

CloudMiner

User Guide

Details and instructions to get started with CloudMiner

cloudminersupport@ritesoftware.com





Table of Contents

1.	Setti	ting Up Your Connection			
2.	Log	ging In	.5		
3.	Exe	cuting 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	e 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 Text1	11		
5.	The	Smart Code Editor1	12		
5	.1.	Shortcut Typing	12		
5	.2.	Shortcut Editor1	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 Helper1	17		
6.	Data	base 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.	Mult	iple POD Connections, Worksheets, and Queries2	23		
7	.1.	Multiple Queries in One Sheet	23		
7	.2.	Multiple Worksheets	24		
7	.3.	Multiple Connections	25		
8.	Histo	pry of Executed Queries	25		
9.	Арр	endix2	26		
9	.1.	Installing the Shortcut Commands File	26		



1. Setting Up Your Connection

On the toolbar, select Tools → Manage Connections					
Cioud Miner	Search Program Tool	s Window			
9 🖿 🗏 🍺 🕨 🗄	E 🖩 🖻 🗏 🔎 🗮	Options	Ctrl+0	📧 🐲 📕 📕	
Connection Navigator	亘 SQL Workshee 🔗	Editor Shortcuts	Ctrl+Shift+Enter	EMOS.COM	
	🕨 Execute 🔳	SOL Formatter	Ctrl+Shift+F		
SQL Worksheet 1	1	Manage Connections	Ctrl+M		
		Manage C	onnections	-	



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.

▦▣≡ዖ⇔⇔۶	C Manage Connections				×
SQL Worksheet 1 - CLOUD	🔓 New Connection 🗙 Remov	e Connection			
Execute Cancel Row	Connections	Connection Name	ucf3-ztzb-fa-ext		1
		Connection Det	ails		
		POD URL ud	f3-ztzb-fa-ext.oracledemos.com		2
			3 Apply	Ok 4	cel



2. Logging In

Fro	From the toolbar, select Connections → New Connection .			
🖸 C	loud Miner			
Coni	nections Database	Edit Search Program Tools Window		
e	New Connection	Ctrl+N 🖱 🗏 🔎 🖨 🏳 🎼 🗩 🗩 💥 Tr TT		
ø * 8	Connect All Ne Disconnect All Remove All	Worksheet 1 - CLOUDMINER@UCF3-ZTZB-FA-EXT.C		
-	Workspace	>		
0	Exit	Alt+F4		

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.

New Connection ×				
Username Password	CloudMiner	1 2		
POD	ucf3-ztzb-fa-ext.oracledemos.com 🗸 🗸	3		
	Save Connection Details			
Saved Connections 4 Connect Cancel				
	Recent Connections	-		
	eloudminer @ucf3-ztzb-fa-ext			



3. Executing a Simple Query

On the Worksheet, type in the following query:

select * from FND_PROFILE_OPTIONS_VL;

Highlight the query test 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

Quer	Query Output Script Output			
	Find Column		~ 7	
Row #	ROW_ID	MODULE_ID	APPLICATION_ID	PROFILE_OPTION_ID
2	AAVrP0AAUAALyebAAH	61ECAF4AAC19E990E040449821C61C97	10032	30000000006010
3	AAVrP0AAUAALyebAAI	61ECAF4AAC19E990E040449821C61C97	10032	30000000006011
4	AAVrP0AAUAALyebAAJ	61ECAF4AAC19E990E040449821C61C97	10032	30000000006012
5	AAVrPOAAUAALyebAAK	61ECAF4AAC19E990E040449821C61C97	10032	30000000006013
6	AAVrPOAAUAALyebAAL	61ECAF4AAC19E990E040449821C61C97	10032	30000000006014
7	AAVrP0AAUAALyebAAM	61ECAF4AAC19E990E040449821C61C97	10032	30000000006016
8	AAVrP0AAUAALyebAAN	61ECAF4AAC19E990E040449821C61C97	10032	30000000006017
9	AAVrP0AAUAALyebAAO	61ECAF4AAC19E990E040449821C61C97	10032	30000000006018
10	AAVrPOAAUAALyebAAP	61ECAF4AAC19E990E040449821C61C97	10032	30000000006019
11	AAVrPOAAUAALyebAAQ	61ECAF4AAC19E990E040449821C61C97	10032	30000000006020
12	AAVrP0AAUAALyecAAA	61ECAF4AAC19E990E040449821C61C97	10032	30000000006021
13	AAVrP0AAUAALyecAAB	61ECAF4AAC19E990E040449821C61C97	10032	30000000006022
14	AAVrP0AAUAALyecAAC	61ECAF4AAC19E990E040449821C61C97	10032	30000000006023
15	AAVrP0AAUAALyecAAD	61ECAF4AAC19E990E040449821C61C97	10032	30000000006024

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.

