CASE_STUDY (NUMBER -04)---SOLUTION SUBMISSION
ON
AZURE ANALYTICS
BY

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TRAINING UNDER : MANIPAL PRO LEARN
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DATE OF SUBMISSION : 2-06-2022
NO OF TEST CASES :18
EMPLOYEE DOMAIN - AZURE ANALYTICS

PROBLEM STATEMENT:

Assignment 31st May 2022:

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.
PART - 1:
Table:

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

The Cases:

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 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 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. 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 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 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 case 39:From the following table, write a SQL query to find those employees who joined in the month of June 1991. Return complete information about the employees 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. 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. 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 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 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 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. 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 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. case 48: From the following tables, write a SQL query to find employees along with department name. Return employee ID, employee name, job name, manager ID, hire date, salary, commission, department ID, and department name case 49: From the following tables, write a SQL query to find those employees who earn 60000 in a year or not working as an ANALYST. Return employee name, job name, (12*salary) as Annual Salary, department ID, and grade 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. Please create a word / pdf document, and send it to : avyuktitraining1@gmail.com

INTRODUCTION

This is a case study given by manipal pro learn team on the basis of the training done in the forenoon session of this morning. The main objective behind this case study is to work on industry-based problems and achieve solutions for the solutions.

The problem statement have ten cases and these are of easy to moderately difficult level. All the cases have been focused on what the trainer taught in the earlier sessions. Basic operations in the data using SQL are performed that include :

- CREATE
- INSERT
- UPDATE
- SELECT

Along with some more interesting cases.

This case study gives me immense confidence in mastering the domain that has been assigned to me. The queries have been highlighted with green color and later the snap shot of the output is attached.

