Practice: Creating SQL Scripts in Oracle Machine Learning

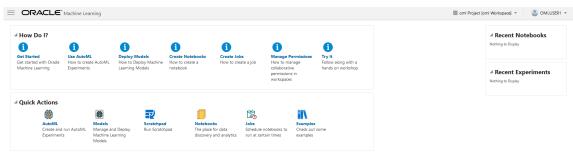
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Overview

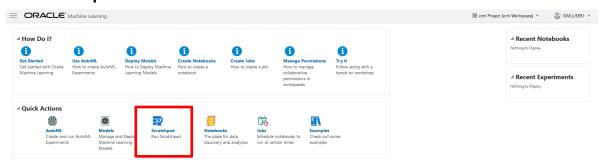
In this practice, you create SQL scripts in Oracle Machine Learning.

Tasks

- 1. Log into your Oracle Cloud Free Tier Account
- 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.
 - 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. If you had signed out, you will be prompted to log in. Log in as the **OMLUSER1** user.
 - i. Ensure you are in the MyFirstproject[OMLUSER1SAMPLE] project and workspace, which was created in the previous project. If not, change the project using the Select Project menu option from the project/workspace drop-down list.



3. Click Scratchpad.



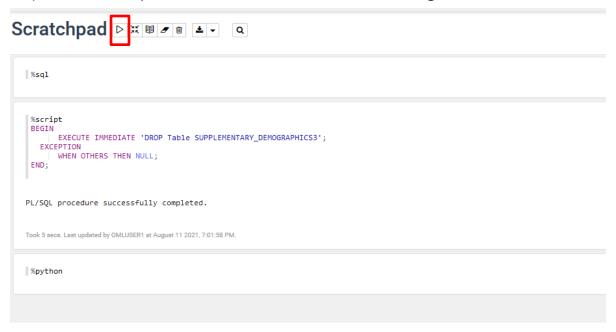
You will find the %script tag in the beginning of the scratchpad. Do not delete it. Let this be the first line. Copy and paste the following SQL script into the scratchpad:

```
%script
BEGIN

EXECUTE IMMEDIATE 'DROP Table
SUPPLEMENTARY_DEMOGRAPHICS3';
EXCEPTION

WHEN OTHERS THEN NULL;
END;
```

4. Click **Run** next to the SQL Script Scratchpad and click **OK** in the confirmation window. The script executes and you will see the successful execution message.



5. Copy and paste the following SQL scripts into the SQL scratchpad, run them one by one, and see the execution message.

Scripts:

a. Create the **SUPPLEMENTARY_DEMOGRAPHICS3** table:

```
*SCRIPT

CREATE Table SUPPLEMENTARY_DEMOGRAPHICS3

AS (SELECT AFFINITY_CARD, BOOKKEEPING_APPLICATION,
BULK_PACK_DISKETTES, CUST_ID, EDUCATION,
FLAT_PANEL MONITOR, HOME THEATER PACKAGE,
HOUSEHOLD_SIZE, OCCUPATION, OS_DOC_SET_KANJI,
PRINTER_SUPPLIES, YRS_RESIDENCE, Y_BOX_GAMES
FROM SH.SUPPLEMENTARY_DEMOGRAPHICS);

**Notice**

TRUST SECTION SOURCESTING PROGRAMMICSS

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```

b. Create the **CUSTOMERS_DEMO** table:

```
%script
-- Drop previous table
BEGIN

EXECUTE IMMEDIATE 'DROP Table
CUSTOMERS_DEMO';

EXCEPTION

WHEN OTHERS THEN NULL;
END;
```

```
-- JOIN SH.CUSTOMERS and SUPPLEMENTARY_DEMOGRAPHICS tables to create more DEMO view of customer

Create table CUSTOMERS_DEMO as 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;
```

```
Secript

- Drop previous table

ECLIFICATION PROFITS INFORMATION PROFITS DEPOTE TO TABLE CUSTOMERS_DEPOT;

EXCEPTION
SHEW OTHERS THEN MULL;

DO,

- SOUR SILUSTOMERS and SUPPLIBERTIARY_DEMOGRAPHICS tables to create more DEMO view of customer.

