Assignment 2 June 2022

NAME: **ASHOK KUMAR** ROLL NUMBER: DXC-262-AB-1233

BATCH: DXC-262-ANALYTICS-B12-AZURE COMPANY: DXC TECHNOLOGY

EMPLOYEE DOMAIN: AZURE ANALYTICS

TRAINING UNDER: MANIPAL PRO LEARN

TRAINER NAME: MR. AJAY KUMAR

DATE OF SUBMISSION: 2 JUNE 2022 NO. OF CASES: 18

PROBLEM STATEMENT:

CREATE TABLE AND WRITE QUERIES.

STEP 1: CREATE TABLE AND INSERT VALUES INTO THE TABLE

CREATE TABLE:

CREATE TABLE GLOBETECH (EMP_ID INT NOT NULL, EMP_NAME VARCHAR (100) NOT NULL, JOB_NAME VARCHAR (100) NOT NULL, MANAGER_ID INTEGER, HIRE_DATE DATE NOT NULL, SALARY NUMBER (10,2) NOT NULL, COMMISSION NUMBER (10,2), DEP_ID INT NOT NULL, PRIMARY KEY(EMP_ID));

INSERTING VALUES:

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,HIRE_DATE,SALARY,DEP_ID)

VALUES(68319,'KAYLING','PRESIDENT',TO_DATE('1991-11-18','YYYY-MM-DD'),6000.00,1001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(66928,'BLAZE','MANAGER',68319,TO_DATE('1991-05-01','YYYY-MM-DD'),2750.00,3001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

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VALUES(67832,'CLARE','MANAGER',68319,TO_DATE('1991-06-09','YYYY-MM-DD'),2550.00,1001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(65646,'JONAS','MANAGER',68319,TO_DATE('1991-04-02','YYYY-MM-DD'),2957.00,2001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(67858,'SCARLET','ANALYST',65646,TO_DATE('1997-04-19','YYYY-MM-DD'),3100.00,2001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)

VALUES(68454,'TUCKER','SALESMAN',66928,TO_DATE('1991-09-08','YYYY-MM-DD'),1600.00,0.00,3001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)

VALUES(66564,'MADDEN','SALESMAN',66928,TO_DATE('1991-09-28','YYYY-MM-DD'),1350.00,1500.00,3001);

INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)

VALUES(64989,'ADELYN','SALESMAN',66928,TO_DATE('1991-02-20','YYYY-MM-DD'),1700.00,400.00,3001);

INSERT INTO
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GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(63679,'SANDRINE','CLERK',69062,TO_DATE('1990-12-18','YYYY-MM-DD'),900.00,2001);


INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(69062,'FRANK','ANALYST',65646,TO_DATE('1991-12-03','YYYY-MM-DD'),3100.00,2001);


INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,COMMISSION,DEP_ID)

VALUES(65271,'WADE','SALESMAN',66928,TO_DATE('1991-02-22','YYYY-MM-DD'),1350.00,600.00,3001);


INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(69324,'MARKER','CLERK',67832,TO_DATE('1992-01-23','YYYY-MM-DD'),1400.00,1001);


INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(69000,'JULIUS','CLERK',66928,TO_DATE('1991-12-03','YYYY-MM-DD'),1050.00,3001);


INSERT INTO

GLOBETECH(EMP_ID,EMP_NAME,JOB_NAME,MANAGER_ID,HIRE_DATE,SALARY,DEP_ID)

VALUES(68736,'ADNRES','CLERK',67858,TO_DATE('1997-05-23','YYYY-MM-DD'),1200.00,2001);
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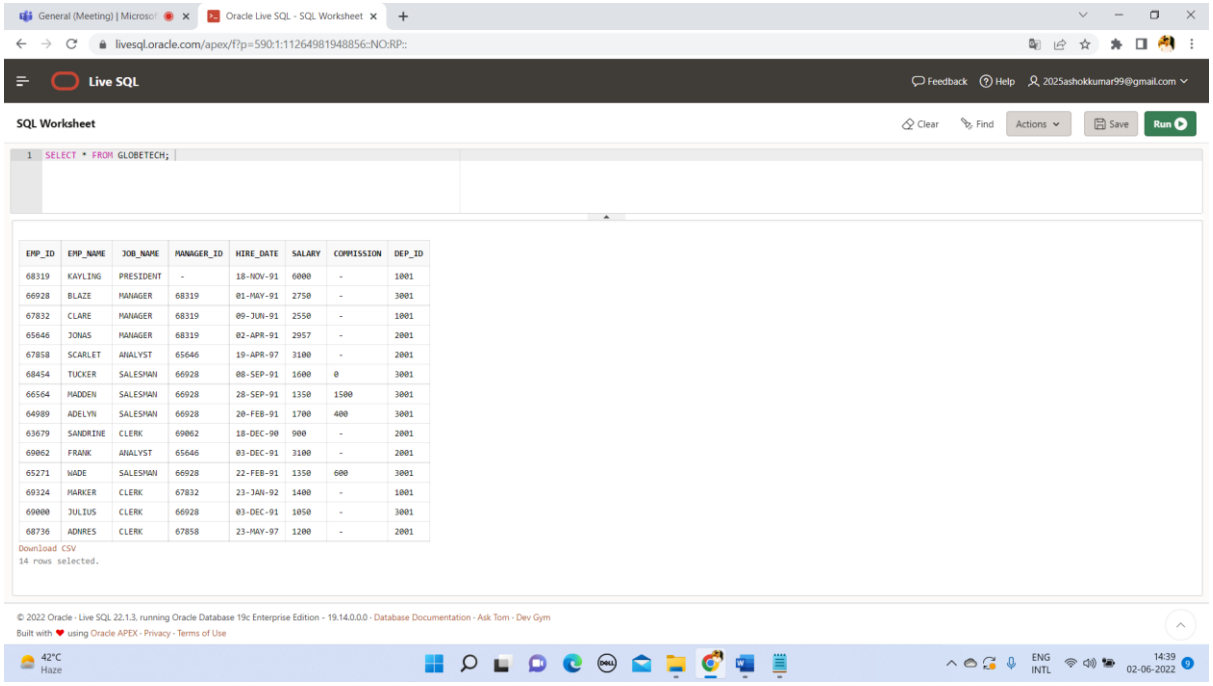
⇨ VIEWING THE TABLE CONTENT USING THE QUERY:

SELECT * FROM GLOBETECH;