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

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.

	Query Output Script Output					
		Find Column		~ 7		
l	Row #	ROW_ID	MODULE_ID	APPLICATION_ID		
l	2	AAVrP0AAUAALyebAAH	61ECAF4AAC19E990E040449821C61C97	10032		
L	3	AAVrP0AAUAALyebAAI	61ECAF4AAC19E990E040449821C61C97	10032		
L	4	AAVrP0AAUAALyebAAJ	61ECAF4AAC19E990E040449821C61C97	10032		
L	5	AAVrP0AAUAALyebAAK	61ECAF4AAC19E990E040449821C61C97	10032		
	6	AAVrP0AAUAALyebAAL	61ECAF4AAC19E990E040449821C61C97	10032		
	7	AAVrP0AAUAALyebAAM	61ECAF4AAC19E990E040449821C61C97	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	3000000002357		
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	F
APPLICATION_ID	PROFILE_OPTION_ID	PROFILE_OPTION_NAME		USER_PROFILE_OPTION_NAME
10032	30000000006024	MOO_OPTY_SRCH_DFLT_CLS_PERIC	DD	Opportunity Search Close Period Default
10032	30000000006026	MOO_OPTY_SRCH_DSQUERY_PERF.	ENABLED	Opportunity Search High Performance De
101	30000000009031	GL_RECORDS_TO_PROCESS		Journal Import Records to Process at On
10097	30000000009155	HRG_ENABLE_OUTCOMES		Performance Goal Target Outcomes Enat
10097	30000000009159	HRG_ENABLE_TASK		Performance Goal Tasks Enabled
101	30000000009007	GL_DRM_API_ADAPTER_URL		GL: DRM API Adapter URL
101	30000000009009	GL_DRM_HIER_EXPORT_PROP		GL: DRM Pro <mark>per</mark> ty to Allow Hierarchy Exp
101	30000000009010	GL_DRM_VALUE_SET_PROP		GL: DRM Pro <mark>per</mark> ty for Value Set Name
101	30000000009012	GL_DRM_VER_EXPORT_PROP		GL: DRM Pro <mark>per</mark> ty to Allow Version Expor
101	30000000009013	GL_ESSBASE_BUFFER_ID		Essbase Buffer ID
101	30000000009016	GL_GLPPOS_AVGBAL_POST_WORKE	RS	Number of Average Balance Post Worker
0	30000000001647	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.

📃 Script	Output			
Find Colu	mn: DESCRIPTION Search			
_ACTIVE	ACTIVE DESCRIPTION Asynchronous buffer mode for PL/SQL logging, 0 disables buffering, >0 enables buffering for messages with level under "Warning". Buffer size for buffered logging in PL/SQL. Log enabled. If this is No (N), then logging will not occur at run time. Specify the format to use for displaying negative amounts in any currency.			
	Display a thousands separator for monetary amounts in any currency.			
	Specify the default accessibility mode, which can also be set in preferences. Specify the default character encoding used for uploading, downloading, and exporting files. Specify the default color contrast, which can also be set in preferences.			
	Enable including business intelligence in configuration sets used to migrate application modifications from one environment to another. Specify the name of the CSS definition that was created, using Oracle Application Development Framework Skin Editor, to define the look CSS Skin Family Version			
(Complete				

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.

Query Output 📃 Script Ou	utput
Find Column	n: DESCRIPTION ~ \
Row 🚺 Export as Excel Spre	eadsheet
1 Export as HTML	uffer mode for PL/SQL logging, 0 disables buffering, >0 enables buffering for messages
2 Export or CSV	uffered logging in PL/SQL.
3 Export as C3V	his is No (N), then logging will not occur at run time.
4 Export as Text	at to use for displaying negative amounts in any currency.
5 T Export as Delimited	I Text at to use for displaying positive amounts in any currency.
6	napray a croase ands separator for monetary amounts in any currency.
7	
8 F4	A Audit Level will be stored in this profile
9 St	pecify the default accessibility mode, which can also be set in preferences.
10 Sp	pecify the default character encoding used for uploading, downloading, and exporting files.
11 Sr	pecify the default color contrast, which can also be set in preferences.
12 Er	nable including business intelligence in configuration sets used to migrate application modifications from
13 Sr	pecify the name of the CSS definition that was created, using Oracle Application Development Framewo
14 CS	SS Skin Family Version
<	
Showing Row(s): 100 (Complete)	



