

DXC-AZURE ANALYTICS

ASSIGNMENT -2

CASE STUDY

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Aim: our aim is to migrate their data to the cloud. And using azure cloud services we have to develop solutions for global-tech.

As per the requirement we have to create a table and insert the data into it as shown in the attachment fig1.1

The screenshot displays a 'Live SQL' interface with a 'SQL Worksheet' tab. The code area contains SQL statements to create a table named 'globetechtb231' and insert data into it. The table has columns: emp_id, emp_name, job_name, manager_id, hire_date, salary, commission, and dep_id. The data is inserted for five employees: Kayling (President), Blaze (Manager), Clare (Manager), Jonas (Manager), and Scarlet (Analyst). Below the code, a table view shows the data inserted, including additional rows for Frank (Analyst), Sandrine (Clerk), and Adelyn (Salesman).

```
1 CREATE TABLE globetechtb231(emp_id INT NOT NULL, emp_name varchar(255) NOT NULL,
2 job_name varchar(255) NOT NULL, manager_id int, hire_date date NOT NULL, salary INT NOT NULL,
3 commission INT, dep_id int NOT NULL, constraint pk_globaltechtb231 primary key(emp_id));
4 INSERT INTO
5 globetechtb231(emp_id,emp_name,job_name,manager_id,hire_date,salary,commission,dep_id)
6 values(68319, 'KAYLING', 'PRESIDENT',NULL ,to_date('1991-11-18','yyyy-mm-dd'),6000.00,NULL,
7 1001);
8 INSERT INTO
9 globetechtb231(emp_id,emp_name,job_name,manager_id,hire_date,salary,commission,dep_id)
10 values(66928, 'BLAZE', 'MANAGER',68319 ,to_date('1991-05-01','yyyy-mm-dd'),2750.00,NULL, 3001);
11 INSERT INTO
12 globetechtb231(emp_id,emp_name,job_name,manager_id,hire_date,salary,commission,dep_id)
13 values(67832, 'CLARE', 'MANAGER',68319 ,to_date('1991-06-09','yyyy-mm-dd'),2550.00,NULL,
14 1001);
15 INSERT INTO
16 globetechtb231(emp_id,emp_name,job_name,manager_id,hire_date,salary,commission,dep_id)
17 values(65646, 'JONAS', 'MANAGER', 68319 ,to_date('1991-04-02','yyyy-mm-dd'),2957.00,NULL,
18 2001);
19 INSERT INTO
20 globetechtb231(emp_id,emp_name,job_name,manager_id,hire_date,salary,commission,dep_id)
21 values(67858, 'SCARLET', 'ANALYST', 65646 ,to_date('1997-04-19','yyyy-mm-dd'),3100.00,NULL,
```



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





Fig1.1 shows the creation of table and data insertion.





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

In the case we are required to pull the data from the table having the employee ID, salary, and commission. For the activity we have to use the following query

Query for case 9 : select emp_id,salary,commission from globetechtb231;

  **Live SQL**

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SQL Worksheet  Clear  Find **Actions**  Save **Run** 

1 `select emp_id,salary,commission from globetechtb231;`


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	-

[Download CSV](#)
14 rows selected.

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

query for case 10:

```
SELECT DISTINCT(job_name) as jobs ,dep_id as Department from globetechtb231;
```

 **Live SQL**

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SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 SELECT DISTINCT(job_name) as jobs ,dep_id as Department from globetechtb231;
```

JOB	DEPARTMENT
CLERK	3001
MANAGER	2001
MANAGER	1001
CLERK	2001
SALESMAN	3001
MANAGER	3001
PRESIDENT	1001
CLERK	1001
ANALYST	2001






[Download CSV](#)
9 rows selected.



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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;

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SQL Worksheet  Clear  Find



Actions 

 Save  Run

