Practice: Running SQL Statements in Oracle Machine Learning

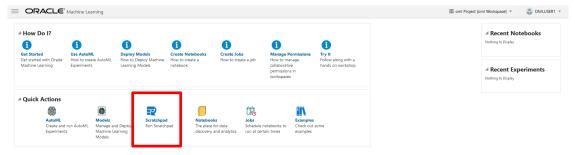
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Overview

In this practice, you create SQL scripts in Oracle Machine Learning.

Tasks

- Log into your <u>Oracle Cloud Free Tier Account</u>
- 2. Navigate to the **Oracle Autonomous Databases** home page where your instance is listed.
 - a. Click your Data Warehouse instance name.
 - b. Click the **Service Console** option.
 - c. If required, log in as the **admin** user. Here, you are signing in to the **Oracle Autonomous Data Warehouse** console.
 - d. On the left hand side menu, click **Administration**.
 - e. Click Manage Oracle ML Users.
 - f. If required, log in as the **admin** user. Here, you are signing in to the Oracle Machine Learning console.
 - g. Click **Home** on the top-right corner.
 - h. Log in as the **OMLUSER1** user. This time, you are signing in to the Oracle Machine Learning console as the **OMLUSER1** user.
- Perform these tasks to run SQL statements.
 - a. On the Oracle Machine Learning home page, click Scratchpad.



b. If there are SQL statements from a previous run, click **Clear notebook** and click **OK** to clear the scratchpad.

c. Enter the SQL statement in the SQL Query Scratchpad and press **Shift + Enter**.

Select * from TAB;

The result is displayed as follows:



d. Enter the SQL statement and press **Shift + Enter**.



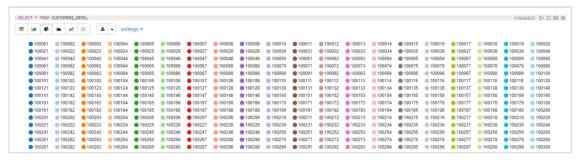


- 4. Perform these tasks to visualize data using Oracle Machine Leaning.
 - a. Continue from the previous step and click any one of the chart options.

For example, next to Bar Chart is Pie Chart. Click that.



b. A corresponding chart is displayed.



c. If you want to change the X and Y axis, click **Settings** and drag and drop the columns for visualizations as shown below.

For example, click the "x" of all the fields in Keys, Groups, and Values. You will see No Data Available.

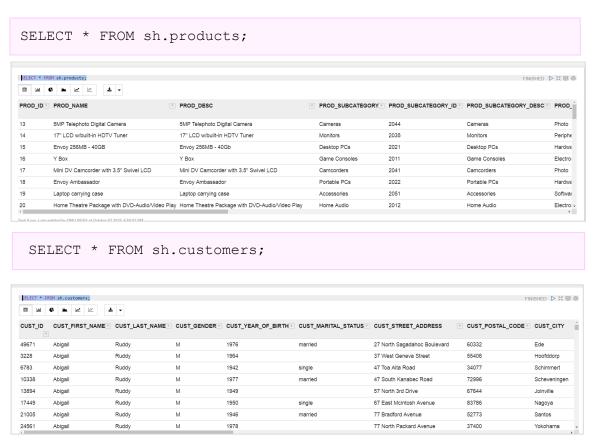
Then, drag Cust_Gender into Keys, Education into Groups, and Cus_Credit_Limit into Values.

In Values, click Cust_Credit_Limit. You will see a drop-down list of different options. Select Count.

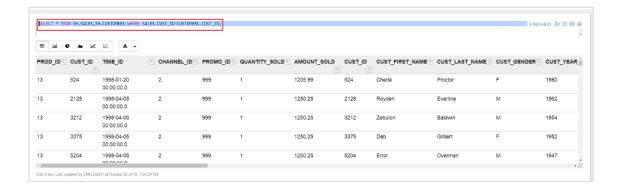
Your results might look like this:



d. Enter the SQL statements one by one in the SQL Query Scratchpad and press **Shift + Enter** to see the results as shown below.



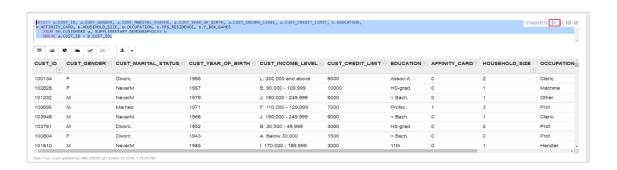
SELECT * FROM SH.SALES,SH.CUSTOMERS WHERE SALES.CUST_ID=CUSTOMERS.CUST_ID;



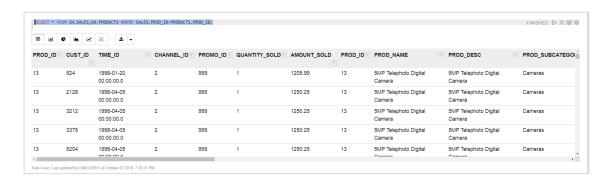
SELECT a.CUST ID, a.CUST GENDER, a.CUST MARITAL STATUS,