Save the results as a local file in yo	our desired folder path.
--	--------------------------

Save ResultSe	et	×
Save in:	🖹 Documents 🗸 🤌 🎲 🔛	
Recent Items	Custom Office Templates My Data Sources Outlook Files Zoom	
Desktop		
Documents		
This PC		
1	File name: QueryResult.xls	Save
Network	Files of type: Microsoft Excel (*.xls)	Cancel

Message × Export Complete.

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

F	ile	Home	e Inse	t Dra	W	Page La	/out	Fo	ormulas	Data	ı R	eview	View	He	lp		ළු S	hare		Comme	ents
Pa	aste	¥ []] ~ 4	Arial B I L Image: Second sec	 ✓ 10 ! ~ A[*] A ~ A[*] 	Ă		≡ ११ ≣ ₫ %⁄~~	~	General \$ ~ % €00 ->00	• ୨	E C	ondition ormat as ell Styles	al Format Table Y Y	ting Y	翻 In: 题 De 誦 Fo	sert ~ elete ~ ormat ~	Ec) diting `	Idea	7 7 35	
С	lipboa	ard 🗔	Fc	nt	Ŀ	Alignm	ent	Б	Number	۲ <u>۵</u>		S	tyles		C	ells			Idea	IS	^
A1	L	Ŧ	: >	 ✓ 	f_x	ROW	ID														~
		А	В	С		D	E		F	(G	н		I I	J	ŀ	<	L	_	М	
1	RO	W_ID	MODUL		CAT	PROFILE_	PROF	ILE_	USER_PF	RHIEF	RARCI	USER_	EN USE	R_UP \$	SQL_VA		RT_I	D END	DAT	DESC	RIP
2	AA	VrP0AAU	A 68AF5B	00'0		300000000	FND_E	FF	Extensible	DEF		N	N	5	select m	ea 1951	-01-0	01T00:	00:00	Enable	ad
3				4/ 10032		20000000000			Partner R Internal R			Y N	IN N			N 2010	-05-0		00:00	Specif	y the
5				4/10032		2000000000	MOO		Internal R			N	N		SELECT	N 2009	-05-	20100. 20T00-	00.00	Specif	y the
6		VrP0AAU	A61ECAF	4/10032		300000000	MOO	DEF	Sales Me	IDFF		N	N		SELECT	n 2010	-03-3	25T00	00.00	Specif	v the
7	AA	VrP0AAU	61ECAF	4/10032		300000000	MOO	EN/	Close Op	DEF	AULT	N	N	5	SELECT	n 2009	-05-2	20T00:	00:00	Enable	the
8	AA	VrP0AAU	A61ECAF	4/10032	1	30000000	MOO	OPI	Opportuni	t DEF	AULT	Y	Y			2009	-12-2	24T00:	00:00	Specif	y the
9	AA	VrP0AAU	A61ECAF	4/10032	1	30000000	MOO	OPI	Opportuni	t DEF	AULT	N	Ν	\$	SELECT	n 2009	-12-2	24T00:	00:00	Enable	grc
10	AA	VrP0AAU	A61ECAF	4/10032	1	30000000	MOO	OPI	Oracle Sc	DEF	AULT	Y	Y	5	SELECT	n 1951	-01-0	01T00:	00:00	Enable	Or
11	AA	VrP0AAU	J/61ECAF	4/10032	1	30000000	MOO	OP'	Sales Tea	DEF	AULT	N	N	\$	SELECT	T 2009	-05-2	20T00:	00:00	Specif	y the
12	AA	VrP0AAU	J/61ECAF	4/10032	1	30000000	MOO	OP.	Sales Tea	DEF	AULT	Ν	Ν	\$	SELECT	T 2009	-05-2	20T00:	00:00	Specif	y th∉
13	AA	VrP0AAU	J/61ECAF	4/10032	1	30000000	MOO	OP'	Opportuni	t DEF	AULT	N	Ν	5	SELECT	N2009	-05-2	20T00:	00:00	Specif	y the
14	AA	VrP0AAU	J/61ECAF	4/10032	- 3	30000000	MOO	OP.	Assignme	r DEF	AULT	N	Ν	:	SELECT	n 2009	-05-2	20T00:	00:00	Enable	sal
15	AA	VrP0AAU	I/61ECAF	4/10032		30000000	MOO	OP.	Territory I	BDEF	AULT	N	N	\$	SELECT	N2009	-05-2	20T00:	00:00	Specif	y if 😜
1		Da	ata Set	+		20000000	1100	00.	One and the	I DEE		V				1054	04 1	14 T'∩∩.	<u></u>	Casaif	

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.