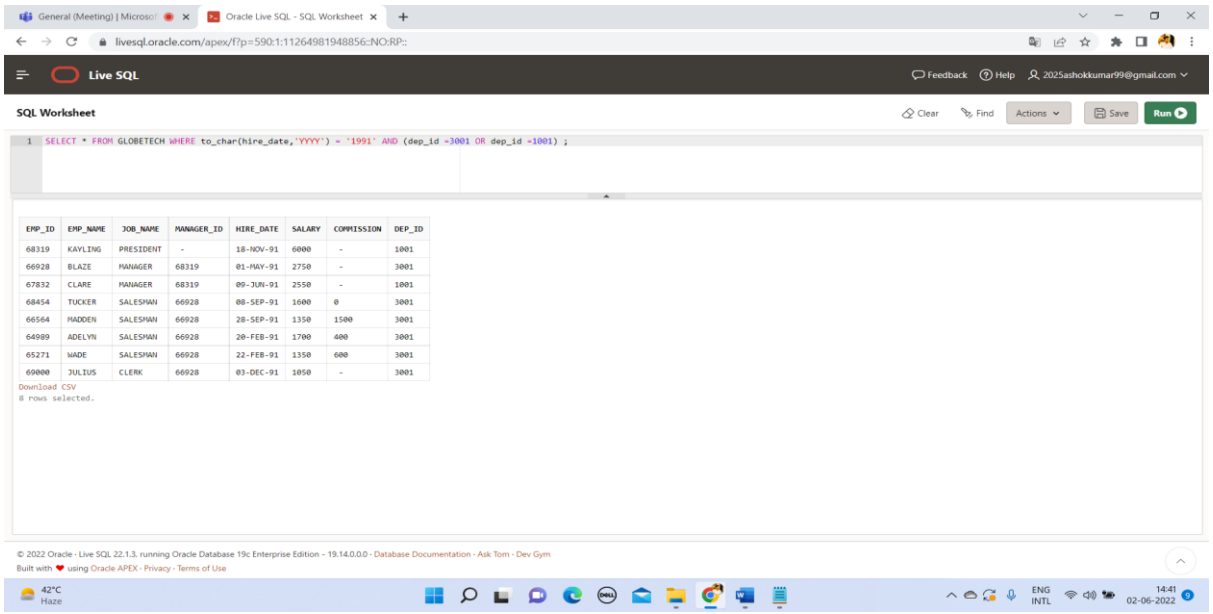
OUTPUT:



STEP 2: WRITE QUERIES ACCORDING TO CASES GIVEN

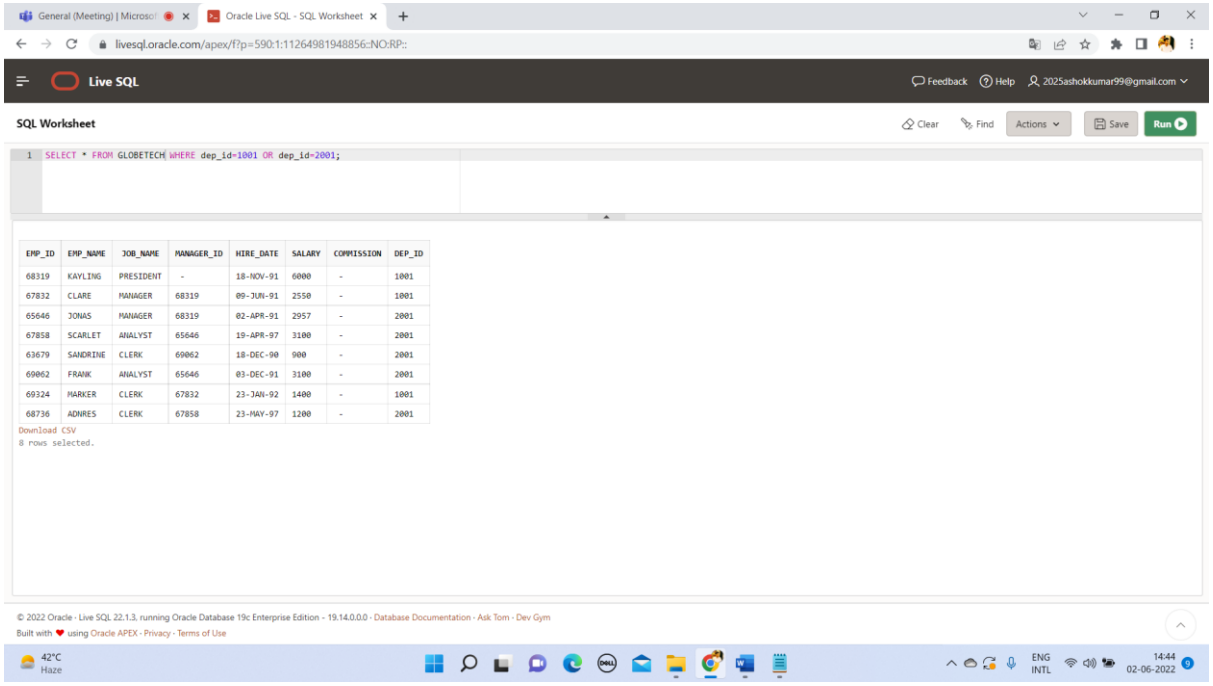
CASE 33: From the following table, write a SQL query to find those employees of department id 3001 or 1001 and joined in the year 1991. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'YYYY') = '1991' AND (dep_id =3001 OR dep_id =1001) ;



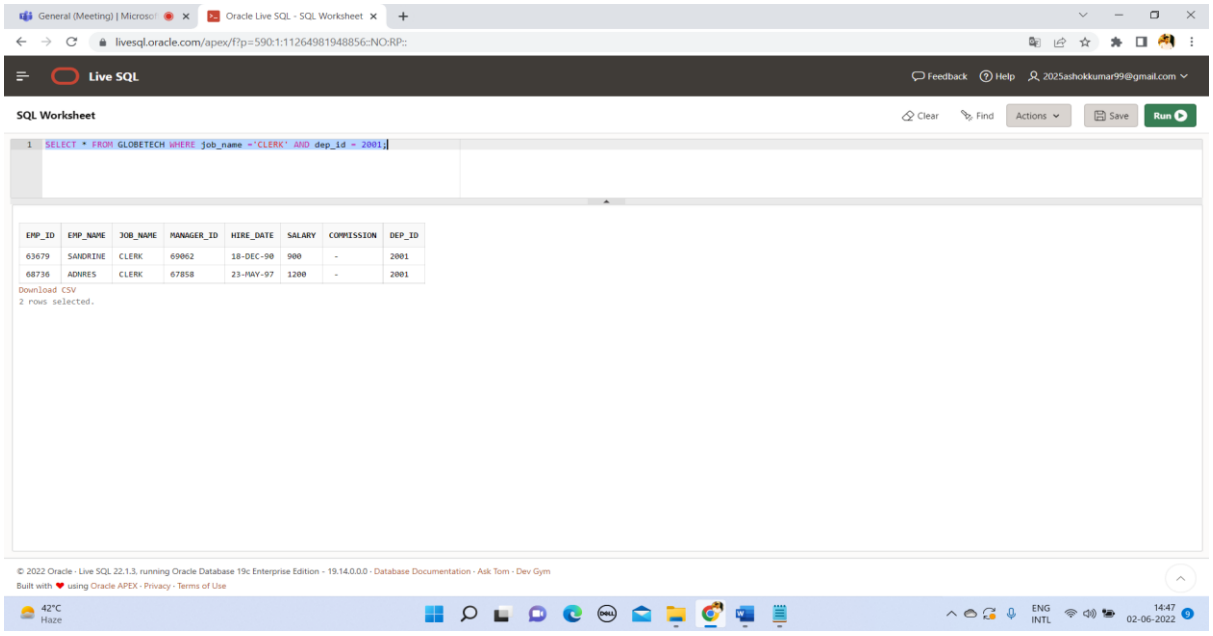
CASE 34: From the following table, write a SQL query to find those employees who are working for the department ID 1001 or 2001. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE dep_id=1001 OR dep_id=2001;