- Create table CUSTOMERS_DEMO as SILECT a.CUST_ID, a.CUST_MERITAL_STATUS, a.CUST_VEAR_OF_BIRTH, a.CUST_INCOME_LEVEL, a.CUST_CREDIT_LIMIT, b.EDUCATION, b.AFFINITY_CARD, b.HOUSEHOLD_SIZE, b.OCCUPATION, b.

- VER_RESIDENCE, b.V.DOS_CARRIARY_DEMOGRAPHICS2 b.

- WELL ALL STATUS AS A SUPPLIED OF TABLE STATUS.

- SUPPLIED TO TABLE STATUS AS A SUPPLIED OF TABLE STATUS.

- Table CUSTOMERS_DEMO as CLUST_ID.

- Table CUSTOMERS_DEMO created.

- Table CUSTOMERS_DEMO created.

- Table CUSTOMERS_DEMO created.

- Table CUSTOMERS_DEMO created.
```

c. Create the View for Sales Transactional data:

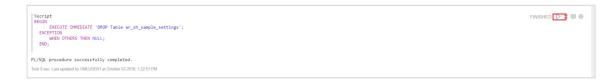
```
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```

d. Drop and clean the Sample Settings table:

```
%script
BEGIN

EXECUTE IMMEDIATE 'DROP Table ar_sh_sample_settings';
EXCEPTION

WHEN OTHERS THEN NULL;
END;
```



e. Create the Sample Settings table:

```
%script
CREATE TABLE ar_sh_sample_settings (
   setting_name VARCHAR2(30),
   setting_value VARCHAR2(4000));
```



f. Develop the Model Settings:

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```
%script
BEGIN

INSERT INTO ar_sh_sample_settings VALUES
  (dbms_data_mining.asso_min_support, 0.1);
INSERT INTO ar_sh_sample_settings VALUES
  (dbms_data_mining.asso_min_confidence, 0.1);
INSERT INTO ar_sh_sample_settings VALUES
  (dbms_data_mining.asso_max_rule_length, 3);
INSERT INTO ar_sh_sample_settings VALUES
  (dbms_data_mining.odms_item_id_column_name,
'PROD_NAME');
COMMIT;
END;
```

6. SQL scripts can be saved on your system as a .json file by clicking the **Export the notebook** option.



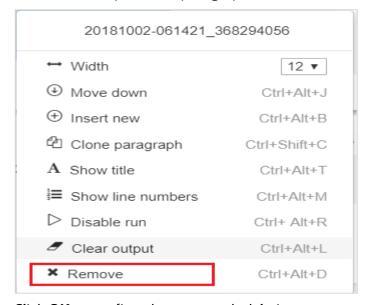
a. Open the downloaded .json file and check the script.

```
G("paragraphs":[{"text":"%script\nBEGIN\n
EXECUTE IMMEDIATE 'DROF Table SUPPLEMENTARY DEMOGRAPHICS3';\n EXCEPTION\n
WHEN OTHERS THEN NULL\nEBDI.","user':"cMLUSERL","dateUpdated":"2018-10-02T06:44:30+0000",
"config":["colWidth":12,"graph":["mode":"table","height":300,"optionOpen":false,"keys":[],"values":[],"groups":[],"scatter":[}},"enabled":true,"editorMo
```

7. You can clear the output by clicking at the right corner.



8. To remove the particular paragraph, click **Remove**.

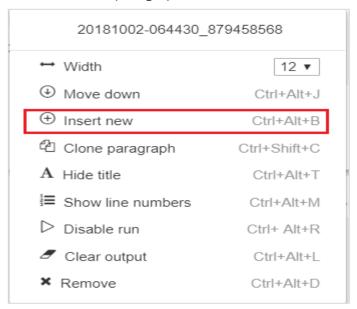


9. Click **OK** to confirm the paragraph deletion.



10. After you click **OK**, it will automatically delete and save it.

11. To create a new paragraph, click **Insert new** as shown below.





The New paragraph has been created successfully.

12. To delete all the paragraphs, click **Clear notebook** as shown below.





All the paragraphs have been deleted successfully.

This completes the practice for creating SQL scripts in Oracle Machine Learning.