Oracle Live Assignment
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Batch - DXC-262-Analytics-B12-Azure

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 : Create Table
Query:

```
create table globetechtb231 (emp_id integer not null ,
emp_name varchar(10) not null ,
job_name varchar(15) not null ,
manager_id integer ,
hire_date date not null ,
salary float not null,
commission float ,
dep_id integer not null);
insert into globetechtb231 (emp_id,emp_name,job_name,hire_date,salary,dep_id) values
(68319,'KAYLING','PRESIDENT',to_date('1991-11-18','YYYY-MM-DD'),6000.0,1001);
insert into globetechtb231 values (66928 ,
'BLAZE','MANAGER',68319,to_date('1991-05-01','YYYY-MM-DD'),2750.00,null,3001);
insert into globetechtb231 values
(67832,'CLARE','MANAGER',68319,to_date('1991-06-09','YYYY-MM-DD'),2550.00,null,1001
);
insert into globetechtb231 values
(65646,'JONAS','MANAGER',68319,to_date('1991-04-02','YYYY-MM-DD'),2957.00,null,2001
);
insert into globetechtb231 values
(67858,'SCARLET','ANALYST',65646,to_date('1997-04-19','YYYY-MM-DD'),3100.00,null,200
1);
insert into globetechtb231 values
(69062,'FRANK','ANALYST',65646,to_date('1991-12-03','YYYY-MM-DD'),3100.00,null,2001);
insert into globetechtb231 values
(63679,'SANDRINE','CLERK',69062,to_date('1990-12-18','YYYY-MM-DD'),900.00,null,2001)
;
insert into globetechtb231 values
(64989,'ADELYN','SALESMAN',66928,to_date('1991-02-20','YYYY-MM-DD'),1700.00,400.00
,3001);
```

```
insert into globetechtb231 values
(65271,'WADE','SALESMAN',66928,to_date('1991-02-22','YYYY-MM-DD'),1350.00,600.00,3
001);
insert into globetechtb231 values
(66564,'MADDEN','SALESMAN',66928,to_date('1991-09-28','YYYY-MM-DD'),1350.00,1500.
00,3001);
insert into globetechtb231 values
(68454,'TUCKER','SALESMAN',66928,to_date('1991-09-08','YYYY-MM-DD'),1600.00,0.00,3
001);
insert into globetechtb231 values
(68736,'ADNRES','CLERK',67858,to_date('1997-05-23','YYYY-MM-DD'),1200.00,null,2001);
insert into globetechtb231 values
(69000,'JULIUS','CLERK',66928,to_date('1991-12-03','YYYY-MM-DD'),1050.00,null,3001);
insert into globetechtb231 values
(69324,'MARKER','CLERK',67832,TO_DATE('1992-01-23','YYYY-MM-DD'),1400.00,null,100
1);
```

Output:

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
67832	CLARE	MANAGER	68319	09-JUN-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-90	900	-	2001
64989	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001
66564	MADDEN	SALESMAN	66928	28-SEP-91	1350	1500	3001
68454	TUCKER	SALESMAN	66928	08-SEP-91	1600	0	3001
68736	ADNRES	CLERK	67858	23-MAY-97	1200	-	2001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001

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

Query:

- select emp_ID, salary,commission from globetechtb231;

Output:

EMP_ID	SALARY	COMMISSION
68319	6000	-
66928	2750	-
67832	2550	-
65646	2957	-
67858	3100	-
69062	3100	-
63679	900	-
64989	1700	400
65271	1350	600
66564	1350	1500
68454	1600	0
68736	1200	-
69000	1050	-
69324	1400	-

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

Query:

- select distinct job_name, dep_id from globetechtb231;

Output:

JOB_NAME	DEP_ID
CLERK	3001
MANAGER	2001
MANAGER	1001
CLERK	2001
SALESMAN	3001
MANAGER	3001
PRESIDENT	1001
CLERK	1001
ANALYST	2001

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.

Query:

- select * from globetechtb231 where dep_id!=2001;

Output:

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
67832	CLARE	MANAGER	68319	09-JUN-91	2550	-	1001
64989	ADELYN	SALESMAN	66928	20-FEB-91	1700	400	3001
65271	WADE	SALESMAN	66928	22-FEB-91	1350	600	3001
66564	MADDEN	SALESMAN	66928	28-SEP-91	1350	1500	3001
68454	TUCKER	SALESMAN	66928	08-SEP-91	1600	0	3001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001

case 12. From the following table, write a SQL query to find those employees who joined before 1991.
Return complete information about the employees

Query:

- select * from globetechtb231 where hire_date<to_date('1991-01-01','YYYY-MM-DD');

Output:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
63679	SANDRINE	CLERK	69062	18-DEC-90	900	-	2001

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.

Query:

- select avg(salary) from globetechtb231 where job_name='ANALYST';

Output:

AVG(SALARY)
3100

case 14. From the following table, write a SQL query to find the details of the employee ‘BLAZE’

Query:

- select * from globetechtb231 where emp_name='BLAZE';

Output:

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

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

Query:

- select * from globetechtb231 where commission>salary;

Output:

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

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

Query:

- select * from globetechtb231 where (salary*1.25)>3000;

Output:

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
67832	CLARE	MANAGER	68319	09-JUN-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

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

Query:

- select emp_name from globetechtb231 where length(emp_name)>6;

Output:

EMP_NAME
KAYLING
SCARLET
SANDRINE

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

Query:

- select * from globetechtb231 where to_char(hire_date,'mon')='jan';

Output:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001

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'.

Query:

- SELECT e.emp_name || ' works for ' || m.emp_name
  FROM globetechtb231 e,
  globetechtb231 m

WHERE e.manager_id = m.emp_id;

Output:

E.EMP_NAME||'WORKSFOR'||M.EMP_NAME
BLAZE works for KAYLING
CLARE works for KAYLING
JONAS works for KAYLING
ADELYN works for BLAZE
WADE works for BLAZE
MADDEN works for BLAZE
TUCKER works for BLAZE
JULIUS works for BLAZE
MARKER works for CLARE
SCARLET works for JONAS
FRANK works for JONAS
ADNRES works for SCARLET
SANDRINE works for FRANK

case 20. From the following table, write a SQL query to find those employees whose designation is ‘CLERK’.
Return complete information about the employees.

QUery:

- select * from globetechtb231 where job_name='CLERK'

Output:

EMP_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEP_ID
63679	SANDRINE	CLERK	69062	18-DEC-90	900	-	2001
68736	ADNRES	CLERK	67858	23-MAY-97	1200	-	2001
69000	JULIUS	CLERK	66928	03-DEC-91	1050	-	3001
69324	MARKER	CLERK	67832	23-JAN-92	1400	-	1001