Query Output Script Output						
Find Colu	umn: DESCRIPTIC	N ~ 7				
Row 🚺 Export as Excel S	preadsheet					
1 Export as HTML		Iffer mode for PL/SQL logging, 0 disables buffering, 1				
2 Export or CSV		Iffered logging in PL/SQL.				
3 Export as C3V		his is No (N), then logging will not occur at run time.				
4 Export as Text		at to use for displaying negative amounts in any curr				
5 Export as Delimit	ted Text	at to use for displaying positive amounts in any curre				
6	Display a criouse	nds separator for monetary amounts in any currency				
7	Export as Delimi	ted Text				
8	FA Audit Level w	vill be stored in this profile				
9	Specify the defa	ault accessibility mode, which can also be set in prefer				
10	Specify the defa	ault character encoding used for uploading, download				
11	Specify the defa	ult color contrast, which can also be set in preference				

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

Export to	Delimited Text	×
Delimiter		
Encloser		2
🗹 Include	e Column Header Line	
3	Export	Cancel



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).

🥘 QueryResult - Notepad				-	- 🗆	>	<
File Edit Format View Help							
ROW_ID MODULE_ID APPLICATI	ION_ID PROFILE_OP	TION_IC	PROFILE_	OPTION	NAME	JSER_P	^
AAVrPØAAUAALyebAAB 68AF5B0	001CDEDCF2E040449	85FC605	54E 0 3000	000000	002357	FND_EF	:
AAVrP0AAUAALyebAAH 61ECAF4	4AAC19E990E040449	821C610	297 10032	300000	000006	010 MC	1
FROM FND_LOOKUPS							
WHERE LOOKUP_TYPE = 'ZCA_F	RESOURCE_FUNCTION	2010-	-05-01T00:	00:00.	.000+00	:00 5	i
AAVrPØAAUAALyebAAI 61ECAF4	4AAC19E990E040449	821C610	297 10032	300000	000006	011 MC	1
FROM FND_LOOKUPS							
WHERE LOOKUP_TYPE = 'MOO_A	ACCESS_LEVEL 200	9-05-26	0100:00:00	.000+6	00:00	Spec1†	
AAVYPUAAUAALYEDAAJ 61ECAF4	4AAC19E990E040449	8210610	97 10032	300000	00000000	812 MC	
FROM FIND_LOUKUPS		12000		00.00	000.00		.
AAVpBQAAUAAUxebAAK 61ECAEA		2009-	-05-20100.	200000	000+00	.00 3 312 MC	
	1AAC19E990E040449	8210610	-97 10032	300000	00000000	217 MC	
AAVIPOAGUAALYEDAAL OILCAI	144C19E990E040449	8210610	97 10032	300000	0000000	316 M	
AAVrPØAAUAAL vebAAN 61 FCAF4	4AAC19E990E040449	8210610	97 10032	300000	0000000	017 M	\sim
<						>	
	Ln 1, Col 1	100%	Windows (CR	LF)	UTF-8		

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.

SQL Worksheet 1 - CLOUDMINER@UCF3-ZTZB-FA-EXT.ORACLEDEMOS.COM				
🕨 Execute 🔳 Cancel Row Limit: 100				
1				
2 sf				
SQL Worksheet 1 - CLOUDMINER@UCF3-ZTZB-FA-EXT.ORACLEDEMOS.COM				

Execute Cancel Row Limit: 100					
1					
2 select * from ;					



Example 2:

Type Ikp and press CTRL + ENTER

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



Example 3:

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

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

	E <u>x</u> ecute	Cancel	Row Limit:	100
1				
2 1	pd			



	E <u>x</u> ecute	Cancel Row Limit: 100			
2	fet	cch 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		<pre>,paaf.effective_start_date asg_latest_eff_start_date</pre>			
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_regar_employers pre			
24	, per_users pu				
25	WHERE prof person id = prof person id				
26	AND	nnnf 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** \rightarrow **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.