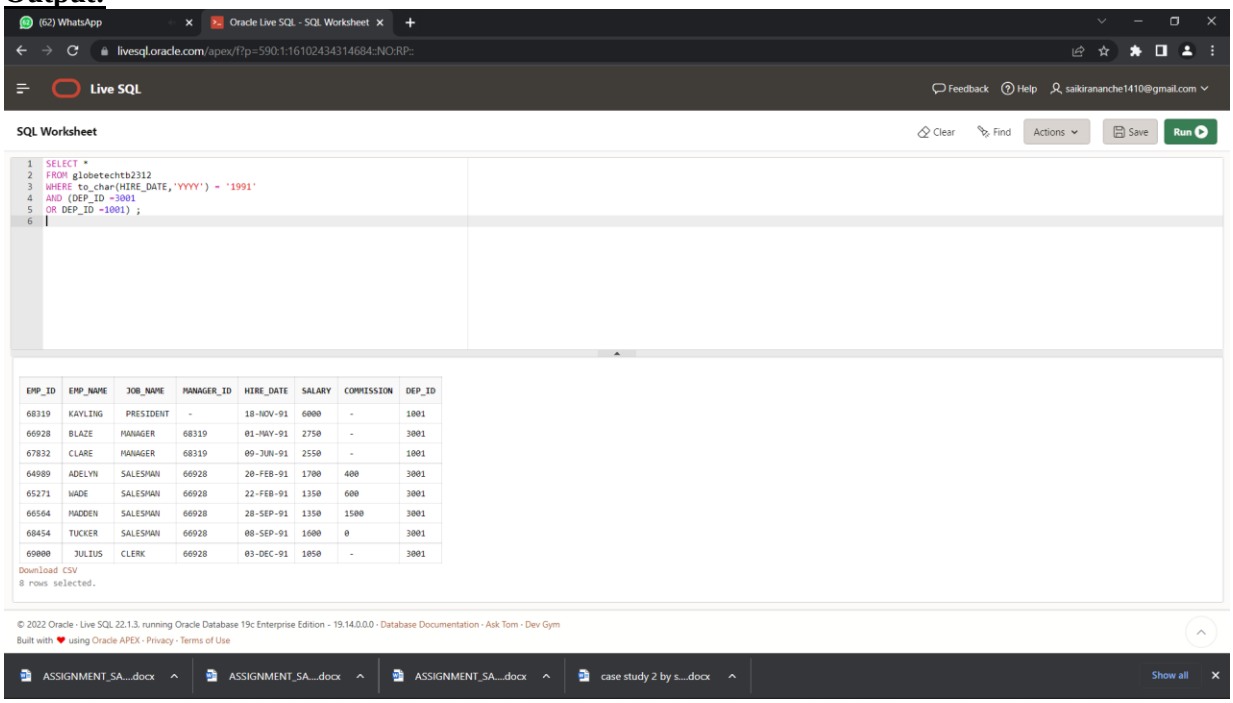
solutions

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

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(HIRE_DATE,'YYYY') = '1991'
AND (DEP_ID =3001
OR DEP_ID =1001) ;
```

Output:

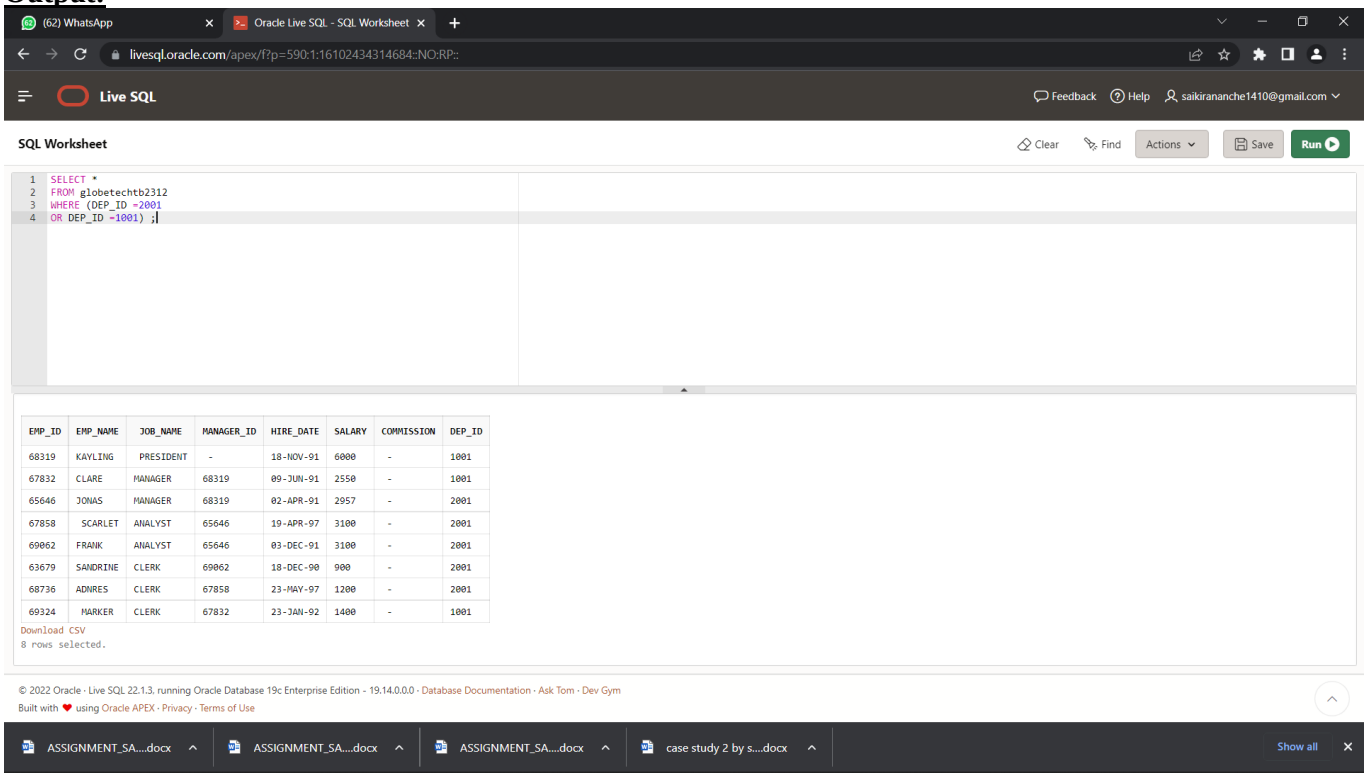


case 34: From the following table, write a SQL query to find those employees who are working for the department ID 1001 or 2001. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE (DEP_ID =2001
OR DEP_ID =1001) ;
```

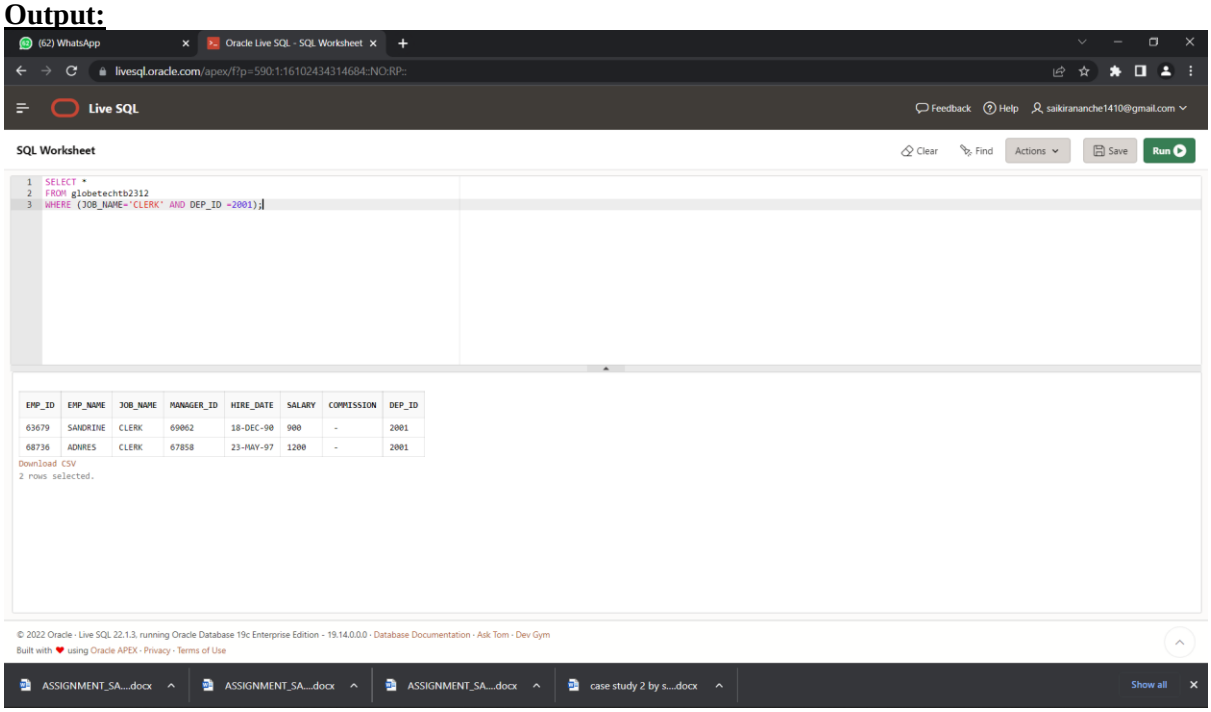
Output:



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.

Query:
```
SELECT *
FROM globetechtb2312
WHERE (JOB_NAME='CLERK' AND DEP_ID =2001);
```

Output:

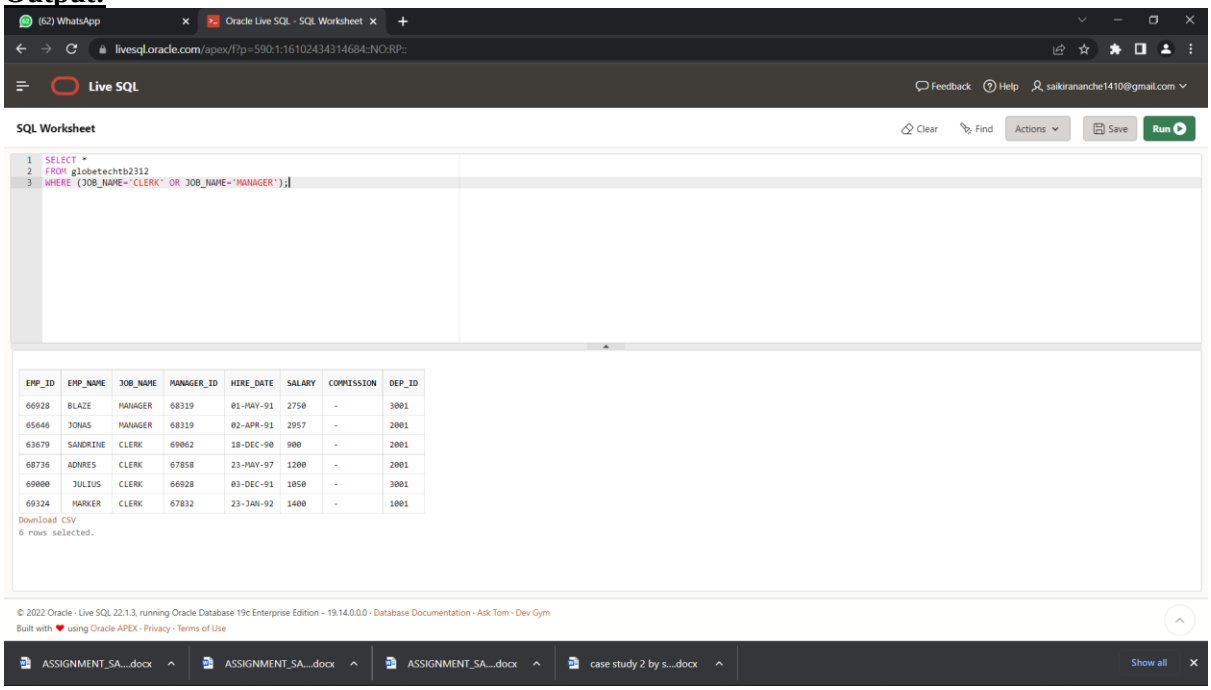


case 36: From the following table, write a SQL query to find those employees who are either CLERK or MANAGER. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE (JOB_NAME='CLERK' OR JOB_NAME='MANAGER');
```

Output:

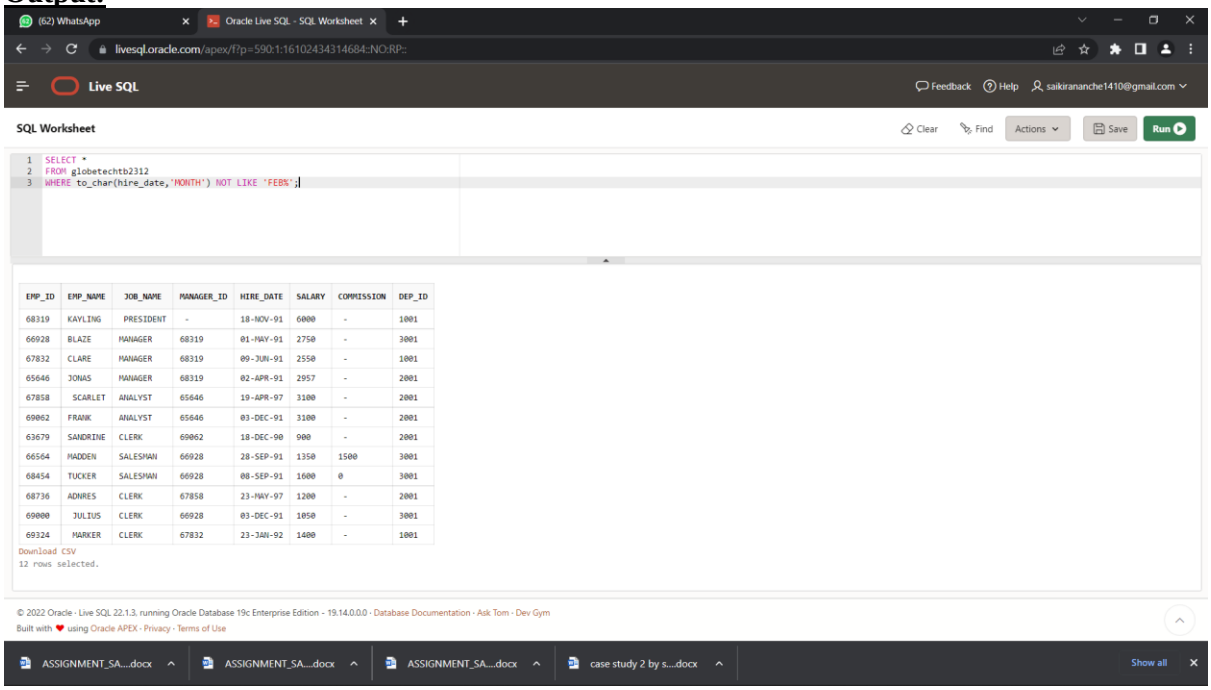


case 37: From the following table, write a SQL query to find those employees who joined in any year except the month of February. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'MONTH') NOT LIKE 'FEB%';
```

Output:

