**Oracle Database creation instructions**

To set up an Oracle database for Spotify streaming data, follow these steps using the provided SQL script files:

1. The first step is creating a user called “asgmt” with password “asgmtPassword” that we will use to connect to the Oracle database without needing to be sysadmin. Here are the steps:
   1. Open a command prompt window with administrative privileges. Run the command line 'sqlplus / as sysdba.'
   2. Execute the following commands to create a new user named "asgmt" with the password "asgmtPassword." This user will have the necessary privileges to connect and perform operations without sysadmin rights.

CREATE USER asgmt IDENTIFIED BY asgmtPassword;

GRANT CONNECT, RESOURCE, UNLIMITED TABLESPACE, CREATE VIEW, CREATE TRIGGER, CREATE PROCEDURE TO asgmt;

Ensure the results match the provided screenshot:

A screenshot of a computer

Description automatically generated

1. Now, open the ‘Oracle SQL Developer’ tool in the Oracle tools folder. You should see something like this:

A screenshot of a computer

Description automatically generated

Follow these steps to create a new connection named 'Assignment2 Connection' that connects to the local Oracle database instance as 'asgmt' using the password 'asgmtPassword.’:

* 1. A screenshot of a computer

     Description automatically generatedClick on the new connection button. You should see something like this:
  2. Fill in the form with the following details as shown in the screenshot:

Name: Assignment2 Connection

Username: asgmt

Password: asgmtPassword

Database Type: Oracle

Hostname, Port, SID: Adjust according to your computer's settings.

* 1. Click the "Test" button to verify the connection status. Once successful, click "Connect."
  2. Once the connection is established, open it (provide the password for your new user) to verify the successful connection.

1. Now, execute the provided SQL script files in sequence. Once all the files have been executed, the Oracle database will be successfully created.
   1. A screenshot of a computer

      Description automatically generatedFirstly, click on the "File" and “Open” in the top-left corner of ‘Oracle SQL Developer’, locate the provided "Original tables creation script.sql" file, open it, and click the "Run Script" button. The successful execution should result in a screen like the screenshot below:
   2. A screenshot of a computer

      Description automatically generatedThen, sequentially open and execute the ten data scripts within the "Generate Data" folder. The successful execution should result in a screen like the screenshot below:
   3. A screenshot of a computer

      Description automatically generatedSubsequently, open and execute the "Views and History Tables.sql" file followed by the "Triggers.sql" file. The successful execution should result in a screen like the screenshot below:
   4. Now, all the tables, test data, views, history tables, and triggers utilized by this Oracle database for Spotify streaming data have been successfully incorporated into this connection.
2. A screenshot of a computer program

   Description automatically generated(Additional Step) You can also choose to open the "test.sql" file and sequentially execute the nine sets of insert, update, and delete commands within. Observe the corresponding changes in data within the views, original tables, and history tables. When making corresponding insert, update, and delete modifications in the Access frontend, the database will undergo changes as demonstrated by this test file.