Program	Tools	Window	
ð 🗏 🔎		Options	Ctrl+0
Workshee		Editor Shortcuts	Ctrl+Shift+Enter
cecute 🔳 (SQL Formatter	Ctrl+Shift+F
	5	Manage Connections	Ctrl+M



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);

Editor Shortcuts	X
🔓 New Shortcut 🗙 Remove Shortcut 🚍 Format	5QL
Image: Shortcut X Remove Shortcut Format Shortcuts Image: Shortcut Image: Shortcut Image: Shortcut Image: Shortcuts Image: Shortcut Shortcut Image: Shortcut Shortcut Image: Shortcut Shortcut Image: Shortcuts Image: Shortcut	SQL Short Cut kp Expansion SELECT flv.lookup_type ,flv.lookup_code ,flv.enabled_flag ,flv.enabled_flag SPEROM fnd_lookup_values_v1 flv WHERE lookup_type = :1 AND lookup_code = nv1 (:2 ,lookup_code);
	3 Ok Apply Cancel



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 **Ikp** 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.

SQL Worksheet 1 - CLOUDMINER@UCF3-ZTZB-FA-EXT.ORACLEDEMOS.COM							
Execute Cancel Row Limit: 100							
1 SELECT flv.lookup_type							
<pre>2 ,flv.lookup_code</pre>	,flv.lookup_code						
<pre>3 ,flv.meaning</pre>	,flv.meaning						
4 ,flv.enabled_flag	,flv.enabled_flag						
5 FROM fnd_lookup_values_v1 flv	💶 Bind Variables		×				
7 .lookup code):							
8	Name	Data Type	Value				
	1	VARCHAR	EMAIL_TYPE				
	2	VARCHAR	W1				
			Apply Cancel –				
Query Output 🛄 Script Output							



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.

	Execute		Cancel	Row Limit: 100			
1							
2	SELECT	*	FROM	PER%MANAGER%			
				← PER_MANAGER_HEADCOUNT_V	FUSION	View	^
				PER_MANAGER_HEADCOUNT_V	FUSION_DYNAMIC	Synonym	
				60 PER_MANAGER_HRCHY_CF	FUSION	View	
				PER_MANAGER_HRCHY_CF	FUSION_RO	Synonym	
				60 PER_MANAGER_HRCHY_CF_DN_V	FUSION	Viev	
				PER_MANAGER_HRCHY_CF_DN_V	FUSION_DYNAMIC	Synonym	
				PER_MANAGER_HRCHY_DN	FUSION	View	
				PER_MANAGER_HRCHY_DN	FUSION_RO	Synonym	
				PER_MANAGER_HRCHY_DN	FUSION_DYNAMIC	Synonym	
				<pre>PER_MANAGER_HRCHY_DN_PKG</pre>	FUSION	Package Specification	Υ.

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.

SELECT HR_GENERAL.	
← BOOL_TO_CHAR ASSERT_CONDITION	VARCHAR2
← CHK_APPLICATION_ID	VARCHAR2
← HRMS_OBJECT	VARCHAR2
← GET_APPLICATION_SHORT_NAME	VARCHAR2
← DECODE_LOOKUP	VARCHAR2
DESCRIBE_PROCEDURE	



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

```
SELECT HR_GENERAL.DECODE_LOOKUP -- Return Type: VARCHAR2
(P_LOOKUP_TYPE => -- Mode: IN Mandatory: true Data Type: VARCHAR2
,P_LOOKUP_CODE => -- Mode: IN Mandatory: true Data Type: VARCHAR2
)
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 \rightarrow Find Database Objects.
```

OR

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

Cloud Min	er	<u> </u>		
Connections	Data	base dit Search Progra	m Tools Win	dow
8 🖿 🔳	s.*	Disconnect	Alt+C	. €
Connection N	۲	Reconnect	Ctrl+Shift+R	MINE
Connection:		Open File New SQL Worksheet	Ctrl+0 Ctrl+M	Limit:
	ø	Find Database Objects	Ctrl+B	
	×	Remove Find Database	Objects	
				-



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**.