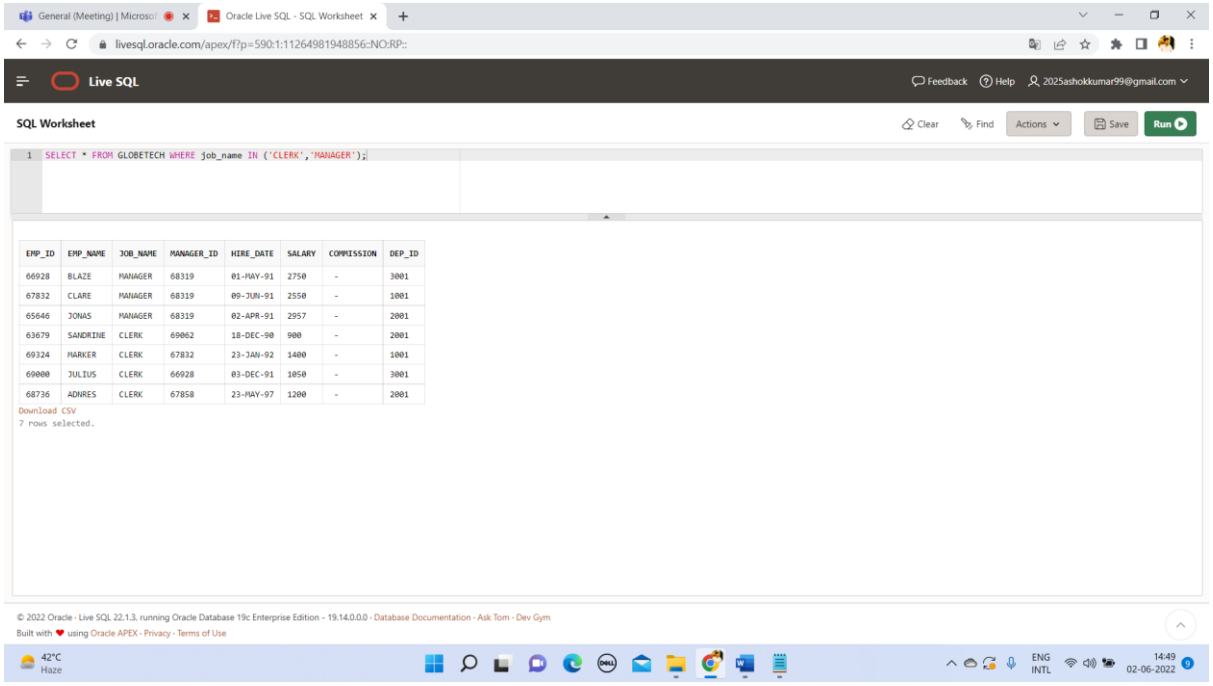
CASE 35: From the following table, write a SQL query to find those employees whose designation is ‘CLERK’ and work in the department ID 2001. Return complete information about the employees.

QUERY: SELECT * FROM GLOBETECH WHERE job_name ='CLERK' AND dep_id = 2001;



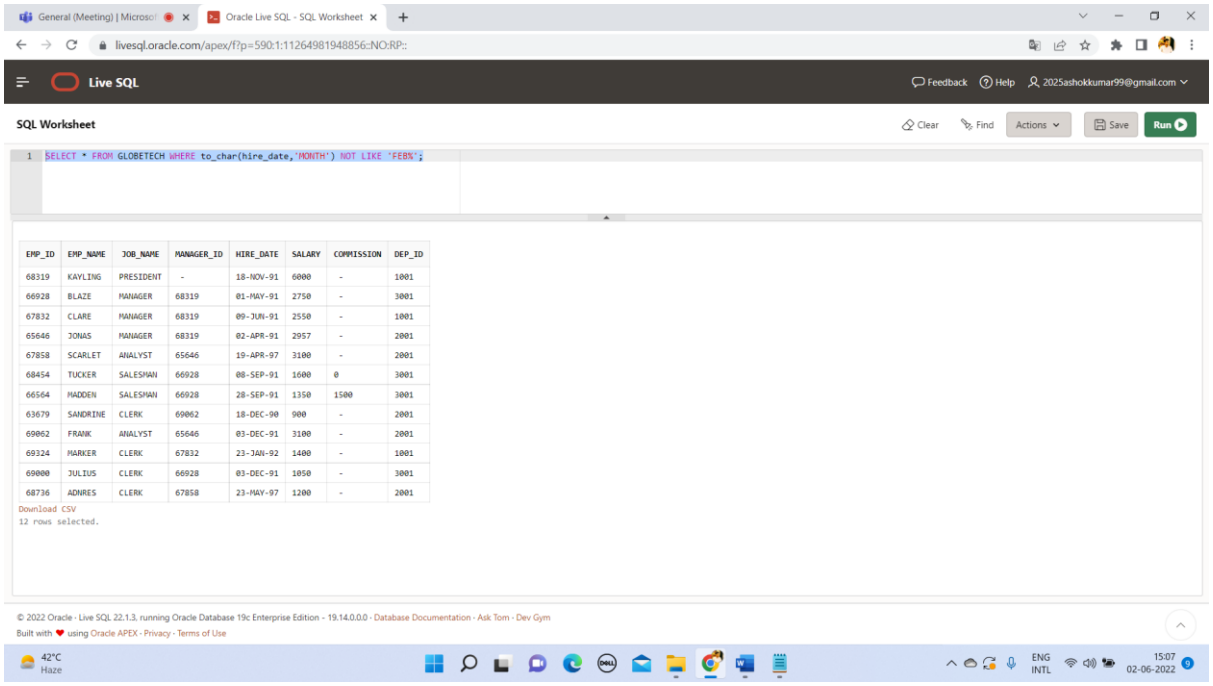
CASE 36: From the following table, write a SQL query to find those employees who are either CLERK or MANAGER. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE job_name IN ('CLERK','MANAGER');



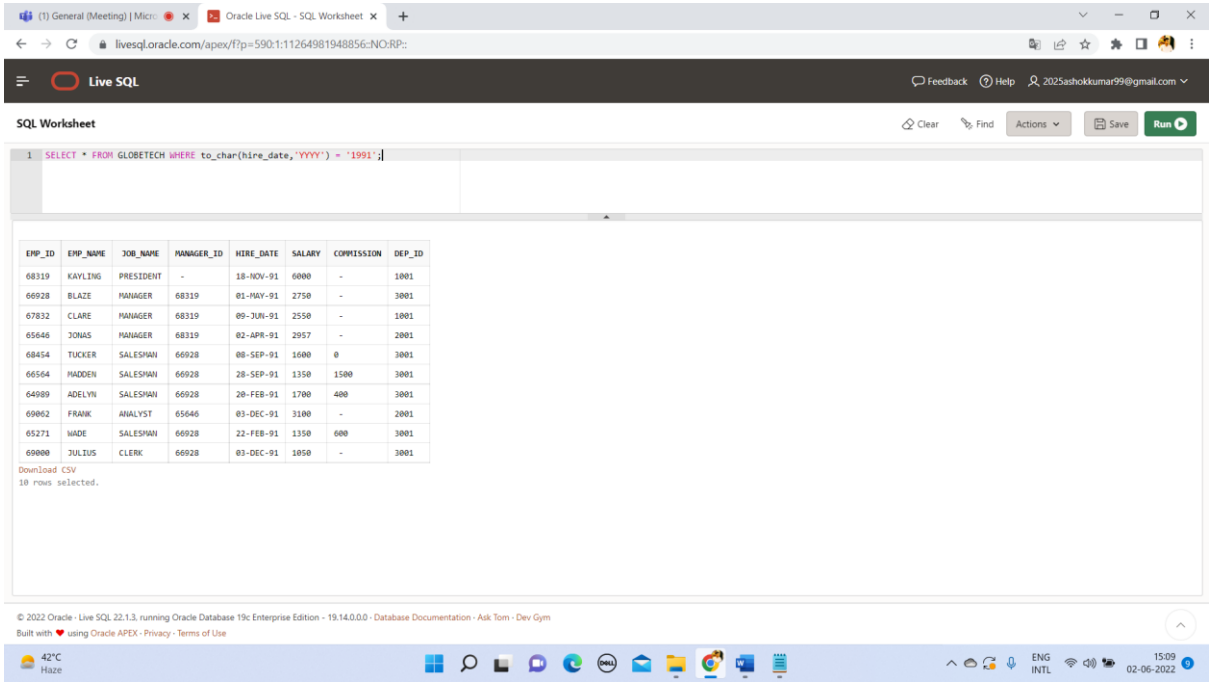
CASE 37: From the following table, write a SQL query to find those employees who joined in any year except the month of February. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'MONTH') NOT LIKE 'FEB%';