- a.CUST_YEAR_OF_BIRTH, a.CUST_INCOME_LEVEL,
- a.CUST CREDIT LIMIT, b.EDUCATION,
- b.AFFINITY CARD, b.HOUSEHOLD SIZE, b.OCCUPATION,
- b.YRS RESIDENCE, b.Y BOX GAMES

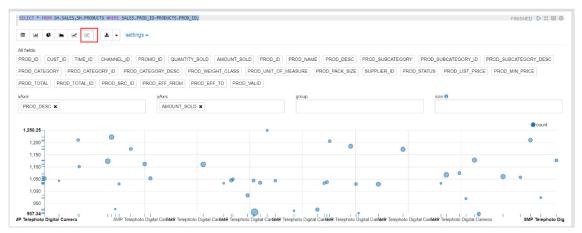
FROM SH.CUSTOMERS a, SUPPLEMENTARY_DEMOGRAPHICS3 b
WHERE a.CUST_ID = b.CUST_ID;



SELECT * FROM SH.SALES, SH.PRODUCTS WHERE SALES.PROD ID=PRODUCTS.PROD ID;







To see the results as shown in the previous screenshot, click **settings**. It will show you all the fields.

Drag PROD_DESC into the xAxis field, and AMOUNT_SOLD into the yAxis field.

This way, you can use the **Run SQL Statement** option to run SQL statements and visualize data.

This completes the task of running a SQL statement.

- 5. Create a new database connection in Oracle SQL Developer installed on your local system by using the following details, and query the tables.
 - a. Enter the connection details as follows:

Connection Name: OMLUSER1

Username: OMLUSER1

Password: The password you specified during user

creation

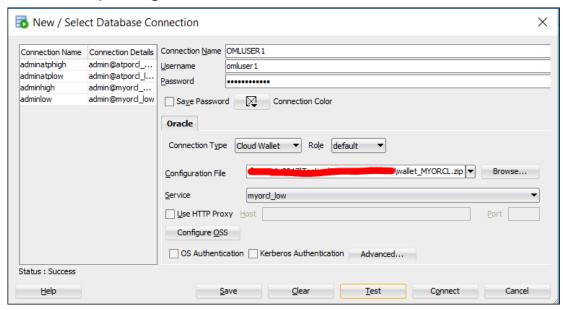
Connection Type: Cloud Wallet (or Cloud PDB)

Configuration File: Enter the full path to the wallet file you downloaded before or **click**

the Browse button to point to the location of the file.

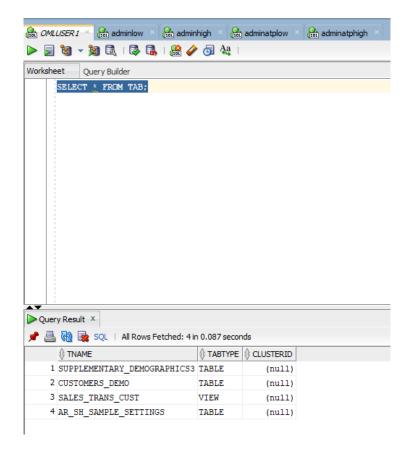
Service: There are three preconfigured database services for each database. Pick **myorcl_low** for this practice.

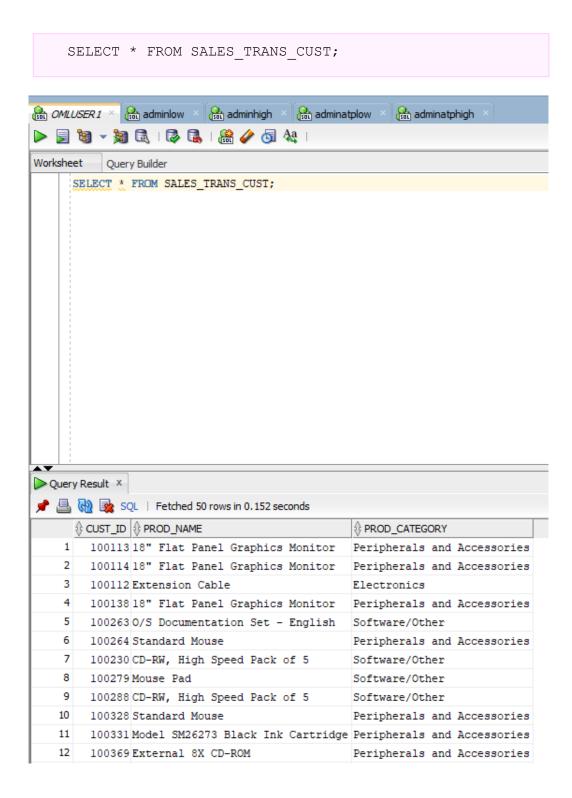
b. Test your connection by clicking the **Test** button. If it succeeds, save your connection information by clicking **Save.** Click **Connect** to connect as user OMLUSER1.



c. Run the following SQL statements to check the tables in OMLUSER1 schema.







You have now successfully connected to the OMLUSER1 user and are able to fetch the data from the table.

This completes the practice for running SQL statements in Oracle Machine Learning.

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