Find Datab	ase Objects - CLOUD	MINER@UCF3-ZT2	(B-FA-E	XT.ORACLEDEMO	S.COM		>
rowse Objects							_
Object Name	PER%PERSON%N				(Find	
Owner	FUSION	 Object Type 	ALL				~
	Search On Cloud						
Name		Owner		Туре	Status	Open	
PER_DIAG_PE	RSON_INC	FUSION		PACKAGE	VALID	Open	^
PER_PERSON	5_N1	FUSION		INDEX	VALID	Open	
PER_PERSON	5_N2	FUSION		INDEX	VALID	Open	
PER_PERSON	_ADDR_USAGES_FN1_	FUSION		INDEX	VALID	Open	
PER_PERSON	_DLVRY_METHODS_N1	FUSION		INDEX	VALID	Open	
PER_PERSON	LOC_FLOW_CONFIG	FUSION		VIEW	VALID	Open	
PER_PERSON	LOC_FLOW_CONFIG	FUSION_SEED		VIEW	VALID	Open	
PER_PERSON	LOC_FLOW_CONFIG	FUSION_RO		SYNONYM	VALID	Open	
PER_PERSON	LOC_FLOW_CONFI	FUSION		INDEX	VALID	Open	
PER_PERSON	LOC_FLOW_CONFI	FUSION_SEED		INDEX	VALID	Open	
PER_PERSON	LOC_FLOW_CONFI	FUSION		INDEX	VALID	Open	
PER_PERSON	LOC_FLOW_CONFI	FUSION_SEED		INDEX	VALID	Open	
PER_PERSON	NAMES_F	FUSION		VIEW	VALID	Open	
PER_PERSON	_NAMES_F	FUSION_RO		SYNONYM	VALID	Open	
PER_PERSON	NAMES_F	FUSION_DYNAMIC		SYNONYM	VALID	Open	
PER_PERSON	NAMES_FU_SEC	FUSION		VIEW	VALID	Open	
PER_PERSON	NAMES_F_	FUSION		VIEW	VALID	Open	
PER PERSON	NAMES F	FUSION_RO		SYNONYM	VALID	Open	\sim

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.

Execute Cancel Row Limit: 100							
1							
2 PER_ALL_PEOPLE_F Quick Describe - FUSION.PER_ALL_PEOPLE_F(View)							
	Table	Column	Data Type	Nullable	₽		
	PER_ALL_PEOPLE_F	PERSON_ID	NUMBER(18,0)	No	^		
	PER_ALL_PEOPLE_F	EFFECTIVE_START_DATE	DATE	No			
	PER_ALL_PEOPLE_F	EFFECTIVE_END_DATE	DATE	No			
	PER_ALL_PEOPLE_F	BUSINESS_GROUP_ID	NUMBER(18,0)	No			
	PER_ALL_PEOPLE_F	START_DATE	DATE	No			
	PER_ALL_PEOPLE_F	APPLICANT_NUMBER	VARCHAR2(30 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE_CATEGORY	VARCHAR2(30 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE1	VARCHAR2(150 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE2	VARCHAR2(150 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE3	VARCHAR2(150 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE4	VARCHAR2(150 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE5	VARCHAR2(150 CHAR)	Yes			
	PER_ALL_PEOPLE_F	ATTRIBUTE6	VARCHAR2(150 CHAR)	Yes			



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.

Image: Trind Database Objects - CLOUDMINER@UCF3-ZTZB-FA-EXT.ORACLEDEMOS.COM X						
Browse Objects						
Object Name	PER_EMPLOYEES_CU	RRENT_X				Find
Owner	FUSION	 Object Type 	ALL			\sim
	🧹 Search On Cloud					
Name		Owner		Туре	Status	Open
PER_EMPLOYE	ES_CURRENT_X	FUSION		VIEW	VALID	Open
Matching ol	bjects: 1				C	Close