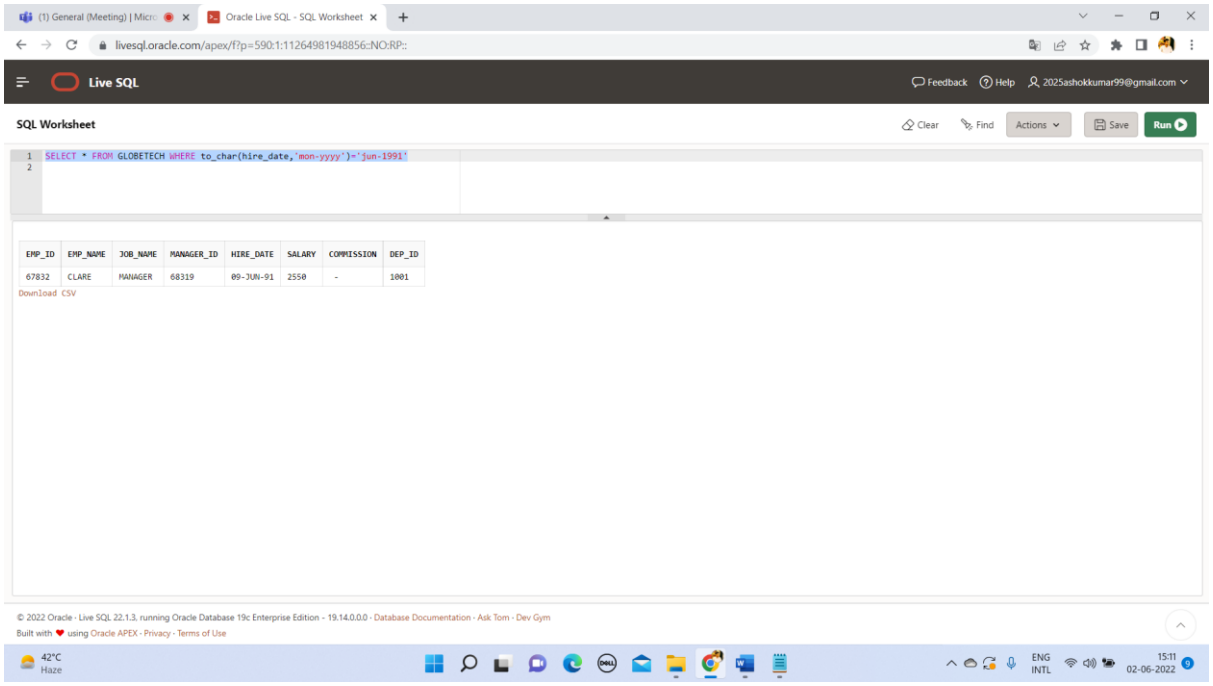
CASE 38: From the following table, write a SQL query to find those employees who joined in the year 91. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'YYYY') = '1991';



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

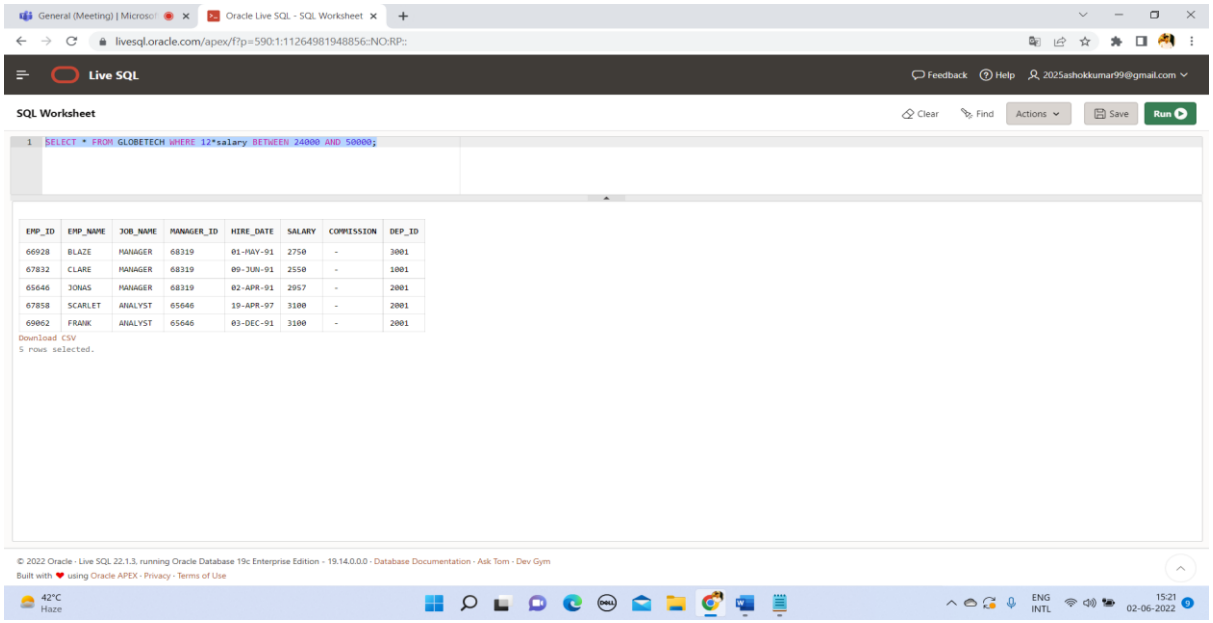
QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'mon-yyyy')='jun-1991'



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.

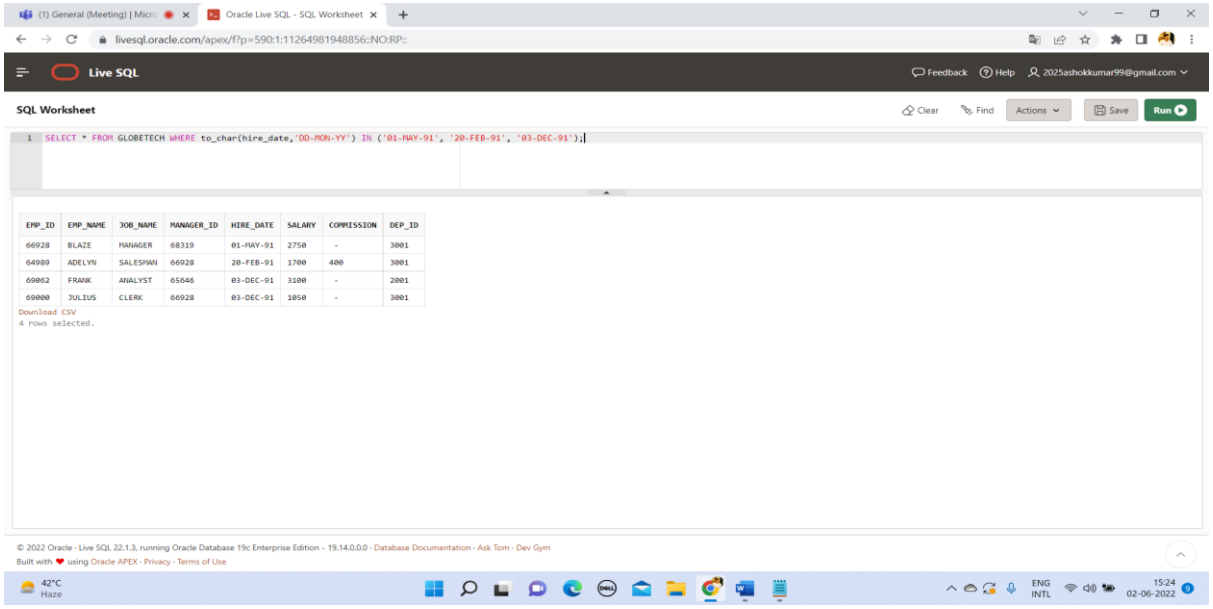
QUERY: SELECT * FROM GLOBETECH WHERE 12*salary BETWEEN 24000 AND 50000;