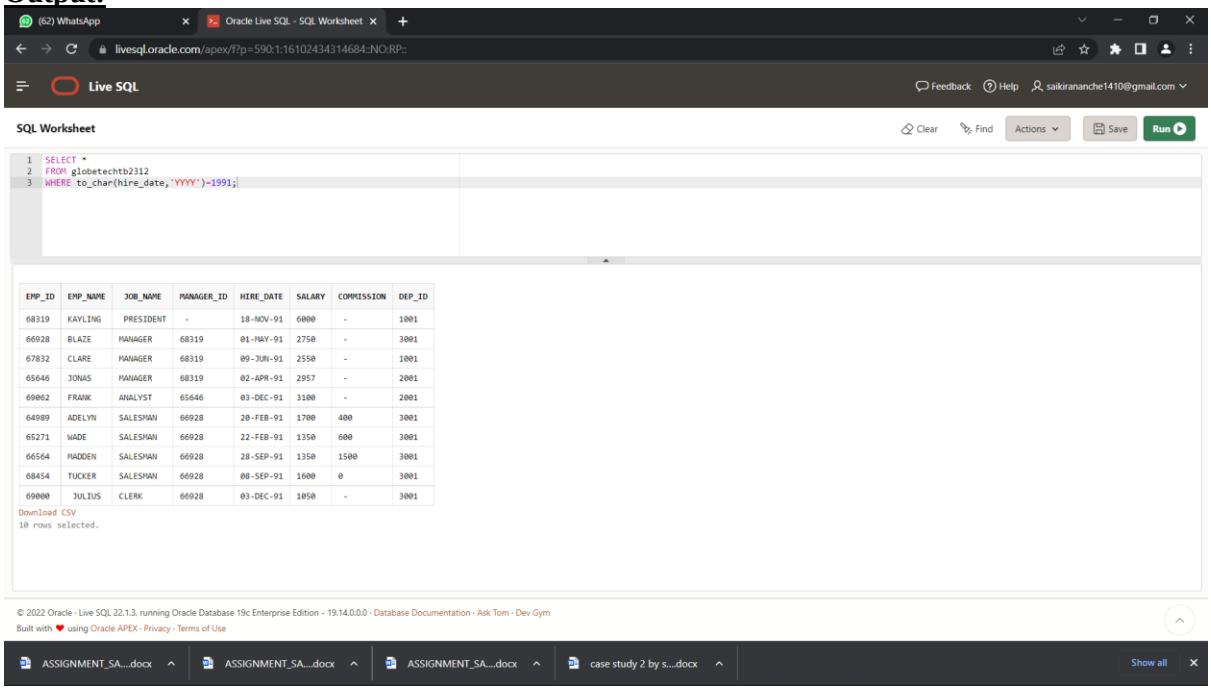


case 38: From the following table, write a SQL query to find those employees who joined in the year 91. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'YYYY')=1991;
```

Output:

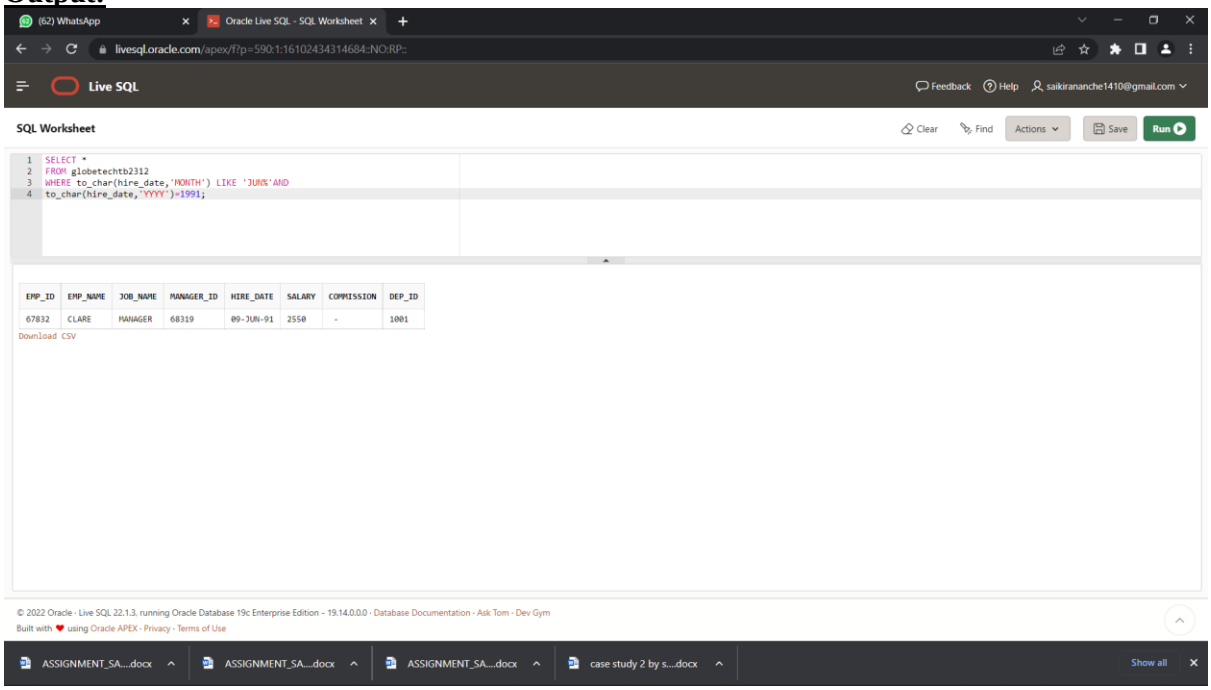


case 39:From the following table, write a SQL query to find those employees who joined in the month of June 1991. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'MONTH') LIKE 'JUN%'AND
to_char(hire_date,'YYYY')=1991;
```

Output:

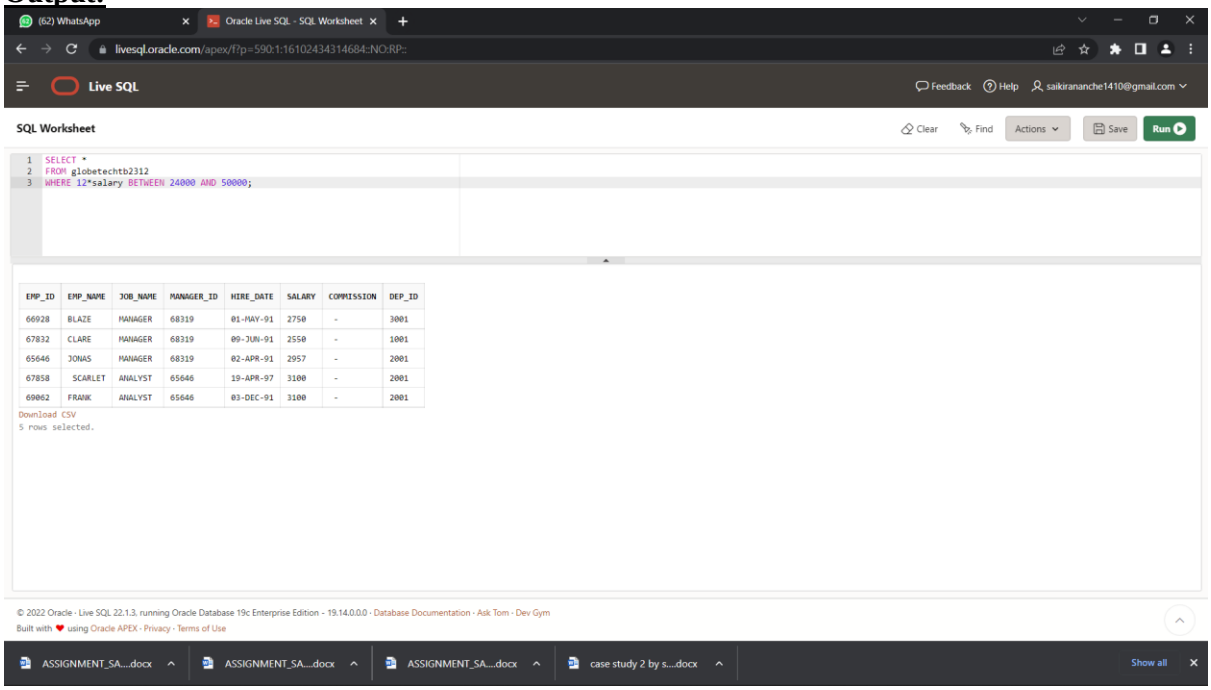


case 40: From the following table, write a SQL query to find all the employees whose annual salary is within the range 24000 and 50000 (Begin and end values are included.). Return complete information about the employees.