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

►	Execute Cancel Row Limit: 100
1	
2	PER EMPLOYEES CURRENT X



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

onnections Database Edit Search Program Tools Window							
■ □ □ □ ① 注 Ⅲ 2 → (月 ∈) の 光 Tr TT 三 亚 小 ◆ 目 見 見							
Connection Navigator							
Connections	View						
CLOUDMINER@UCF3-ZTZB-FA-EXT.ORACLEDEMOS.COM	View Name PER_EMPLOYEES_CURRENT_X						
	Owner FUSION						
WOO OSION, FLK_EMPEOTELS_CORRENT_X-VIEW							
l (Source Columns Triagers						
1							
	58 FROM PER ALL PEOPLE F PAF.						
	59 PER PERSONS PERSONS,						
	60 PER_ALL_ASSIGNMENTS_M A,						
	61 PER_PERSON_NAMES_F_V NAME,						
	62 PER_PERIODS_OF_SERVICE B,						
	63 PER_EMAIL_ADDRESSES EMAIL,						
	64 PER_ASSIGNMENT_SUPERVISORS_F_SUP						
	66 AND PERSONS PERSON ID = PAF. PERSON ID						
	67 AND TRUNC (SYSDATE) BETWEEN NAME.EFFECTIVE START DATE AND						
	68 NAME.EFFECTIVE_END_DATE						
	69 AND A.PERSON_ID = PAF.PERSON_ID						
	70 AND A.PRIMARY_FLAG = 'Y'						
	71 AND A.ASSIGNMENT_TYPE = 'E'						
	72 AND A.PERIOD_OF_SERVICE_ID = B.PERIOD_OF_SERVICE_ID						
	74 AND TRUNC(SYSDATE) BETWEEN A EFFECTIVE START DATE AND A EFFECTIVE END DATE						
	75 AND (B.ACTUAL TERMINATION DATE>= trunc(sysdate) or B.ACTUAL TERMINATION DATE is null)						
	76 AND B.PRIMARY_FLAG = 'Y'						
	77 AND EMAIL.EMAIL_ADDRESS_ID(+) = PAF.PRIMARY_EMAIL_ID						
	78 AND A.ASSIGNMENT_ID = SUP.ASSIGNMENT_ID (+)						
	AND SHE FFECTIVE STADE DATE (1) BETWEEN A FFECTIVE STADE DATE AND A FFECTIVE FAD DATE						

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.

Find Databa Browse Objects	ase Objects - CLC	DUDMINER@UCF3-ZTZB-FA-EX	T.ORACLEDEMOS.C	OM	×
Object Name	PAY_BALANCE_	PKG			Find
Owner FUSION V Object Type ALL					~
	Search On Cl	bud			
Name		Owner	Туре	Status	Open
PAY_BALANCE_PKG PAY_BALANCE_PKG		FUSION	PACKAGE	VALID	Open
		FUSION_DYNAMIC	SYNONYM	VALID	Open



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

►	Execute Cancel Row Limit: 100
1	
2	PAY BALANCE PKG

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

Connection Panigation	T RUSCHARY, SALANCE, 200 - Reckeye Sp	ec filoaft	inn - LNDA.CARNSDICPS-2014-PA-531.0KACL80EW05-00M
Covrectors	[1] O Rebet	3 30	peckege per_balance_pig APPEID (CROBBY_USER as
D UNON CARAGE BUCPT-2201 PN-817LORACIES/BHOS-COM	The second second second	1.2	// Albeeleer Environeppe/lon/pay/db/plagL/pay_balance_pig.gik /st_Environeppe_pt-vinib/8_50
- III BQ, Utalisheet 3		3	
- Handrey Jacobs yes - Handle Begrann	out certaint	- 1	20 C
		1	-
	- Anturnext		copyright (c) 2000, 2017, centre and/or its attiliates. All rights reserves.
	- E. set, period	1	2°
	- 🔜 est jonext		RECOCT
			Canada - Seguril
	- 🛃 stuoniext	LI	-
	- Contract Television		SAR
	- A MC JOINESI		pubelosrupkh - 25/305 Belence Ster Exit
	INFLIGTNEXTURE	LT	
	Con do com	1.4	JESCRIPTION
	and the second s	15	Proceedure and Function beaders for setrieving belance and database item
	and the later	1.0	verses using operate proof.
		1.1	
	run do ram	1.8	ACCEPTED (20-MOR-VEVE)
	fun do item drect	1.8	thabara 10/03/14 - Added sizer definit samle.
	opt_neive	28	shahara - 11/28/14 - Added get definits ran definit.
	-+) get_ulue		thebare 94/00/12 - Resound and value by startbates
			thabara M/10/12 - Added p_retro_component_id to ret_latert_action_id().
			thabara 02/02/12 - Added overloaded run_db_iten.
	- det_adue_betch	24	thabara 12/00/11 - Adoud overloaded run_db_item with content param-
	Ostinare	8	thaters 07/21/11 - Exposed pet_latert_ection_id.
	- E get_usive_batch	16	thabara 02/18/11 - Ray 11797047.
	ort_relve_betch	27	thabara 00/10/00 - Minocowerge thabara_hoprecent_pay_isvop) from
	- a far law of cares	23	at rusionappa pt-homma
	get janet action je	2.9	thatava 08/18/08 - Bissing consit/wilt.
	deur defte sete	210	thabara 13/17/28 - ngl hash mpport.
	- I consist of action	2.1	stature 13/12/20 - Adding get result values () -
	- Cost believes dates	22	chabers 12/17/97 - sdstog scont.
			thabara 11/17/34 - Removing det_value_by_attribute_set.
		21	thatars 00/11/97 - updates to date note det_value.
		23	INTITO POINT -
		2	Charles 10, 100, 000 - Textus (status) market and down substance with 117 day
		21	teacess re-ave-rees sance inclusiveries, copied rice presidentias ris. 54.
			· ·
		2	_
			the balance of a second
		14	idefined in lance to use defined balance, defined in lance, tolkings,
		12	halana na'na minar
		1	12
		1	tone a balance value rab is table of a balance value ran
		4	index be binery integer:
		-	and a second sec
			type t detailed bal out sec is record
1			
		_	



