

ASSIGNMENT 4

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BATCH: DXC-262-Analytics-B12-Azure

DATE: 02/06/2022

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: Part 3:

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

The screenshot shows the Oracle Live SQL interface. The top bar indicates the user is logged in as 'aisheeb122000@gmail.com'. The main area displays a SQL worksheet with the following code:

```
24 VALUES(64989,'ADELYN','SALESMAN',66928,to_date('1991-02-20','yyyy-mm-dd'),1700.00,400.00,3001);
25
26 INSERT INTO globetechtb231(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 globetechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
30 VALUES(66564,'HADEH','SALESMAN',66928,to_date('1991-09-28','yyyy-mm-dd'),1350.00,1500.00,3001);
31
32 INSERT INTO globetechtb231(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 globetechtb231(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 globetechtb231(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 globetechtb231(emp_id,emp_name, job_name, manager_id,hire_date,salary,commission,dep_id)
42 VALUES(69824,'MARKER','CLERK',67858,to_date('1992-01-23','yyyy-mm-dd'),1400.00,null,1001);
43
44
```

Below the code, a table view is displayed with 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 |
| 69862 | FRANK | ANALYST | 65646 | 03-DEC-91 | 3100 | - | 2001 |
| 63679 | SANDRENE | CLERK | 69862 | 18-DEC-91 | 900 | - | 2001 |
| 64989 | ADELYN | SALESMAN | 66928 | 20-FEB-91 | 1700 | 400 | 3001 |
| 65271 | WADE | SALESMAN | 66928 | 22-FEB-91 | 1350 | 600 | 3001 |

The bottom of the screen shows the Oracle Live SQL footer with version information and a taskbar with system icons.

Case 33: From the following table, write a SQL query to find those employees of department id 3001 or 1001 and joined in the year 1991. 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 to_char(hire_date,'yyyy')=1991
4 AND dep_id=3001 OR dep_id=1001;
```

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 | HAZEN | 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 |

Case 34: From the following table, write a SQL query to find those employees who are working for the department ID 1001 or 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=1001 OR dep_id=2001;
```

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 |
| 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 |
| 61679 | SANDRINE | CLERK | 69062 | 18-DEC-91 | 900 | - | 2001 |
| 68736 | ADRES | CLERK | 67858 | 23-MAY-97 | 1200 | - | 2001 |
| 69824 | HARKER | CLERK | 67832 | 23-JAN-92 | 1400 | - | 1001 |

Case 35: From the following table, write a SQL query to find those employees whose designation is 'CLERK' and work in the department ID 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 job_name='CLERK' AND dep_id=2001;
4
```

The results table shows 2 rows selected:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 63679 | SANDRINE | CLERK | 69062 | 18-DEC-91 | 900 | - | 2001 |
| 68736 | ADRIES | CLERK | 67858 | 23-MAY-97 | 1200 | - | 2001 |

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2 rows selected.

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Case 36: From the following table, write a SQL query to find those employees who are either CLERK or MANAGER. 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 job_name='CLERK' OR job_name='MANAGER';
4
```

The results table shows 7 rows selected:

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

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Case 37: From the following table, write a SQL query to find those employees who joined in any year except the month of February. Return complete information about the employees

Oracle Live SQL - SQL Worksheet

https://livesql.oracle.com/apex/f?p=590:12091530882355:NO:RP:-

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```

1 SELECT *
2 FROM globetechb231
3 WHERE to_char(hire_date,'MON') NOT IN ('FEB');
4

```

| 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 |
| 66564 | MADEN | SALESMAN | 66928 | 28-SEP-91 | 1350 | 1500 | 3001 |
| 66584 | TUCKER | SALESMAN | 66928 | 08-SEP-91 | 1600 | 0 | 3001 |

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Case 38: From the following table, write a SQL query to find those employees who joined in the year 91. Return complete information about the employees

Oracle Live SQL - SQL Worksheet

https://livesql.oracle.com/apex/f?p=590:12091530882355:NO:RP:-

Live SQL

Feedback Help aisheeb122000@gmail.com

SQL Worksheet

Clear Find Actions Save Run

```

1 SELECT *
2 FROM globetechb231
3 WHERE to_char(hire_date,'yyyy')=1991;
4

```

| 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 |
| 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 |
| 65271 | WADE | SALESMAN | 66928 | 22-FEB-91 | 1350 | 600 | 3001 |
| 66564 | MADEN | SALESMAN | 66928 | 28-SEP-91 | 1350 | 1500 | 3001 |

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Case 40 : From the following table, write a SQL query to find all the employees whose annual salary is within the range 24000 and 50000 (Begin and end values are included.). 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 12*salary BETWEEN 24000 AND 50000;
4
```

The results table displays the following data:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 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 |