Query:

```
SELECT *
FROM globetechtb2312
WHERE 12*salary BETWEEN 24000 AND 50000;
```

Output:

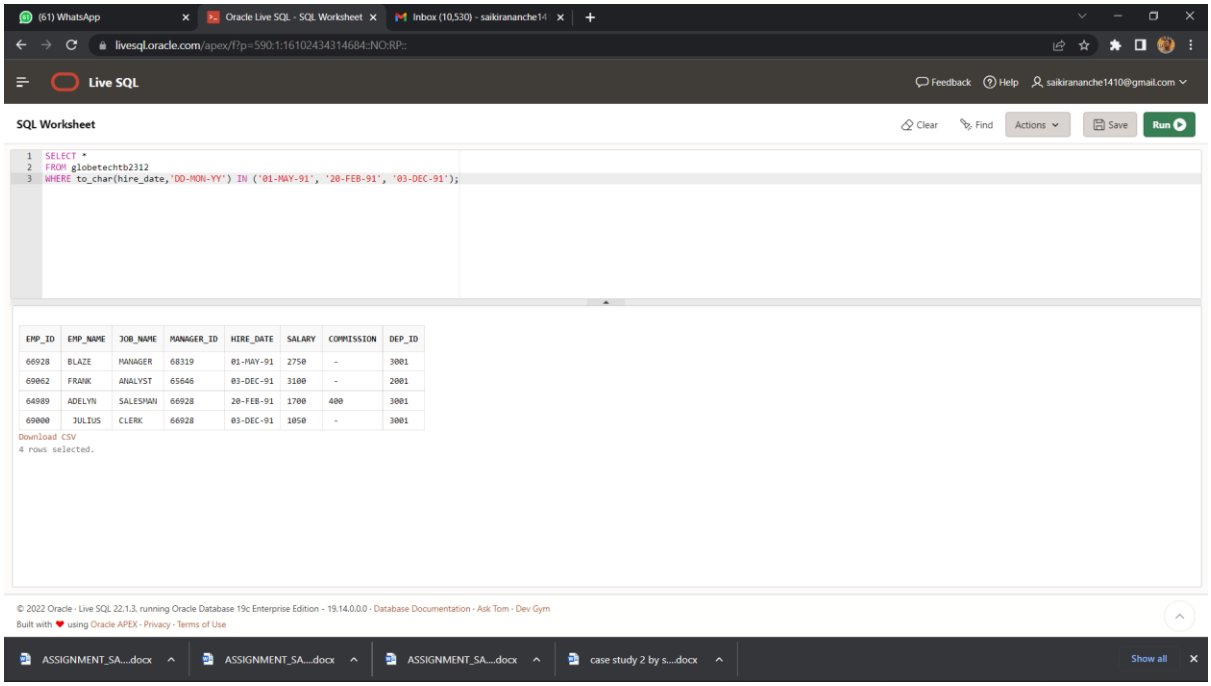


case 41:From the following table, write a SQL query to find all those employees who have joined on 1st May, 20th Feb, and 3rd Dec in the year 1991. Return complete information about the employees.

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'DD-MON-YY') IN ('01-MAY-91', '20-FEB-91', '03-DEC-91');
```

Output:

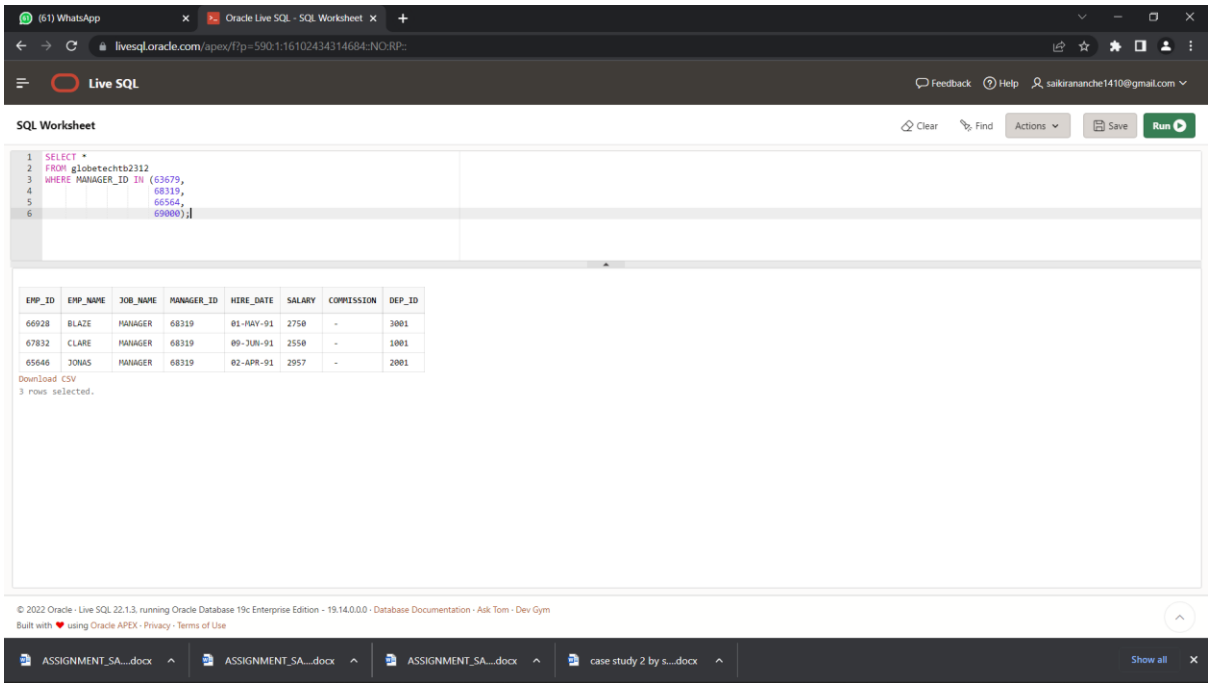


case 42:From the following table, write a SQL query to find those employees working under the managers 63679 or 68319 or 66564 or 69000. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE MANAGER_ID IN (63679,
                     68319,
                     66564,
                     69000);
```