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	1					
2	select	* From fnd lookun values vi.				
3	Deree	rom ina_ioskap_, alaco_ii,				
4	select	* from FND PROFILE OFTIONS 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	fetc	h person details				
17	SELECT	ppf.person_id				
18		,ppf.person_number				
19		,ppnf.first_name				
20		,ppnf.last_name				
21		, ppl.sex				
22		, ppi.maritai_status				
23		, ppos.aate_start nire_aate				
24		, Die Haarpane				
26		puttotiname naar amail adamase				
27		ped seinment id				
28		, baaf.assignment_lumber				
29		bad 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	-				



7.2. Multiple Worksheets

To create a new worksheet, select **Database** \rightarrow **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.

🖅 Run			×		
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.				
Open:	%APPDATA%		×.		
	ОК	Cancel Browse			

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.

📕 🛛 🛃 = 🛛 Cloud M	📙 🖂 📮 🛛 Cloud Miner					
File Home Share	ile Home Share View					
← → • ↑ 🖡 « A	AppData → Roaming → Cloud Miner → ひ	∽ Search Cloud Miner				
A Quick access	Name	Date modified	Туре	Size		
Desktop 🖈	sessions	1/12/2021 3:25 AM	File folder			
	stylesheets	1/5/2021 8:39 AM	File folder			
	autoexpand	1/13/2021 11:27 AM	XML Document			
🖆 Documents 🖈	CloudMiner.settings	7/21/2020 8:19 AM	SETTINGS File			
Network Pictures 🖈		1/13/2021 11:32 AM	XML Document			
📜 bluetooth	dit-shortcuts	1/8/2021 12:59 PM	XML Document			
CloudMiner	Formatter.settings	7/21/2020 8:19 AM	SETTINGS File			
file	mtratox	1/8/2021 12:59 PM	Text Document			
New folder	runonce	1/11/2021 6:58 AM	Text Document			
	SecManager.settings	1/13/2021 10:53 AM	SETTINGS File			
OneDrive	userlastlogindm.properties	1/13/2021 11:31 AM	PROPERTIES File			



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.

	E <u>x</u> ecute	Cancel	Row Limit:	100
1				
2	demo			

```
Execute E Cancel Row Limit: 100
 1
 2 -- Simple Query
 3 select * from FND_PROFILE_OPTIONS_VL;
 4
 5 -- Another Query
 6 SELECT * FROM HR LOOKUPS WHERE TAG IS NOT NULL;
 7
 8 -- Lookup query for formatting, bind variable
 9 SELECT flv.lookup_type
10
          ,flv.lookup_code
11
          ,flv.meaning
          ,flv.enabled_flag
12
13 FROM
          fnd_lookup_values_vl flv
14 WHERE lookup_type = :1
15 AND
          lookup_code = nvl (:2
16
                              ,lookup_code);
17
18 -- Quick code editor features
19 SELECT * FROM PER&MANAGER&
20
21 -- fetch person details
22 SELECT ppf.person_id
23
          ,ppf.person_number
24
         ,ppnf.first_name
25
          ,ppnf.last_name
26
          ,ppl.sex
27
          ,ppl.marital_status
28
          ,ppos.date_start hire_date
29
          ,ple.name legal_employer
30
          ,pu.username
          ,peav.email_address
31
          ,paaf.assignment_id
32
▲¥
Ouery Output 🖂 Casiak Outp
```