFILE_OPTIONS_VL;
5
6 SELECT flv.lookup_type
7       ,flv.lookup_code
8       ,flv.meaning
9       ,flv.enabled_flag
10 FROM   fnd_lookup_values_vl flv
11 WHERE  lookup_type = :1
12 AND    lookup_code = nvl (:2
13                        ,lookup_code);
14
15
16 -- fetch person details
17 SELECT ppf.person_id
18       ,ppf.person_number
19       ,ppnf.first_name
20       ,ppnf.last_name
21       ,ppl.sex
22       ,ppl.marital_status
23       ,ppos.date_start hire_date
24       ,ple.name legal_employer
25       ,pu.username
26       ,peav.email_address
27       ,paaf.assignment_id
28       ,paaf.assignment_number
29       ,paaf.assignment_type
30       ,paaf.effective_start_date asg_latest_eff_start_date
31 FROM   per_all_people_f ppf
32       ,per_person_names_f ppnf

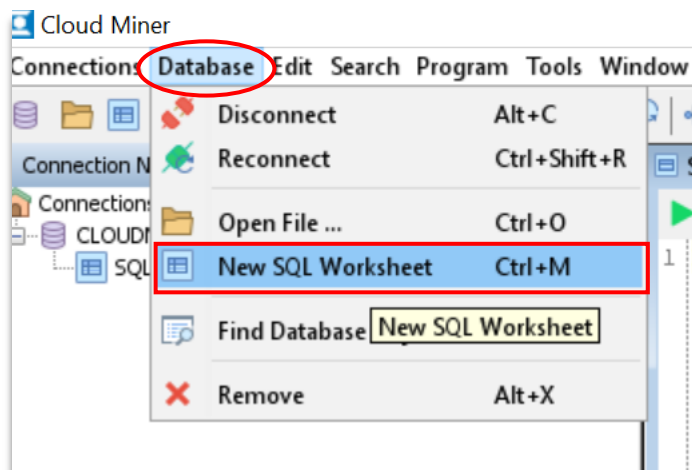
```

7.2. Multiple Worksheets

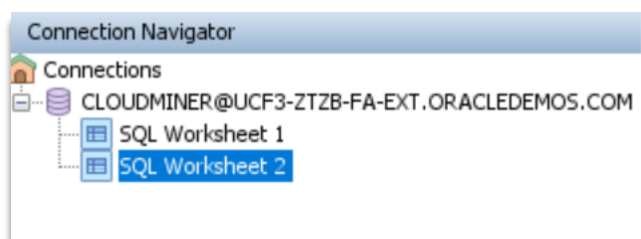
To create a new worksheet, select **Database** → **New SQL Worksheet** from the main toolbar.

OR

Press the **CTRL + M** keys to use the keyboard shortcut.

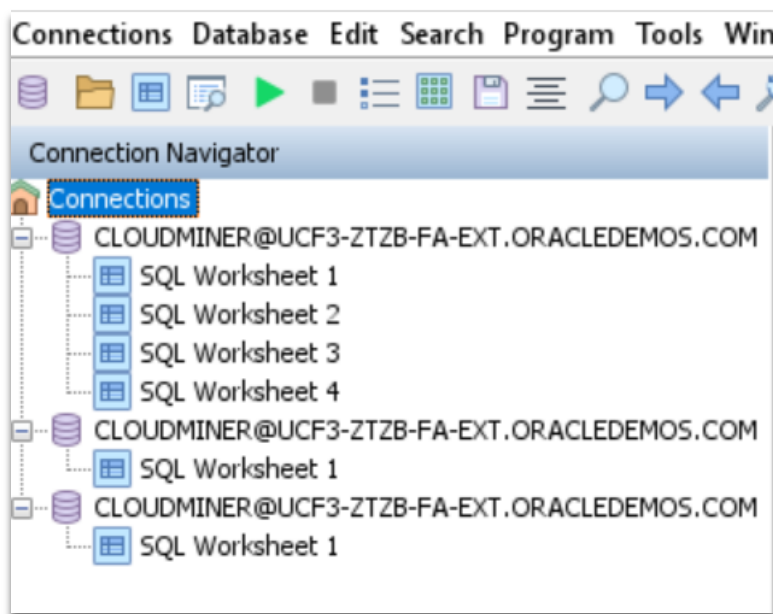


Following this, a new **worksheet** will open; you can view and access this worksheet from the **Connection Navigator** pane on the left-hand side of your screen.