Output:

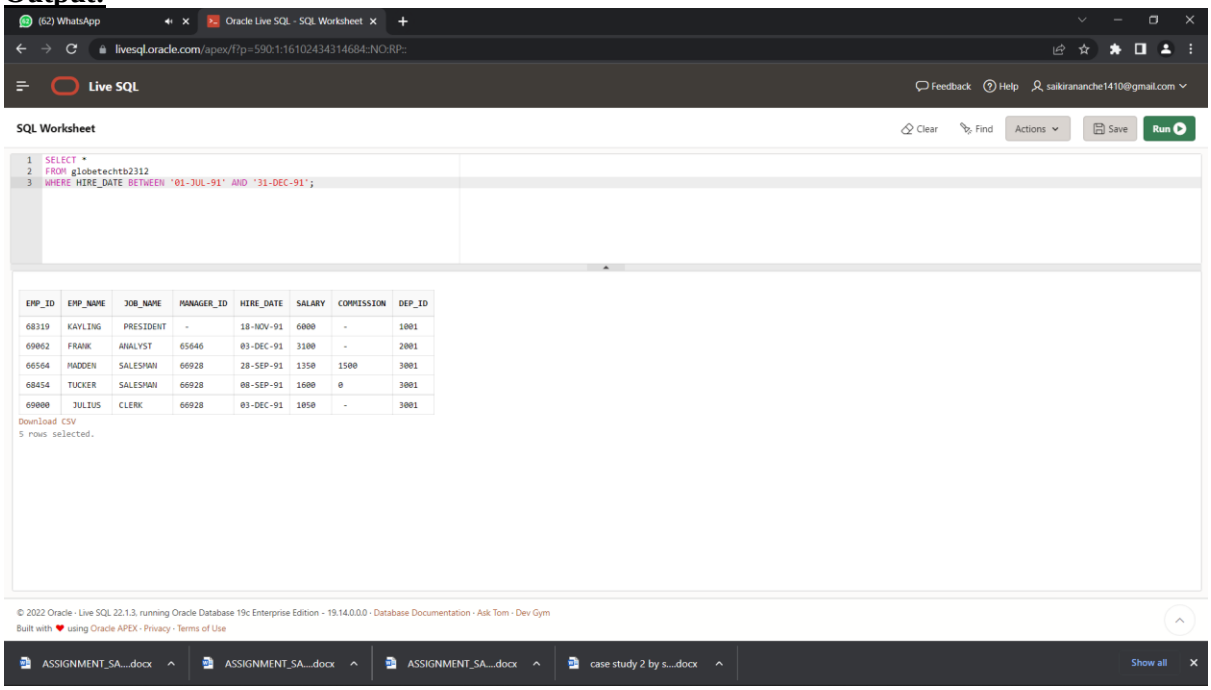


case 43: From the following table, write a SQL query to find those employees who joined after the month JUNE in the year 1991 and within this year. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE HIRE_DATE BETWEEN '01-JUL-91' AND '31-DEC-91';
```

Output:

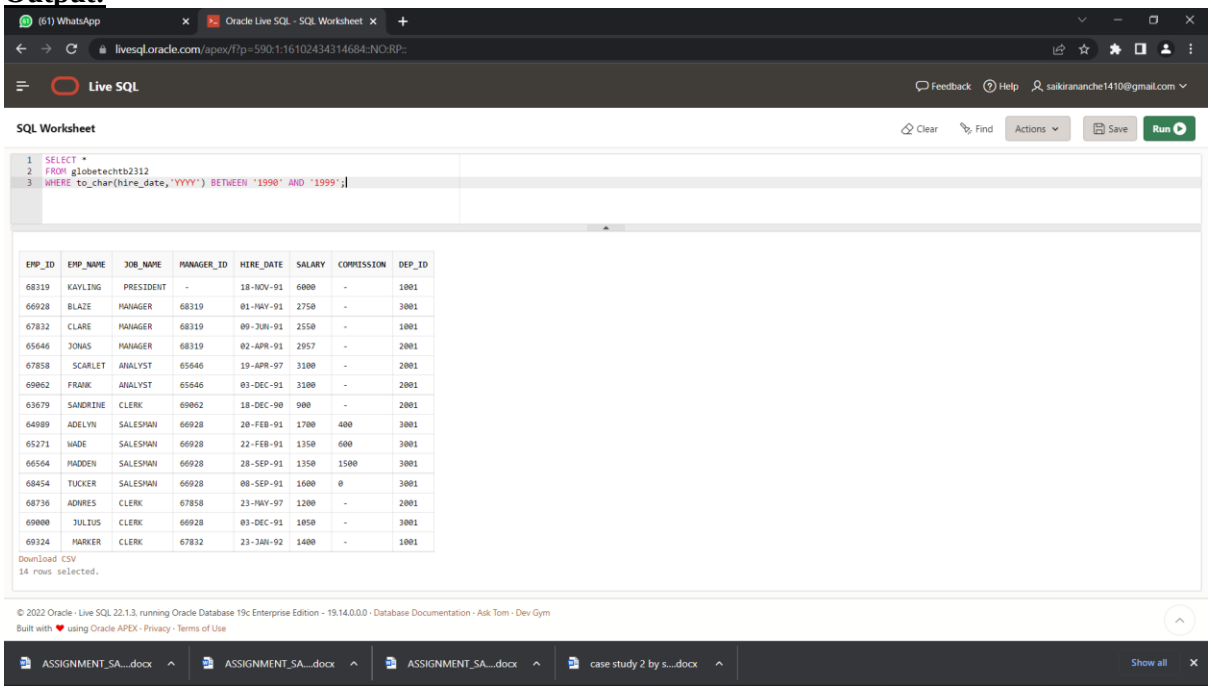


case 44:From the following table, write a SQL query to find those employees who joined in 90's. Return complete information about the employees

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'YYYY') BETWEEN '1990' AND '1999';
```

Output:



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.
Query:

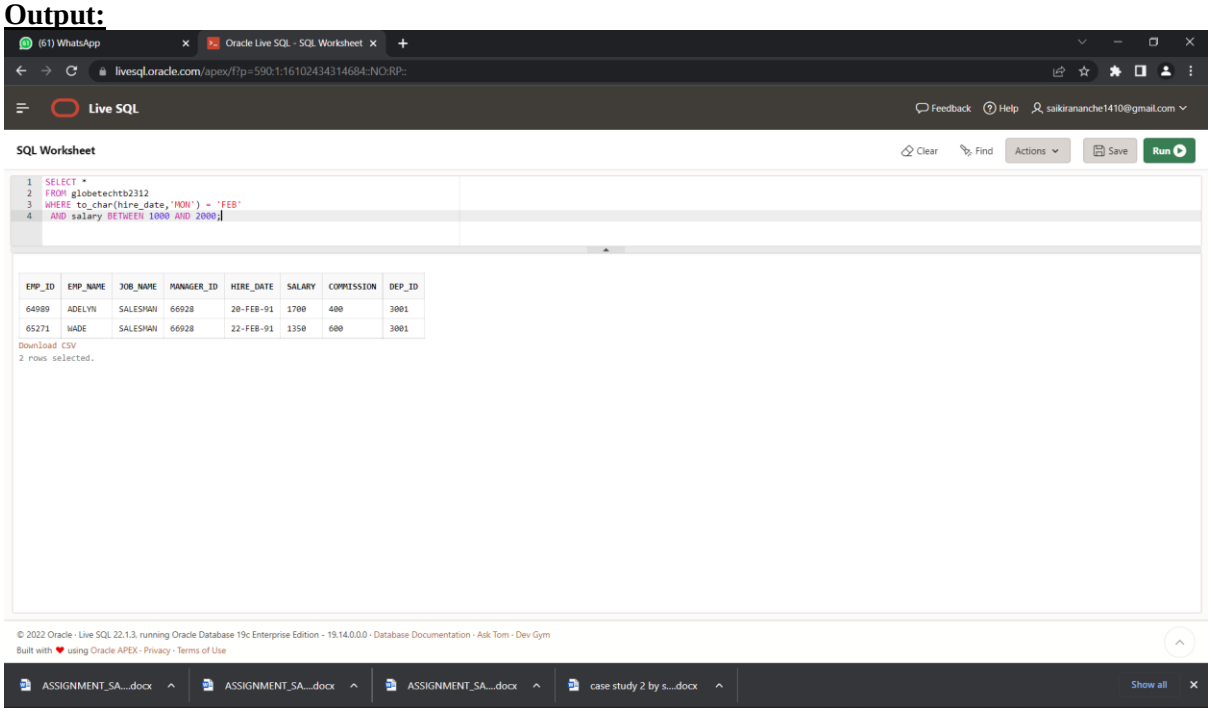
Output:

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

Query:

```
SELECT *
FROM globetechtb2312
WHERE to_char(hire_date,'MON') = 'FEB'
 AND salary BETWEEN 1000 AND 2000;
```

Output:

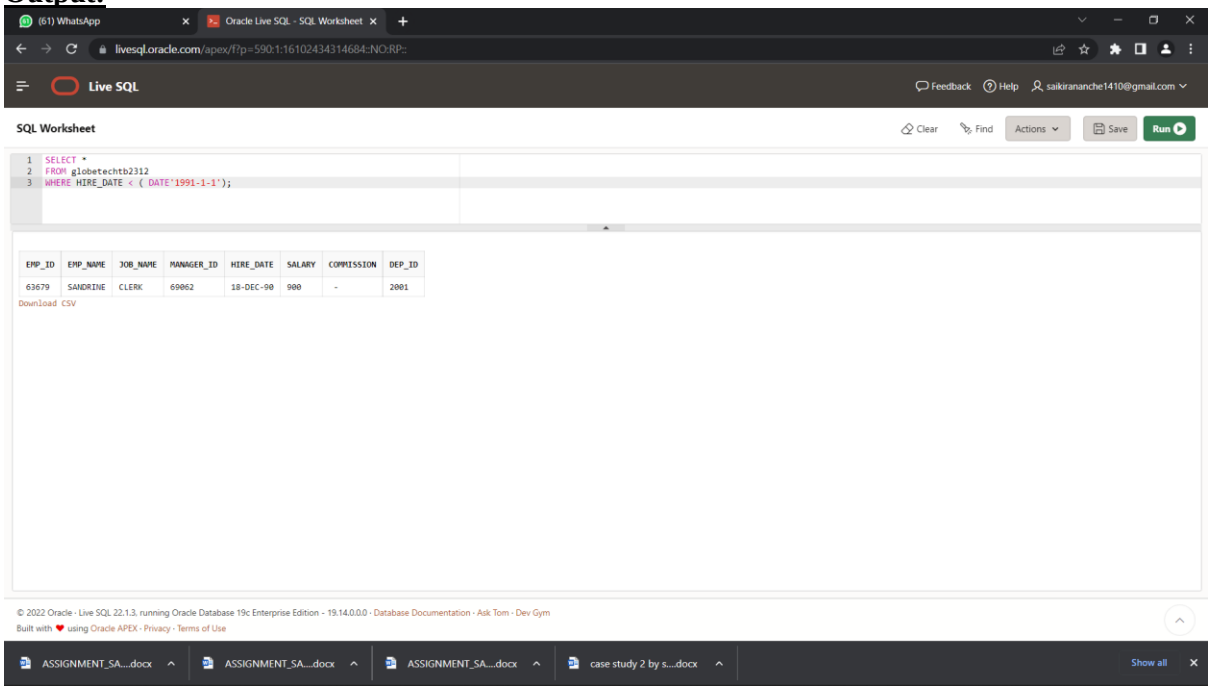


case 47: From the following table, write a SQL query to find those employees who joined before or after the year 1991. Return complete information about the employees.