```
1 select * from globetechtb231
2 where dep_id != 2001;
```

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

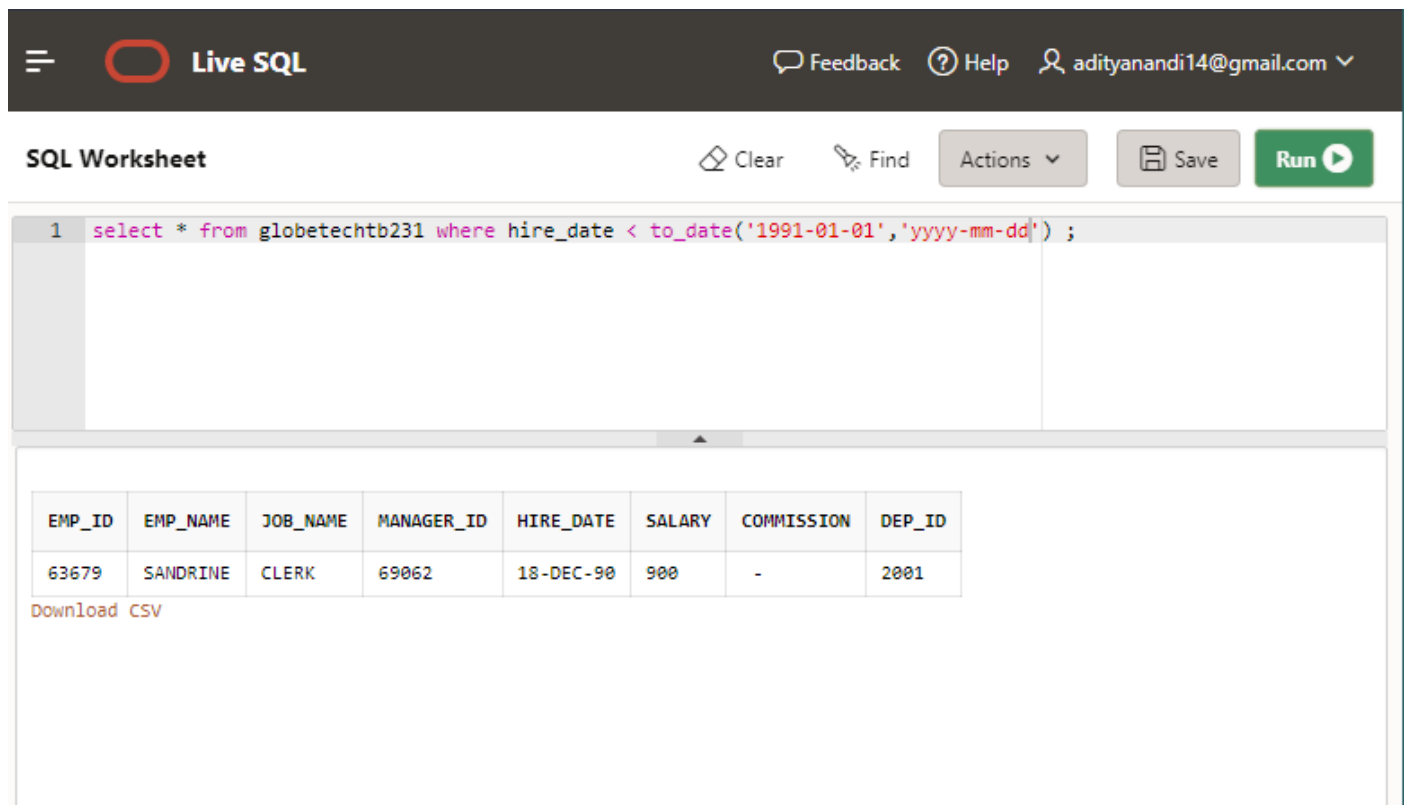
[Download CSV](#)
9 rows selected.

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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') ;
```



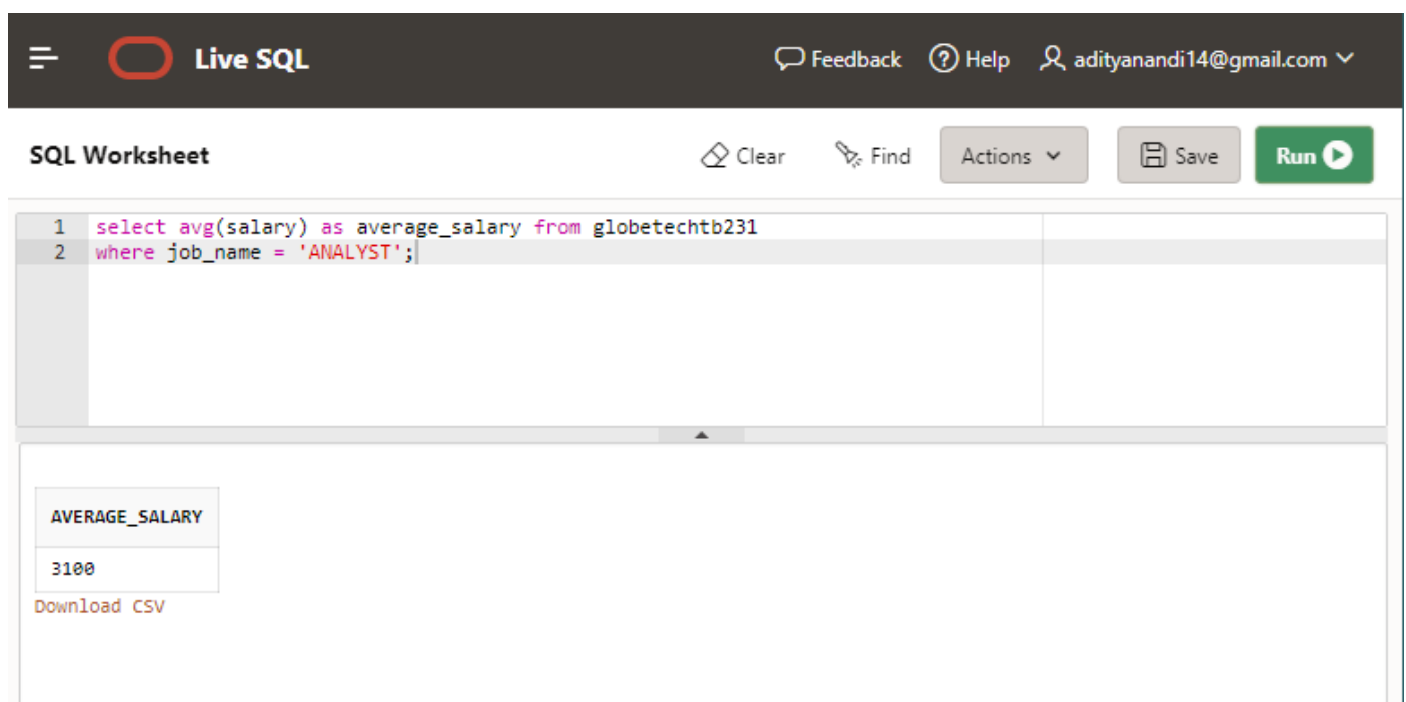
The screenshot shows a web-based SQL editor interface. At the top, there's a header with a hamburger menu, a 'Live SQL' logo, and links for 'Feedback', 'Help', and a user profile 'adityanandi14@gmail.com'. Below the header, the main area is titled 'SQL Worksheet'. It contains a text input field with the SQL query: `select * from globetechtb231 where hire_date < to_date('1991-01-01','yyyy-mm-dd') ;`. To the right of the input field are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button. Below the input field, the results of the query are displayed as a table with 8 columns: EMP_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, COMMISSION, and DEP_ID. The table contains one row of data for employee SANDRINE. Below the table is a 'Download CSV' link.

