

ASSIGNMENT 2

NAME: Aishee Bhattacharya

BATCH: DXC-262-Analytics-B12-Azure

DATE: 31/05/2022

Problem statement:

Global-tech incorporation is leading Biotech & Medical distribution company, has decided to migrate their data warehouse (around volume of 300TB uncompressed) to Cloud. Also, this organization has decided to migrate all downstream applications to Azure. Since its COVID –pandemic situation, hence its critical time & ETA is very less, the whole migration had to happen seamlessly, Using Azure cloud Service – we have to develop solutions for Global-tech. and migration activity to be performed.

Case study: Create a table called "globetechb231" and insert below data into it: emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following SQL statements:

```
26 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
27 VALUES(65271,'WADE','SALESMAN',66928,to_date('1991-02-22','yyyy-mm-dd'),1350.00,600.00,3001);
28
29 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
30 VALUES(66564,'MADEN','SALESMAN',66928,to_date('1991-09-28','yyyy-mm-dd'),1350.00,1500.00,3001);
31
32 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
33 VALUES(66584,'TUCKER','SALESMAN',66928,to_date('1991-09-08','yyyy-mm-dd'),1600.00,0.00,3001);
34
35 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
36 VALUES(68736,'ADRES','CLERK',67858,to_date('1997-05-23','yyyy-mm-dd'),1200.00,null,2001);
37
38 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
39 VALUES(69000,'JULIUS','CLERK',66928,to_date('1991-12-03','yyyy-mm-dd'),1850.00,null,3001);
40
41 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
42 VALUES(69824,'MARKER','CLERK',67832,to_date('1992-01-23','yyyy-mm-dd'),1400.00,null,1001);
43
44 SELECT*FROM globetechb231;
45
```

The table view shows the following data:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
68319	KAYLING	PRESIDENT	-	18-NOV-91	6000	-	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001
67823	CLARE	MANAGER	68319	06-SEP-91	2550	-	1001
65646	JONAS	MANAGER	68319	02-APR-91	2957	-	2001
67858	SCARLET	ANALYST	65646	19-APR-97	3100	-	2001
69062	FRANK	ANALYST	65646	03-DEC-91	3100	-	2001
63679	SANDRINE	CLERK	69062	18-DEC-91	900	-	2001
64989	ADELVIN	SALESMAN	66928	20-FEB-91	1700	400	3001
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

Case 9: From the following table, write a SQL query to find the employee ID, salary, and commission of all the employees

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

31
32 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
33 VALUES(66584,'TUCKER','SALESMAN',66928,to_date('1991-09-08','yyyy-mm-dd'),1600.00,0.00,3001);
34
35 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
36 VALUES(68736,'ADRIES','CLERK',67858,to_date('1997-05-23','yyyy-mm-dd'),1200.00,null,2001);
37
38 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
39 VALUES(69000,'JULIUS','CLERK',66928,to_date('1991-12-03','yyyy-mm-dd'),1050.00,null,3001);
40
41 INSERT INTO globetechb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
42 VALUES(69824,'MARKER','CLERK',67832,to_date('1992-01-23','yyyy-mm-dd'),1400.00,null,1001);
43
44 SELECT*FROM globetechb231;
45
46 SELECT
47     emp_id,
48     salary,
49     commission
50 FROM globetechb231;

```

The results table shows the following data:

EMP_ID	SALARY	COMMISSION
68319	6000	-
66928	2750	-
67823	2550	-
65646	2957	-
67858	3100	-
69062	3100	-
63679	900	-
64989	1700	400
65271	1350	600

Case 10: From the following table, write a SQL query to find the unique department with jobs. Return department ID, Job name.

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

1 SELECT DISTINCT dep_id,
2     job_name
3 FROM globetechb231;
4
5

```

The results table shows the following data:

EMP_ID	SALARY	COMMISSION
68319	6000	-
66928	2750	-
67823	2550	-
65646	2957	-
67858	3100	-
69062	3100	-
63679	900	-
64989	1700	400
65271	1350	600

Case 11: From the following table, write a SQL query to find those employees who do not belong to the department 2001. Return complete information about the employees.

The screenshot shows the Oracle Live SQL interface. The SQL query entered is:

```
1 SELECT *
2 FROM globetechb231
3 WHERE dep_id NOT IN (2001);
4
5
```

The results table displays the following data:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
68319	KAYLING	PRESIDENT	-	18-NOV-91	6000	-	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001
67823	CLARE	MANAGER	68319	06-SEP-91	2550	-	1001
64989	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001
66564	HADEN	SALESMAN	66928	28-SEP-91	1350	1500	3001
66584	TUCKER	SALESMAN	66928	08-SEP-91	1600	0	3001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
60824	HARKER	CLERK	67823	23-JAN-92	1600	-	1001

At the bottom of the interface, there is a footer with copyright information: © 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. It also mentions "Built with ❤️ using Oracle APEX - Privacy - Terms of Use". The system tray at the bottom shows the date and time as 15:43 31-05-2022.

Case 13: From the following table, write a SQL query to compute the average salary of those employees who work as 'ANALYST'. Return average salary.