Query:

```
SELECT *
FROM globetechtb2312
WHERE HIRE_DATE < ( DATE'1991-1-1');
```

Output:



case 48: From the following tables, write a SQL query to find employees along with department name. Return employee ID, employee name, job name, manager ID, hire date, salary, commission, department ID, and department name

Query:

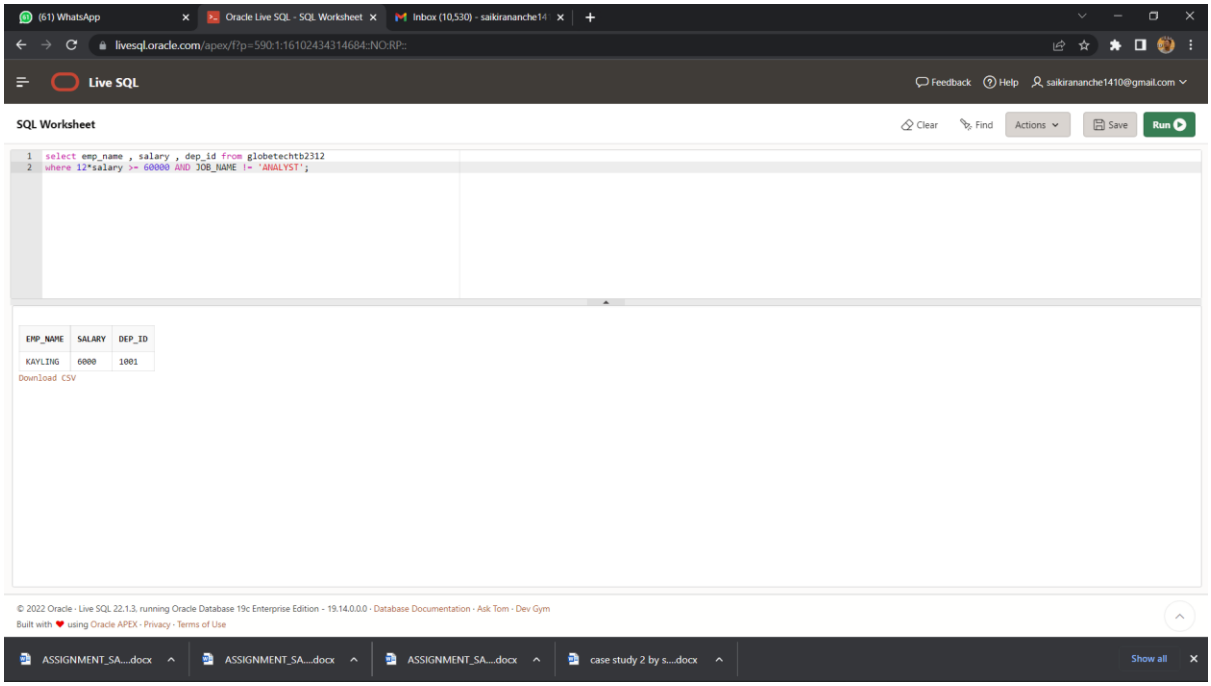
Output:

case 49: From the following tables, write a SQL query to find those employees who earn 60000 in a year or not working as an ANALYST. Return employee name, job name, (12*salary) as Annual Salary, department ID, and grade

Query:

```
select emp_name , salary , dep_id from globetechtb2312
where 12*salary >= 60000 AND JOB_NAME != 'ANALYST';
```

Output:

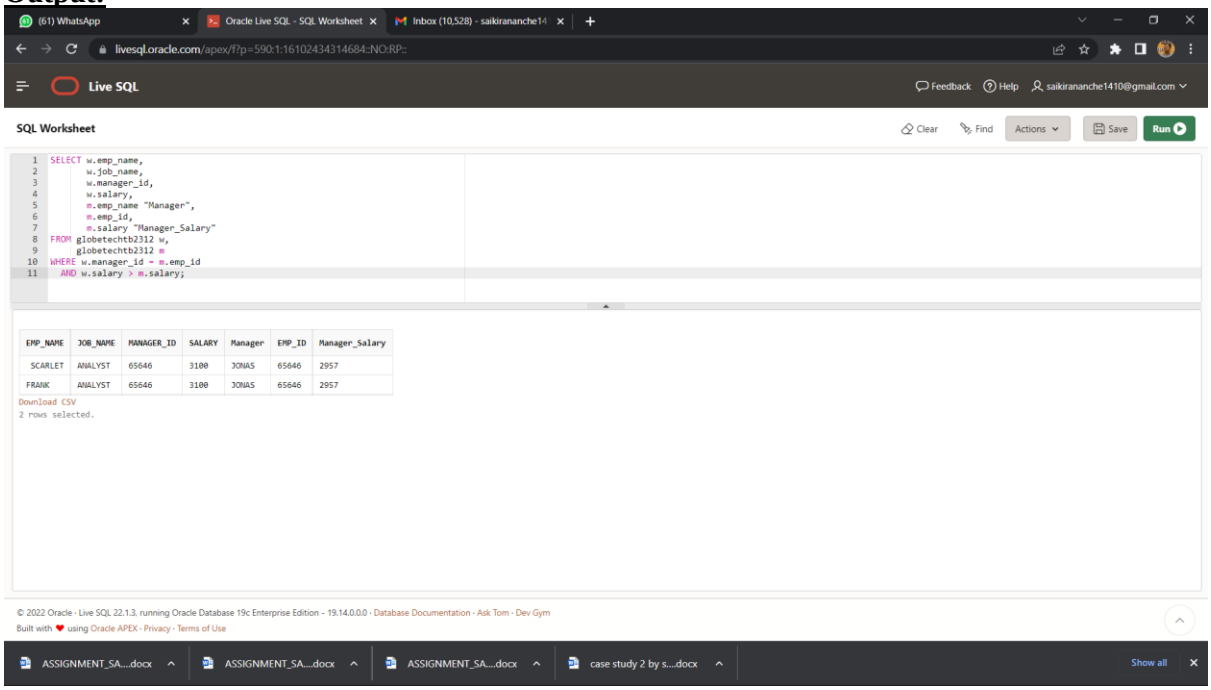


case 50: From the following table, write a SQL query to find those employees whose salary is higher than the salary of their managers. Return employee name, job name, manager ID, salary, manager name, manager's salary.

Query:

```
SELECT w.emp_name,
       w.job_name,
       w.manager_id,
       w.salary,
       m.emp_name "Manager",
       m.emp_id,
       m.salary "Manager_Salary"
FROM globetechtb2312 w,
    globetechtb2312 m
WHERE w.manager_id = m.emp_id
  AND w.salary > m.salary;
```

Output:



RESULT

Almost all the test cases have been solved and presented successfully in the present document.

CONCLUSIONS

Almost all the case studies have been solved successfully with all the concepts that have been covered in the training session. It's really a great experience of learning while solving the cases. This case study gave me immense confidence regarding my ability to upskill in new technologies. Day by day I can see improvement in myself.

REFERENCES

- https://www.w3schools.com/sql