(Performed action for 12*salary because in case salary range is annual)



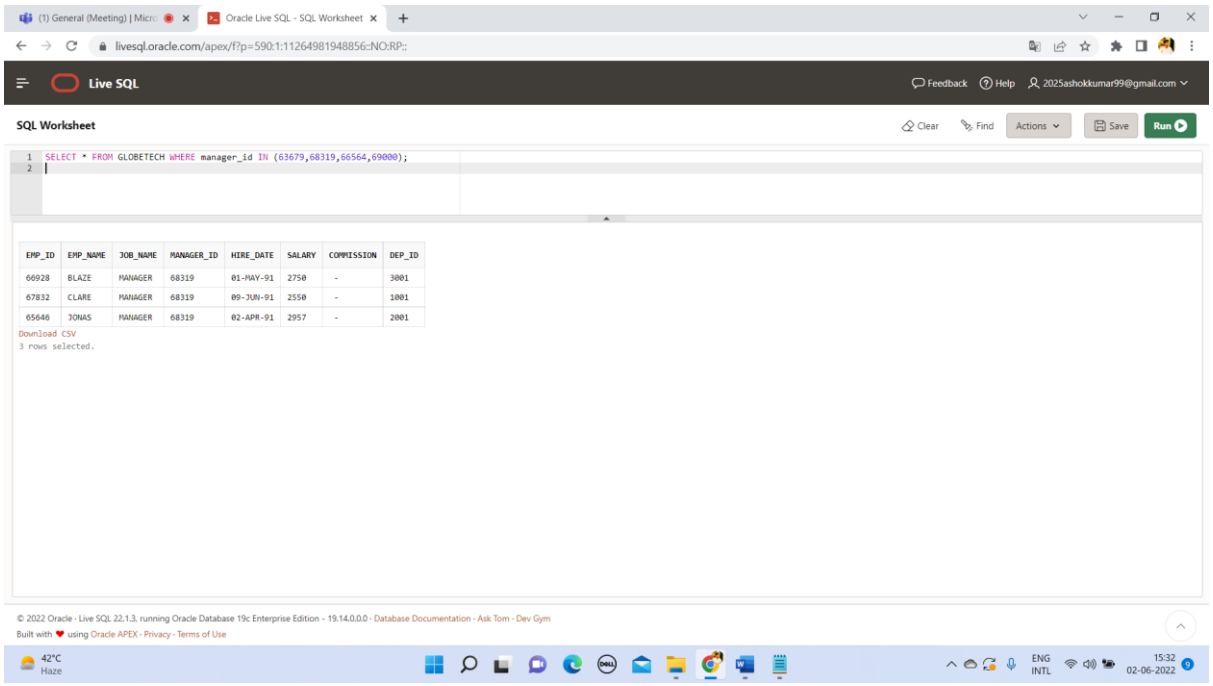
CASE 41: From the following table, write a SQL query to find all those employees who have joined on 1st May, 20th Feb, and 3rd Dec in the year 1991. Return complete information about the employees.

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



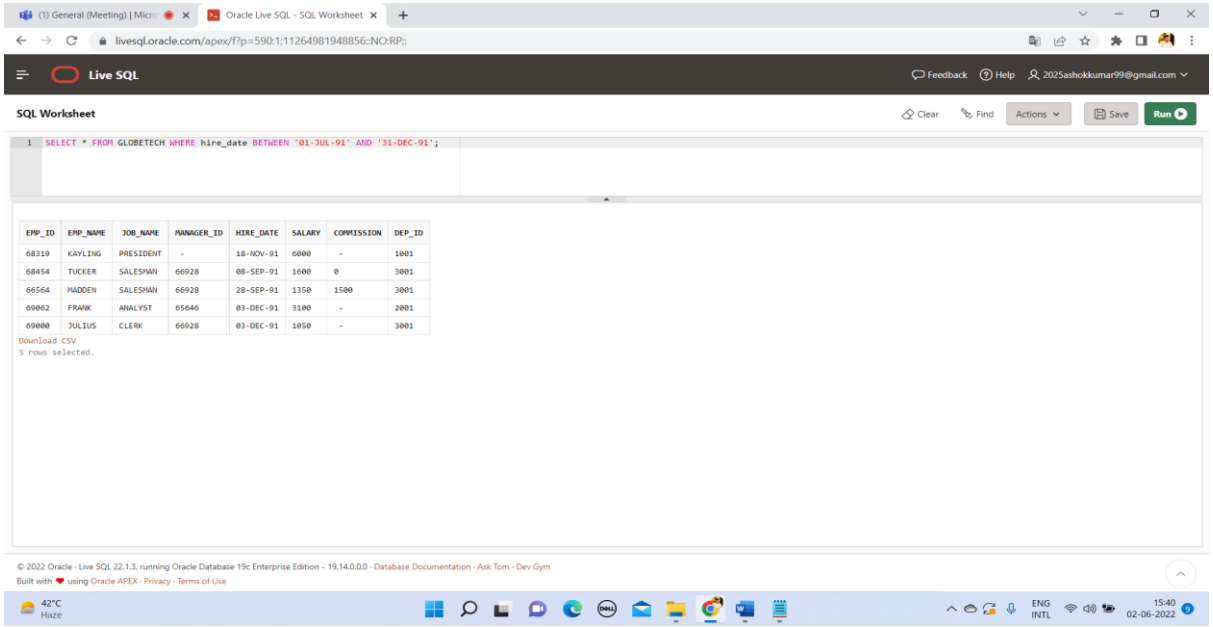
CASE 42: From the following table, write a SQL query to find those employees working under the managers 63679 or 68319 or 66564 or 69000. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE manager_id IN (63679,68319,66564,69000);