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Case 41: From the following table, write a SQL query to find all those employees who have joined on 1st May, 20th Feb, and 3rd Dec in the year 1991. 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 hire_date=to_date('01-05-1991', 'dd-mm-yyyy')
4 OR hire_date = to_date('20-02-1991', 'dd-mm-yyyy')
5 OR hire_date = to_date('03-12-1991', 'dd-mm-yyyy');
6
7
```

The results table displays the following data:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 66928 | BLAZE | MANAGER | 68319 | 01-MAY-91 | 2750 | - | 3001 |
| 69062 | FRANK | ANALYST | 65646 | 03-DEC-91 | 3100 | - | 2001 |
| 64989 | ADELIN | SALESMAN | 66928 | 20-FEB-91 | 1700 | 400 | 3001 |
| 69000 | JULIUS | CLERK | 66928 | 03-DEC-91 | 1050 | - | 3001 |

Download CSV
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Case 42: From the following table, write a SQL query to find those employees working under the managers 63679 or 68319 or 66564 or 69000. 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 manager_id IN (63679,68319,66564,69000);
4
```

The results table displays the following data:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 66928 | BLAZE | MANAGER | 68319 | 01-MAY-91 | 2750 | - | 3001 |
| 67823 | CLARE | MANAGER | 68319 | 06-SEP-91 | 2550 | - | 1001 |
| 65646 | JOHNS | MANAGER | 68319 | 02-APR-91 | 2957 | - | 2001 |

Download CSV
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Case 43: From the following table, write a SQL query to find those employees who joined after the month JUNE in the year 1991 and within this year. 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 hire_date > TO_DATE('30-06-1991', 'dd-mm-yyyy') AND hire_date <= TO_DATE('01-01-1992', 'dd-mm-yyyy');
4
```

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 |
| 67823 | CLARE | MANAGER | 68319 | 06-SEP-91 | 2550 | - | 1001 |
| 69062 | FRANK | ANALYST | 65646 | 03-DEC-91 | 3100 | - | 2001 |
| 63679 | SANDRINE | CLERK | 69062 | 18-DEC-91 | 900 | - | 2001 |
| 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 |

Download CSV
7 rows selected.

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Case 44: From the following table, write a SQL query to find those employees who joined in 90's.

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 to_char(hire_date,'yy') BETWEEN '90' AND '99';
4
```

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 |
| 61679 | SANDRINE | CLERK | 69062 | 18-DEC-91 | 900 | - | 2001 |
| 64989 | ADELYN | SALESMAN | 66928 | 28-FEB-91 | 1700 | 400 | 3001 |

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Case 45: From the following table, write a SQL query to find those managers who are in the department 1001 or 2001. 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 job_name='MANAGER'
4 AND (dep_id=1001 OR dep_id=2001);
5
```

The results table displays the following data:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 67823 | CLARE | MANAGER | 68319 | 06-SEP-91 | 2550 | - | 1001 |
| 65646 | JONAS | MANAGER | 68319 | 02-APR-91 | 2957 | - | 2001 |

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Case 46: From the following table, write a SQL query to find those employees who joined in the month FEBRUARY with a salary range between 1001 to 2000 (Begin and end values are included.). 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 to_char(hire_date, 'MON') IN ('FEB')
4 AND(salary BETWEEN 1001 AND 2000);
5
6
```

The results table shows 2 rows selected:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 64989 | ADELYN | SALESMAN | 66928 | 28-FEB-91 | 1700 | 400 | 3001 |
| 65271 | WADE | SALESMAN | 66928 | 22-FEB-91 | 1350 | 600 | 3001 |

Download CSV
2 rows selected.

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Case 47: From the following table, write a SQL query to find those employees who joined before or after the year 1991. 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 to_char(hire_date, 'yy') NOT IN '91';
4
5
```

The results table shows 3 rows selected:

| EMP_ID | EMP_NAME | JOB_NAME | MANAGER_ID | HIRE_DATE | SALARY | COMMISSION | DEP_ID |
|--------|----------|----------|------------|-----------|--------|------------|--------|
| 67858 | SCARLET | ANALYST | 65646 | 19-APR-97 | 3100 | - | 2001 |
| 68736 | ADRIES | CLERK | 67858 | 23-MAY-97 | 1200 | - | 2001 |
| 69824 | MARKER | CLERK | 67832 | 23-JAN-92 | 1400 | - | 1001 |

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Case 50: From the following table, write a SQL query to find those employees whose salary is higher than the salary of their managers. Return employee name, job name, manager ID, salary, manager name, manager's salary.

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

```
1 SELECT w.emp_name,
2        w.job_name,
3        w.salary,
4        m.emp_name "MANAGER",
5        m.emp_id,
6        m.salary "Manager_salary"
7 FROM globetechb231 w,
8      globetechb231 m
9 WHERE w.manager_id=m.emp_id AND w.salary > m.salary;
```

The results table shows 2 rows selected:

| EMP_NAME | JOB_NAME | SALARY | MANAGER | EMP_ID | Manager_salary |
|----------|----------|--------|---------|--------|----------------|
| SCARLET | ANALYST | 3100 | JONAS | 65646 | 2957 |
| FRANK | ANALYST | 3100 | JONAS | 65646 | 2957 |

Below the table, it says "Download CSV" and "2 rows selected."

At the bottom of the interface, there is a footer: "© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Alok Tom - Dev Gym. Built with ❤️ using Oracle APEX - Privacy - Terms of Use".

The Windows taskbar at the bottom shows the date as 02-06-2022 and time as 18:09.