**Instructions to run the test:**

I used Oracle 19C and Oracle sql developer on my windows 10 OS.

* **Folder Name: ‘OacleCodeChallenge-JyotiMali’**
* **Open Oracle SQL developer**
* **To execute question 1 from the test:**

**(1. Create the necessary data structures to contain the data specified in the**

**Appendix ensuring that data integrity is enforced)**

* **Create table ‘Departments’**:
* Open ‘1 Department Table Data Structure.sql’ file in Oracle SQL developer
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Generate Table ‘Departments’

* **Create table ‘Employees’:**
* Open ‘1 Employees Table Data Structure.sql’ file in Oracle SQL developer
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Generate Table ‘Employees’

* **To execute question 2 from the test :**

**(2. Populate the Departments and Employees data structures using the data**

**Specified in the Appendix)**

* **Populate data into table ‘Departments’:**
* Open ‘2 Populate data into Departments Table.sql’ file in Oracle SQL developer
* Select all statements/queries
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Data populated successfully in the table ‘Departments’

* **Populate data into Employees:**
* Open ‘2 Populate data into Employees Table.sql’ file in Oracle SQL developer
* Select all statements/queries
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Data populated successfully in the table ‘Employees

* **Compile Exception package:**
* Open ‘EXCEPTIONSPACK.pls’ file in Oracle SQL developer
* Click on ‘Complie’ button

Result:

Compiled successfully

* **Compile package specification which contain procedures definition:**
* Open ‘PACKAGE\_EMP\_DEPT.pls’ file in Oracle SQL developer
* Click on ‘Complie’ button

Result:

Compiled successfully

* **Compile package body which contain procedures definition:**
* Open ‘PACKAGE\_EMP\_DEPT\_Body.pls’ file in Oracle SQL developer
* Click on ‘Complie’ button

Result:

Compiled successfully

* **To execute question 3 from the test:**

**(3. Create an appropriate executable database object to allow an Employee to be**

**Created)**

* Open ‘3 Inser\_New\_Employee\_Call procedure.sql’ file in Oracle SQL developer
* Set values to variables V\_emp\_nm,V\_emp\_job,V\_emp\_mng\_id,V\_emp\_dte\_hire,V\_emp\_salary,V\_emp\_dept\_id. (Note: The values are already set. You can change if you like to change)
* Select all statements/queries
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Display success /error message

Note: Please select all statements to execute procedure successfully. If statement ‘set serveroutput on;’ has not run then statement ‘dbms\_output.put\_line()’may not run.

* **To execute question 4 from the test:**

**(4. Create an appropriate executable database object to allow the Salary for an**

**Employee to be increased or decreased by a percentage)**

* Open ‘4 increase\_salary\_Call\_Procedure.sql’ file in Oracle SQL developer
* Set values to variables V\_sal\_per and V\_emp\_id\_salary

(Note: The values are already set. You can change if you like to change)

* Select all statements/queries
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Display success /error message

Note: Please select all statements to execute procedure successfully. If statement ‘set serveroutput on;’ has not run then statement ‘dbms\_output.put\_line()’may not run.

* **To execute question 5 from the test:**

**(5. Create an appropriate executable database object to allow the transfer of an**

**Employee to a different Department)**

* Open ‘5 Change\_Emp\_Dept\_procedure.sql’ file in Oracle SQL developer
* Set values to variables v\_emp\_id\_dept,v\_dept\_name

(Note: The values are already set. You can change if you like to change)

* Select all statements/queries
* Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Display success /error message

Note: Please select all statements to execute procedure successfully. If statement ‘set serveroutput on;’ has not run then statement ‘dbms\_output.put\_line()’may not run.

* **To execute question 6 from the test:**

(6. Create an appropriate executable database object to return the Salary for an

Employee.)

* Open ‘6 Emp\_salary\_ Call Function.sql’ file in Oracle SQL developer
* Set values to variables V\_emp\_idS

(Note: The values are already set. You can change if you like to change)

* Select all statements/queries >> Click on green ‘Run’ button
* Dialog box pop up to select connection. So, select a connection

Result:

Display success /error message

Note: Please select all statements to execute procedure successfully. If statement ‘set serveroutput on;’ has not run then statement ‘dbms\_output.put\_line()’may not run.

* **To execute question 7 from the test:**

**(7. Write a report to show all Employees for a Department)**

* Right click on ‘User Defined Reports’ from ‘Report’ panel
* Click on ‘Open Report’
* Browse ‘Report\_allEmployees\_for \_ a\_department.xml’ file and click on OK
* Click on a link ‘Employees\_fo\_ Department’ showing under ‘User Defined Reports’
* Dialog box pop up to select connection. So, select a connection
* Enter department name into ‘value’ box
* Click on ‘Apply’

Result:

Display records if there are any records in the table

* **To execute question 8 from the test:**

**8. Write a report to show the total of Employee Salary for a Department**

* Right click on ‘User Defined Reports’ from ‘Report’ panel
* Click on ‘Open Report’
* Browse ‘Report\_totalof\_employee\_salary\_for\_a\_department.xml’ file and click on OK
* Click on a link ‘Total\_Salary\_of\_department’ showing under ‘User Defined Reports’
* Dialog box pop up to select connection. So, select a connection
* Enter department name into ‘value’ box
* Click on ‘Apply’

Result:

Display records if there are any records in the table