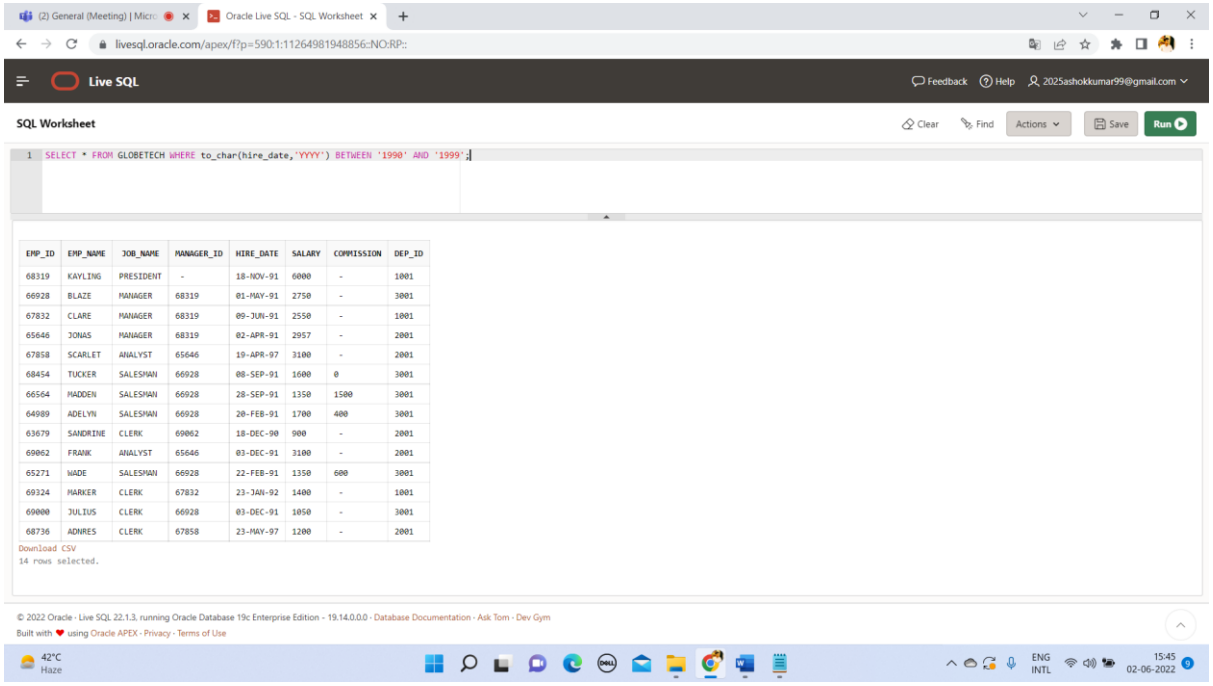
CASE 43: From the following table, write a SQL query to find those employees who joined after the month JUNE in the year 1991 and within this year. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE hire_date BETWEEN '01-JUL-91' AND '31-DEC-91';



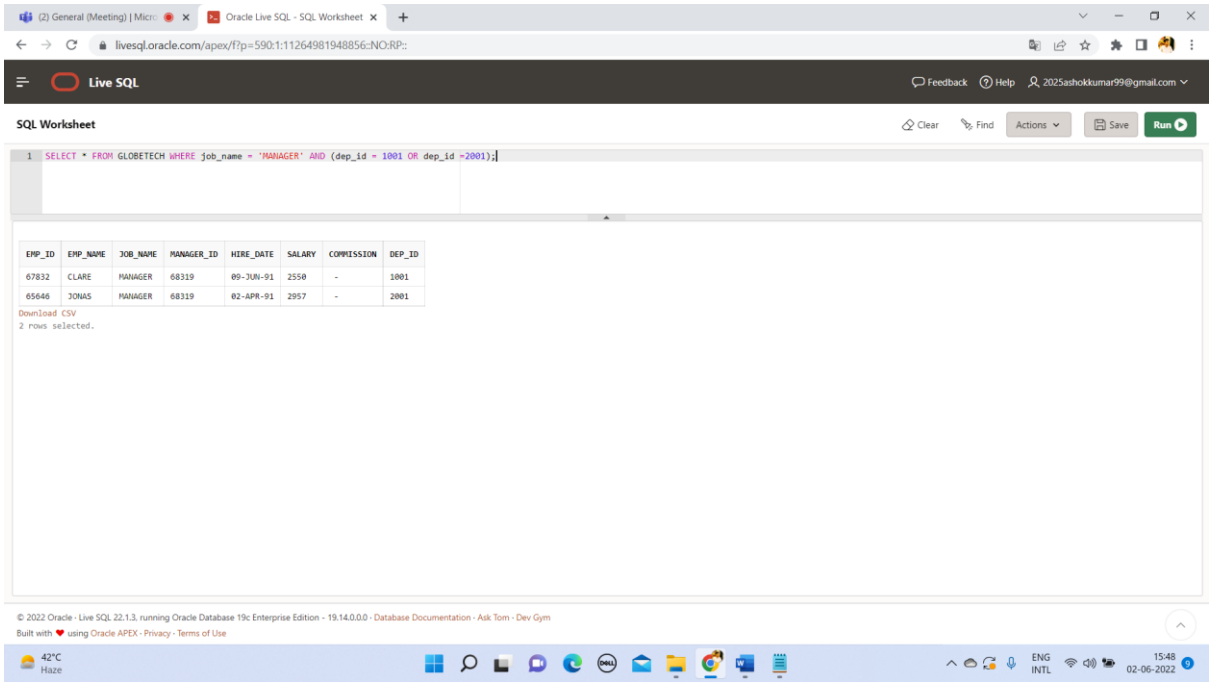
CASE 44: From the following table, write a SQL query to find those employees who joined in 90's. Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'YYYY') BETWEEN '1990' AND '1999';



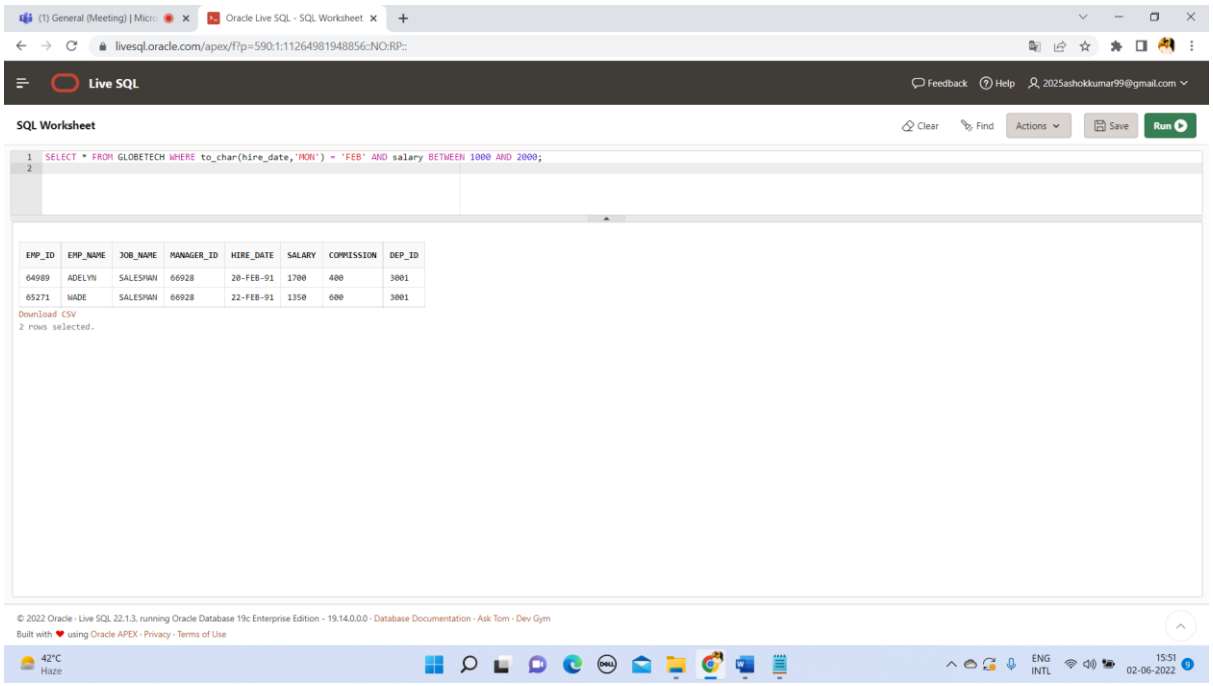
CASE 45: From the following table, write a SQL query to find those managers who are in the department 1001 or 2001. Return complete information about the employees.