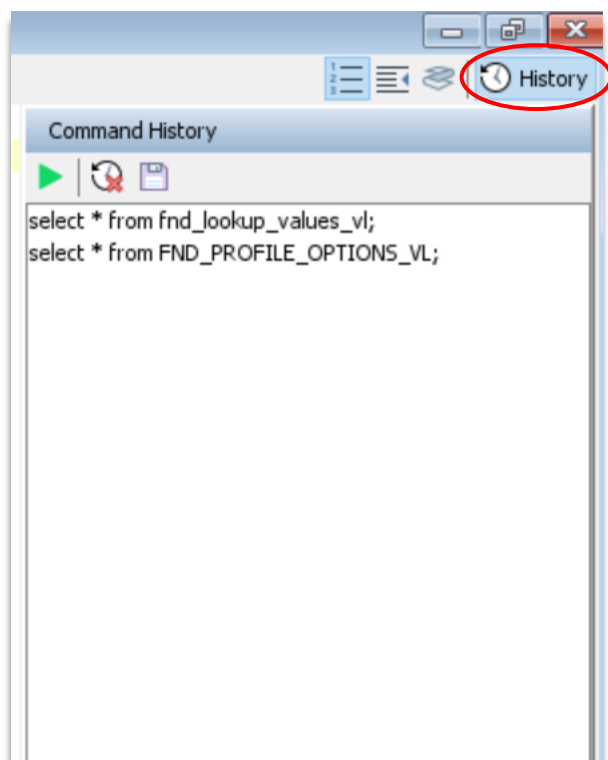
7.3. Multiple Connections

Multiple connections can be active at the same time across PODs. All **connections** and **worksheets** can be seen and accessed from the **Connection Navigator** pane.



8. History of Executed Queries

From the query worksheet, click on the **History** button located in the upper-right corner; this will open a pop-up showing all queries executed from your current session.

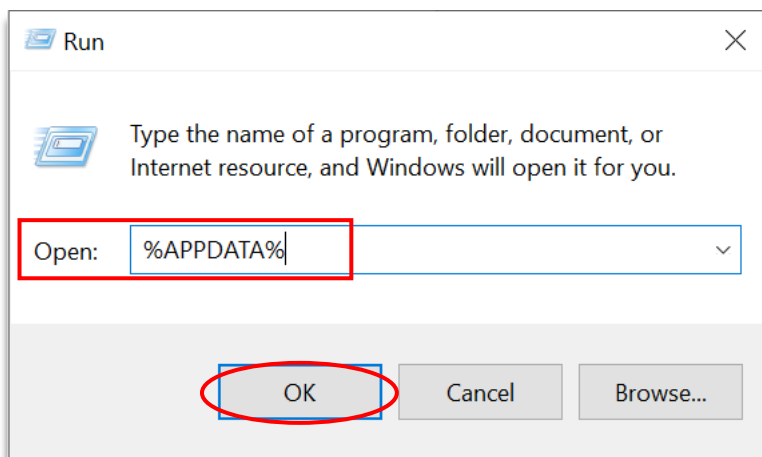


9. Appendix

9.1. Installing the Shortcut Commands File

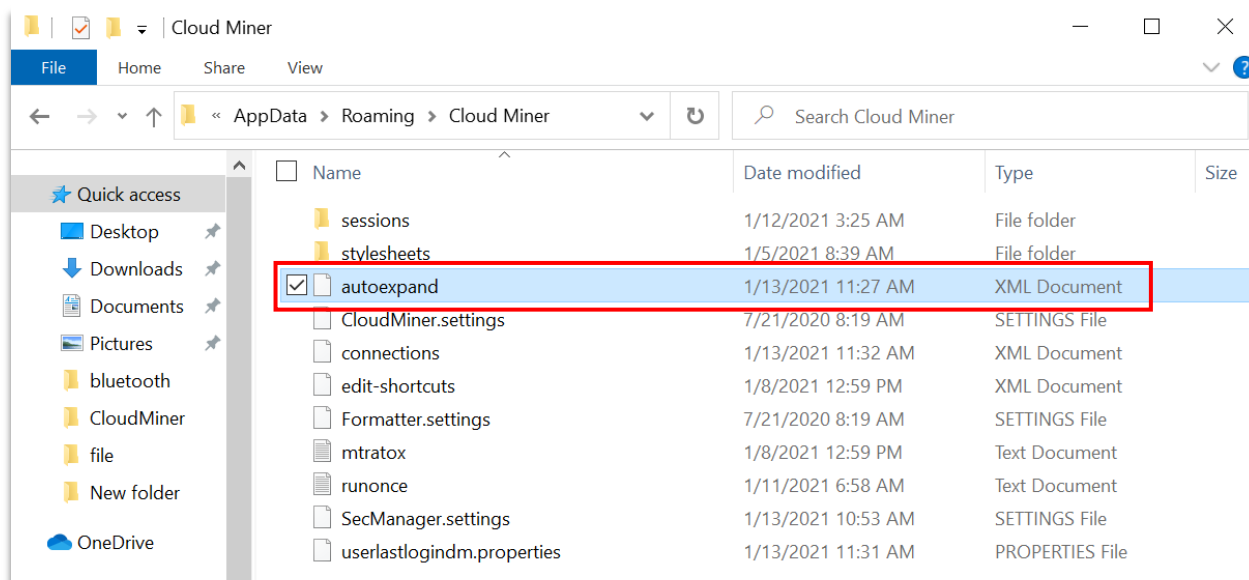
Press the **WINDOWS + R** keys (or search for *Run* from the Start Menu).

In the **Run** window opened, enter **%APPDATA%** and then press the **OK** button.



This will open the **Roaming** folder. Then, **Double Click** on **CloudMiner** from the list of folders of shown.

Replace **autoexpand.xml** with the file attached below.



autoexpand.xml

Go back to the CloudMiner application, connect to a POD, and open a SQL worksheet.

Type **demo** and press the **CTRL + ENTER** keys which will auto expand to include all the queries discussed and illustrated in this document.

