

ASSIGNMENT 1

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Batch: DXC-262-Analytics-B12-Azure

Date: 30-05-2022

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:

Case 1: Create a table called "globetechtb231" and insert below data into it:

emp_id | emp_name | job_name | manager_id | hire_date | salary | commission | dep_id

-----+-----+-----+-----+-----+-----+-----+-----

68319	KAYLING	PRESIDENT		1991-11-18	6000.00		1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00		3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00		1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00		2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00		2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00		2001
63679	SANDRINE	CLERK	69062	1990-12-18	900.00		2001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00		2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00		3001

69324 | MARKER | CLERK | 67832 | 1992-01-23 | 1400.00 | 1001

Oracle Live SQL - SQL Worksheet

https://livesql.oracle.com/apex/?p=590:1:4674104090212:NO:RP:

Live SQL

Feedback Help asheeb122000@gmail.com

SQL Worksheet

Clear Find Actions Save Run

1 DESC globaltechtb231;
2

ORA-20001: object GLOBALTECHTB231 does not exist

Table GLOBTECHTB231

Column	Type	Length	Precision	Scale	Nullable
EMP_ID	NUMBER	22		0	No
EMP_NAME	VARCHAR2	225			No
JOB_NAME	VARCHAR2	225			No
MANAGER_ID	NUMBER	22		0	Yes
HIRE_DATE	DATE	7			Yes
SALARY	NUMBER	22		0	No
COMMISSION	NUMBER	22		0	Yes
DEPT_ID	NUMBER	22		0	No

< All Objects Query >

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Oracle Live SQL - SQL Worksheet

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Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
22 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
23 VALUES(64989,'ADELYN','SALESMAN',66928,to_date('1991-02-20','yyyy-mm-dd'),1700,400,3001);
24
25 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
26 VALUES(65271,'WADE','SALESMAN',66928,to_date('1991-02-22','yyyy-mm-dd'),1350,600,3001);
27
28 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
29 VALUES(66564,'MADEN','SALESMAN',66928,to_date('1991-09-28','yyyy-mm-dd'),1350,1500,3001);
30
31 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
32 VALUES(66584,'TUCKER','SALESMAN',66928,to_date('1991-09-08','yyyy-mm-dd'),1600,0,3001);
33
34 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
35 VALUES(68736,'ADMRES','CLERK',67858,to_date('1997-05-23','yyyy-mm-dd'),1200,null,2001);
36
37 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
38 VALUES(69000,'JULIUS','CLERK',66928,to_date('1991-12-03','yyyy-mm-dd'),1050,null,3001);
39
40 INSERT INTO globtechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dept_id)
41 VALUES(69824,'MARKER','CLERK',67832,to_date('1992-01-23','yyyy-mm-dd'),1400,null,1001);
42 SELECT*FROM globtechtb231
```

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEPT_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
65640	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	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001

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33°C Cloudy

ENG IN 17:24 30-05-2022

Case 2: From the above table, write a SQL query to find the salaries of all employees. Return salary

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

```
1 SELECT salary/
2 FROM globetechb231;
```

The results pane displays a table with one column, **SALARY**, and ten rows of values:

SALARY
6800
2750
2550
2957
3100
3100
900
1700
1350

The footer of the interface shows the copyright notice: © 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. The system tray at the bottom indicates a temperature of 33°C, Cloudy weather, and the time 18:16 on 30-05-2022.

Case 3: From the above table, write a SQL query to find the unique designations of the employees. Return job name.

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

```
1 SELECT DISTINCT job_name FROM globetechb231;
```

The results pane displays a table with one column, **JOB_NAME**, and five rows of values:

JOB_NAME
ANALYST
CLERK
SALESMAN
MANAGER
PRESIDENT

Below the table, it says "Download CSV" and "5 rows selected". The footer of the interface shows the copyright notice: © 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. The system tray at the bottom indicates a temperature of 33°C, Cloudy weather, and the time 17:37 on 30-05-2022.

Case 4: From the following table, write a SQL query to list the employees' name, increased their salary by 15%, and expressed as number of Dollars.

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

```
1 SELECT emp_name, to_char(1.15*salary, '$99,999')
2 FROM globetechb231;
```

The results are displayed in a table with the following data:

EMP_NAME	TO_CHAR(1.15*SALARY, '\$99,999')
KAYLING	\$6,900
BLAZE	\$3,163
CLARE	\$2,933
JONAS	\$3,401
SCARLET	\$3,565
FRANK	\$3,565
SANDRINE	\$1,835
ADELYN	\$1,955

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

```
1 SELECT emp_name, to_char(1.15*salary, '$99,999')
2 FROM globetechb231;
```

The results are displayed in a table with the following data:

SANDRINE	\$1,835
ADELYN	\$1,955
MADE	\$2,553
MADEN	\$1,553
TUCKER	\$1,840
ADHRES	\$1,380
JULIUS	\$1,200
MARKER	\$1,610

Download CSV
14 rows selected.

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Case 5: From the above table, write a SQL query to list the employee's name and job name as a format of "Employee & Job".

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

```
1 SELECT emp_name || ' ' || job_name AS "Employee & Job"
2 FROM globetechb231;
```

The result is displayed in a table with the following data:

Employee & Job
KAYLING PRESIDENT
BLAZE MANAGER
CLARE MANAGER
JONAS MANAGER
SCARLET ANALYST
FRANK ANALYST
SANDRINE CLERK
ADELYN SALESMAN
WADE SALESMAN

The interface also shows a footer with copyright information and a system tray at the bottom.

Case 6: From the same table - Write a query in SQL to produce the output of employees as follows

Employee

JONAS(manager).

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

```
1 SELECT emp_name || '(' || lower(job_name) || ')' AS "Employee"
2 FROM globetechb231;
```

The result is displayed in a table with the following data:

Employee
KAYLING(president)
BLAZE(manager)
CLARE(manager)
JONAS(manager)
SCARLET(analyst)
FRANK(analyst)
SANDRINE(clerk)
ADELYN(salesman)
WADE(salesman)

The interface also shows a footer with copyright information and a system tray at the bottom.

Case 7: From the above table, write a SQL query to find those employees with hire date in the format like February 22, 1991. Return employee ID, employee name, salary, hire date

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

```
1 SELECT emp_id,
2        emp_name,
3        salary,
4        to_char(hire_date, 'MONTH DD, YYYY')
5 FROM globetechb231;
```

The results table displays the following data:

EMP_ID	EMP_NAME	SALARY	TO_CHAR(HIRE_DATE, 'MONTH DD, YYYY')
68319	KAYLING	6000	NOVEMBER 18, 1991
66928	BLAZE	2750	MAY 01, 1991
67823	CLARE	2550	SEPTEMBER 06, 1991
65646	JONAS	2957	APRIL 02, 1991
67858	SCARLET	3100	APRIL 19, 1997
69062	FRANK	3100	DECEMBER 03, 1991
63679	SANDRINE	900	DECEMBER 18, 1991
64989	ADELYN	1700	FEBRUARY 20, 1991
65271	HADE	1350	FEBRUARY 22, 1991

Case 8: From the above table, write a SQL query to count the number of characters except the spaces for each employee name. Return employee name length.

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

```
1 SELECT length(trim(emp_name))
2 FROM globetechb231;
```

The results table displays the following data:

LENGTH(TRIM(EMP_NAME))
7
5
5
5
7
5
8
6
4