QUERY: SELECT * FROM GLOBETECH WHERE job_name = 'MANAGER' AND (dep_id = 1001 OR dep_id =2001);



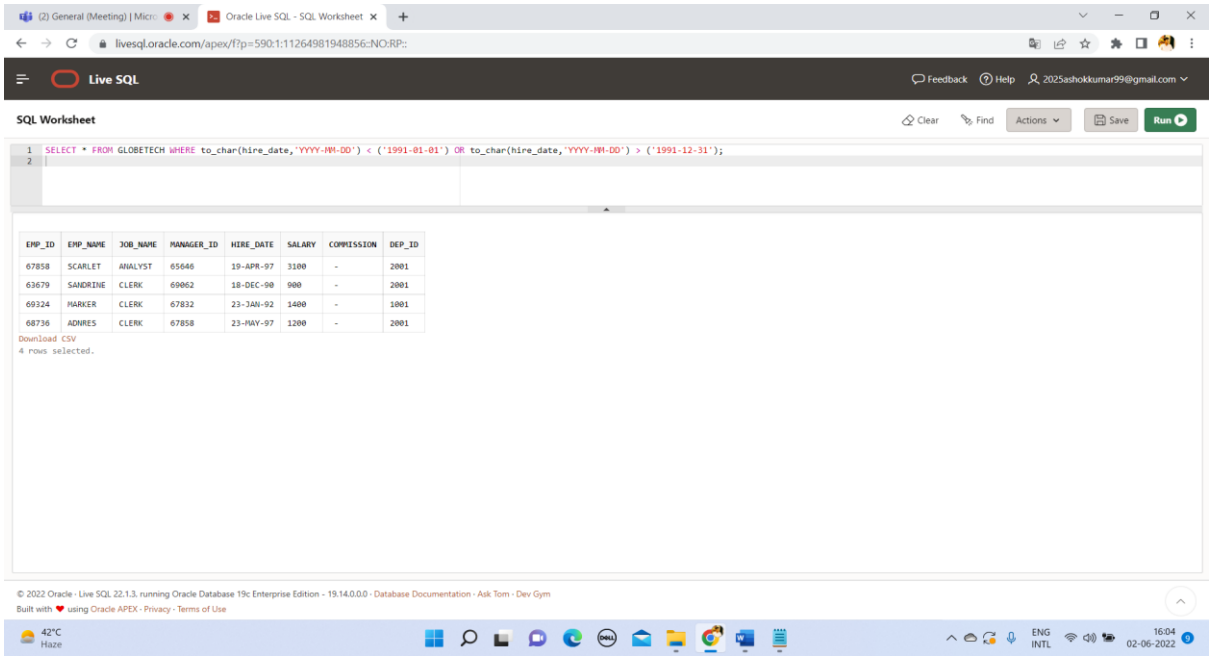
CASE 46: From the following table, write a SQL query to find those employees who joined in the month FEBRUARY with a salary range between 1001 to 2000 (Begin and end values are included.). Return complete information about the employees

QUERY: SELECT * FROM GLOBETECH WHERE to_char(hire_date,'MON') = 'FEB' AND salary BETWEEN 1000 AND 2000;



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 GLOBETECH WHERE to_char(hire_date,'YYYY-MM-DD') < ('1991-01-01') OR to_char(hire_date,'YYYY-MM-DD') > ('1991-12-31');



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: Create department table: CREATE TABLE department (DEP_ID INT NOT NULL, DEP_NAME VARCHAR (100) NOT NULL);

Insert values in department table:

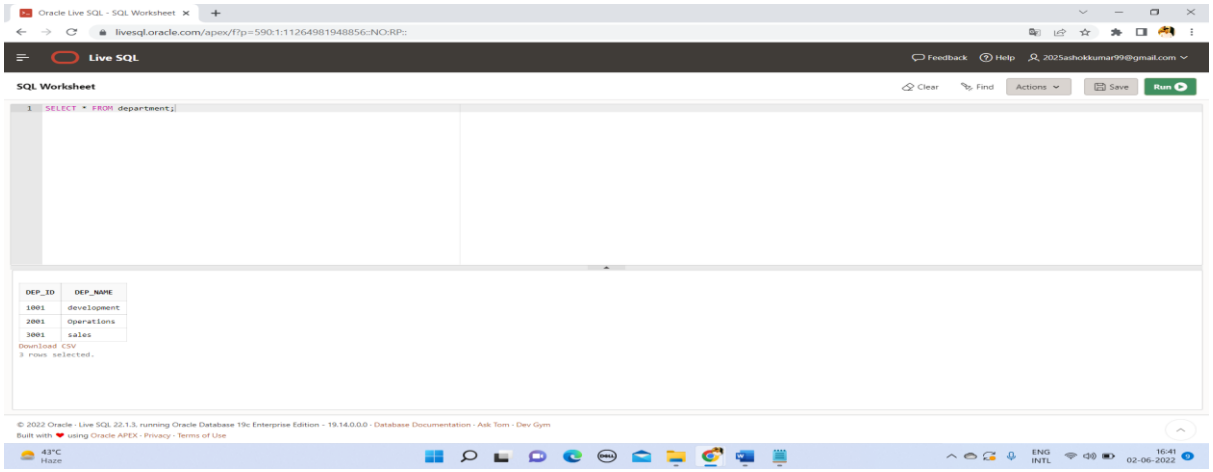
INSERT INTO department(DEP_ID,DEP_NAME) VALUES(1001,'development');

INSERT INTO department(DEP_ID,DEP_NAME) VALUES(2001,'Operations');

INSERT INTO department(DEP_ID,DEP_NAME) VALUES(3001,'sales');

VIEW THE TABLE CONTENT USING THE QUERY:

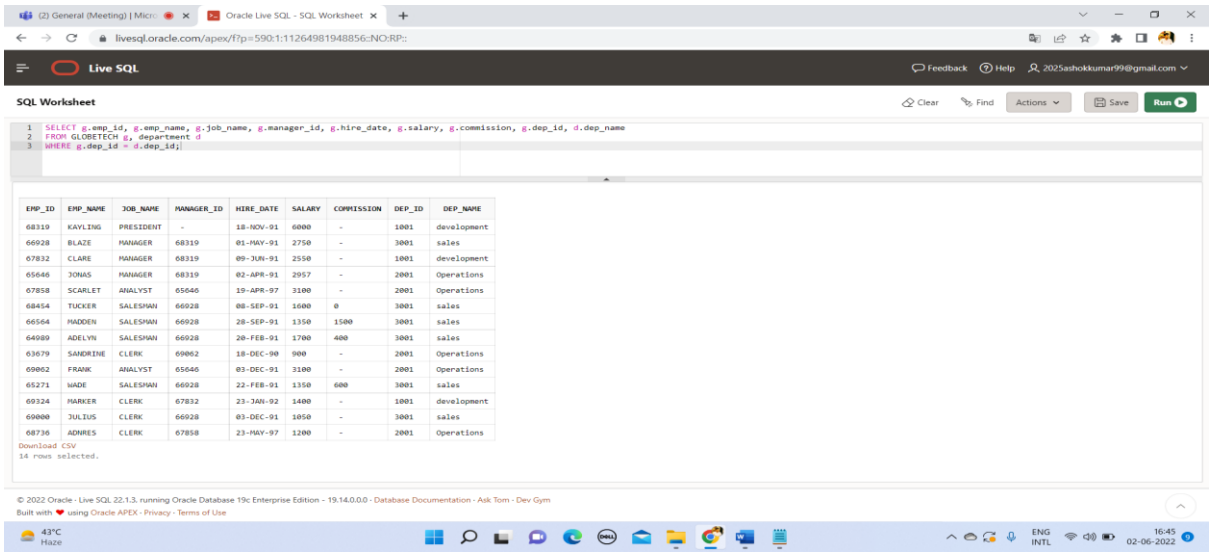
SELECT * FROM department;