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

Download CSV

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) as average_salary from globetechtb231 where job_name = 'ANALYST';`





The screenshot shows the same 'Live SQL' interface. The 'SQL Worksheet' section now contains a two-line query: `select avg(salary) as average_salary from globetechtb231 where job_name = 'ANALYST';`. The 'Run' button is still present. Below the query input, the results are shown as a single-row table with one column named 'AVERAGE_SALARY' and a value of '3100'. A 'Download CSV' link is also visible below the results table.





AVERAGE_SALARY
3100






Download CSV

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' ;

  **Live SQL**

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SQL Worksheet  Clear  Find **Actions**   Save  Run

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



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





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

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;

  **Live SQL**

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SQL Worksheet  Clear  Find **Actions**   Save  Run

1 select * from globetechtb231 where commission > salary;



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





[Download CSV](#)



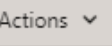


case 16. From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving 25% increment.

Return complete information about the employees

query : `SELECT emp_name, (0.25*salary + salary) as salary from globetechtb231`
`where (0.25*salary + salary) > 3000;`

  **Live SQL**

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SQL Worksheet  Clear  Find  Actions  Save  Run



```
1 SELECT emp_name, (0.25*salary + salary) as salary from globetechtb231
2 where (0.25*salary + salary) > 3000;
```





EMP_NAME	SALARY
KAYLING	7500
BLAZE	3437.5
CLARE	3187.5
JONAS	3696.25
SCARLET	3875
FRANK	3875



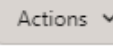


[Download CSV](#)
6 rows selected.

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 :

  **Live SQL**

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SQL Worksheet  Clear  Find  Actions  Save  Run



```
1 SELECT emp_name from globetechtb231
2 where length(emp_name) > 6;
```





EMP_NAME
KAYLING
SCARLET
SANDRINE






[Download CSV](#)
3 rows selected.

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';`

  **Live SQL**

 Feedback  Help  adityanandi14@gmail.com 

SQL Worksheet  Clear  Find **Actions**   Save **Run** 

1



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





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






Download [CSV](#)

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 where e.manager_id = m.emp_id;

 **Live SQL**

 Feedback  Help  adityanandi14@gmail.com 

SQL Worksheet  Clear  Find **Actions**   Save  Run



```
1 select e.emp_name || ' works for ' || m.emp_name
2 from globetechtb231 e,globetechtb231 m
3 where e.manager_id = m.emp_id;
```





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
ANDRES works for SCARLET
SANDRINE works for FRANK






[Download CSV](#)
13 rows selected.

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 emp_name as employees_with_deisgnation_clerk from globetechtb231
where job_name = 'CLERK';

  **Live SQL**

 Feedback  Help  adityanandi14@gmail.com 

SQL Worksheet  Clear  Find **Actions**   Save **Run** 

```
1 select emp_name as employees_with_deisgnation_clerk from globetechtb231
2 where job_name = 'CLERK';
```

EMPLOYEES_WITH_DEISGNATION_CLERK
SANDRINE
ANDRES
JULIUS
MARKER

[Download CSV](#)
4 rows selected.