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```
1 SELECT avg(salary)
2 FROM globetechb231
3 WHERE job_name='ANALYST';
4
5
```

The results pane displays the output of the query:

AVG(SALARY)
3188

Below the table, there is a link to "Download CSV". The interface also shows the Oracle Live SQL logo, navigation links (Feedback, Help), and a user profile (aisheeb122000@gmail.com). The bottom status bar indicates the version (© 2022 Oracle - Live SQL 22.1.3) and the database (running Oracle Database 19c Enterprise Edition - 19.14.0.0.0).

Case 14: From the following table, write a SQL query to find the details of the employee 'BLAZE'

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```
1 SELECT *
2 FROM globetechb231
3 WHERE emp_name='BLAZE';
4
5
```

The results pane displays the output of the query as a table:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001

Below the table, there is a link to "Download CSV". The interface also shows the Oracle Live SQL logo, navigation links (Feedback, Help), and a user profile (aisheeb122000@gmail.com). The bottom status bar indicates the version (© 2022 Oracle - Live SQL 22.1.3) and the database (running Oracle Database 19c Enterprise Edition - 19.14.0.0.0).

Case 15: From the following table, write a SQL query to find those employees whose commission is more than their salary. Return complete information about the employees

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

1 SELECT *
2 FROM globetechb231
3 WHERE commission > salary;
4
5

```

The results table displays the following data:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
66564	MADEN	SALESMAN	66928	28-SEP-91	1350	1500	3001

Below the table, there is a link to "Download CSV". The footer of the interface shows the copyright information: "© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym".

Case 16: From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving 25% increment. Return complete information about the employees

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

1 SELECT *
2 FROM globetechb231
3 WHERE (1.25*salary) > 3000;
4
5

```

The results table displays the following data:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
68319	KAYLING	PRESIDENT	-	18-NOV-91	6000	-	1001
66928	BLAZE	MANAGER	68319	01-MAY-91	2750	-	3001
67823	CLARE	MANAGER	68319	06-SEP-91	2550	-	1001
65646	JONAS	MANAGER	68319	02-APR-91	2957	-	2001
67858	SCARLET	ANALYST	65646	19-APR-97	3100	-	2001
69062	FRANK	ANALYST	65646	03-DEC-91	3100	-	2001

Below the table, there is a link to "Download CSV" and a message stating "6 rows selected.". The footer of the interface shows the copyright information: "© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym".

Case 17: From the following table, write a SQL query to find the names of the employees whose length is six. Return employee name

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

1 SELECT emp_name
2 FROM globetech231
3 WHERE LENGTH(emp_name)=6;
4
5

```

The results pane displays a table with 5 rows selected:

EMP_NAME
ADELYN
TUCKER
ADAMS
JULIUS
MARKER

Download CSV
5 rows selected.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

Case 18: From the following table, write a SQL query to find those employees who joined in the month January. Return complete information about the employees.

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```

1 SELECT *
2 FROM globetech231
3 WHERE to_char(hire_date,'mon')='jan';
4
5

```

The results pane displays a table with 1 row selected:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEPT_ID
69824	MARKER	CLERK	67832	23-JAN-92	1400	-	1001

Download CSV

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

Case 19: From the following table, write a SQL query to find the name of employees and their manager separated by the string 'works for'.

Oracle Live SQL - SQL Worksheet

https://livesql.oracle.com/apex/?p=590:1:1879230650568:NO:RP=

Live SQL

Feedback Help aisheeb122000@gmail.com

SQL Worksheet

Clear Find Actions Save Run

```

1 SELECT e.emp_name || ' works for ' || m.emp_name
2 FROM globetechb231 e,
3      globetechb231 m
4 WHERE e.manager_id = m.emp_id;
5
6

```

E_EMP_NAME 'WORKS FOR' M_EMP_NAME
BLAZE works for KAYLING
CLARE works for KAYLING
JONAS works for KAYLING
ADELYN works for BLAZE
WADE works for BLAZE
MADEN works for BLAZE
TUCKER works for BLAZE
JULIUS works for BLAZE
SZARI works for JONAS

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with using Oracle APEX - Privacy - Terms of Use

32°C Haze

ENG IN 16:26 31-05-2022

Case 20: From the following table, write a SQL query to find those employees whose designation is 'CLERK'. Return complete information about the employees.

Oracle Live SQL - SQL Worksheet

https://livesql.oracle.com/apex/?p=590:1:1879230650568:NO:RP=

Live SQL

Feedback Help aisheeb122000@gmail.com

SQL Worksheet

Clear Find Actions Save Run

```

1 SELECT *
2 FROM globetechb231
3 WHERE job_name = 'CLERK';
4
5

```

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEPT_ID
63679	SANDRINE	CLERK	69062	18-DEC-91	900	-	2001
68736	ADRIEN	CLERK	67858	23-MAY-97	1200	-	2001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
69824	MARKE	CLERK	67832	23-JAN-92	1400	-	1001

Download CSV
4 rows selected.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with using Oracle APEX - Privacy - Terms of Use

32°C Haze

ENG IN 16:29 31-05-2022