Query to display case 48: SELECT g.emp_id, g.emp_name, g.job_name, g.manager_id, g.hire_date, g.salary, g.commission, g.dep_id, d.dep_name

FROM GLOBETECH g, department d

WHERE g.dep_id = d.dep_id;



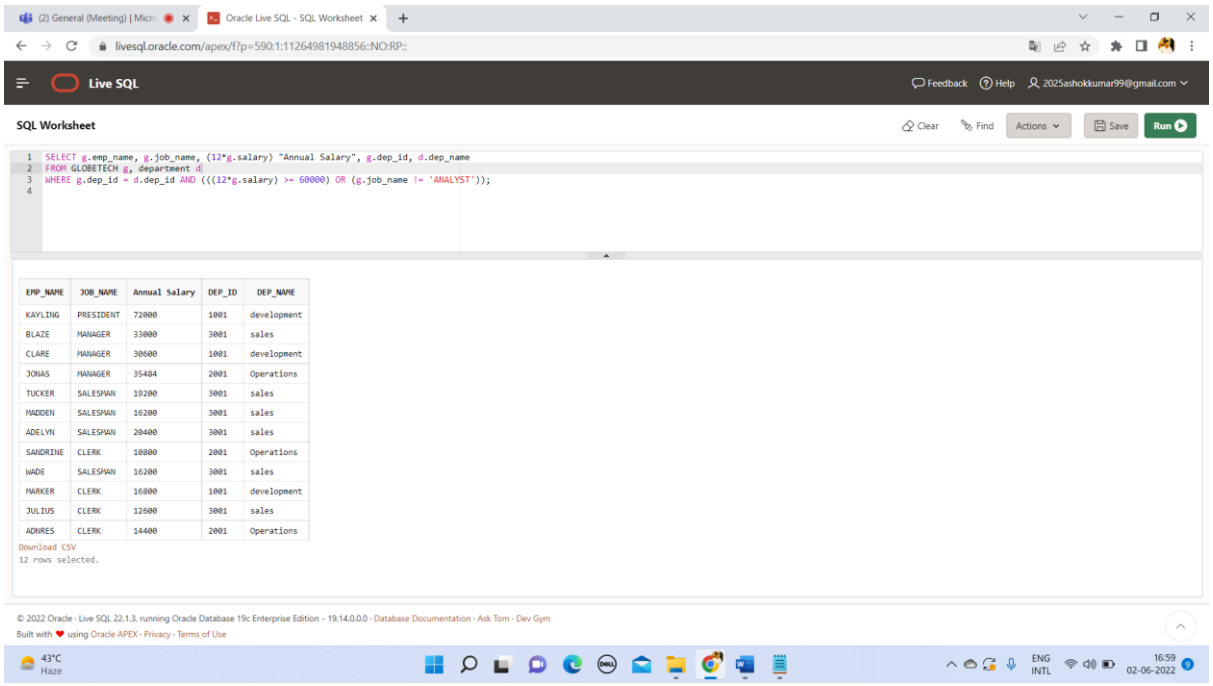
CASE 49: From the following tables, write a SQL query to find those employees who earn 60000 in a year or not working as an ANALYST. Return employee name, job name, (12*salary) as Annual Salary, department ID, and grade

QUERY: SELECT g.emp_name, g.job_name, (12*g.salary) "Annual Salary", g.dep_id, d.dep_name

FROM GLOBETECH g, department d

WHERE g.dep_id = d.dep_id AND (((12*g.salary) >= 60000) OR (g.job_name != 'ANALYST'));

(missing grade part because I am confused in which context we have to make grade table)

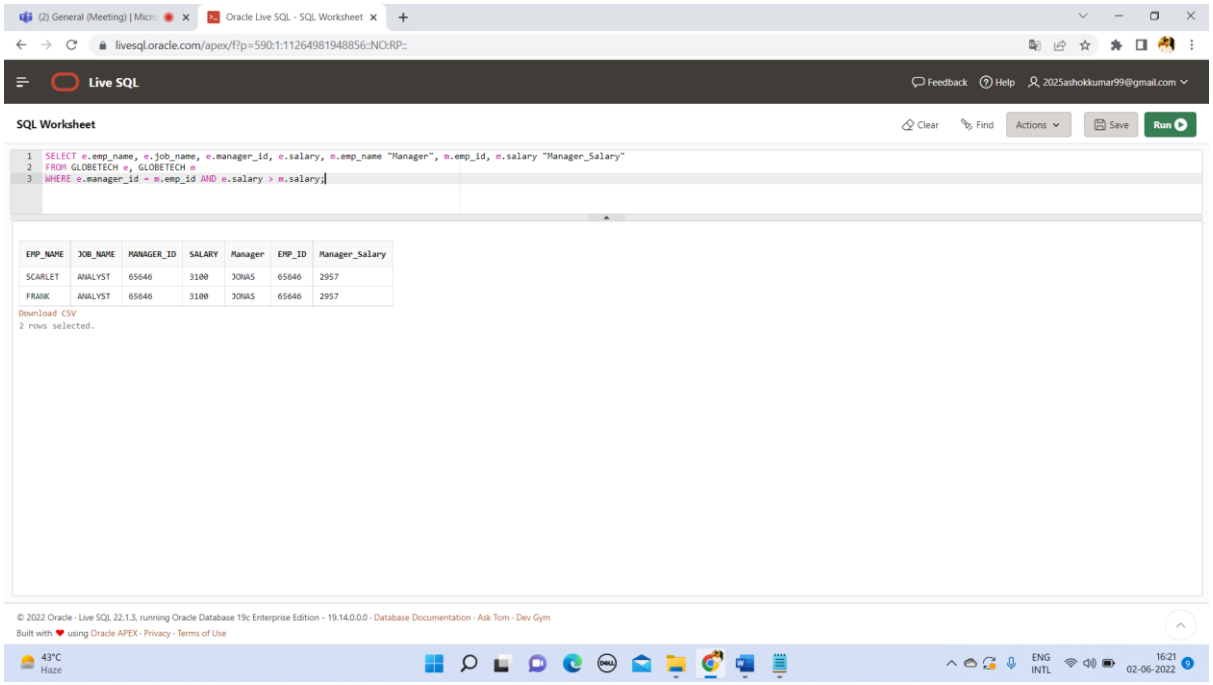


CASE 50: From the following table, write a SQL query to find those employees whose salary is higher than the salary of their managers. Return employee name, job name, manager ID, salary, manager name, manager's salary.

QUERY: SELECT e.emp_name, e.job_name, e.manager_id, e.salary, m.emp_name "Manager", m.emp_id, m.salary "Manager_Salary"

FROM GLOBETECH e, GLOBETECH m

WHERE e.manager_id = m.emp_id AND e.salary > m.salary;



THANK YOU!