Answer Sheet - SQL

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Major Question 1

A) List the salary of all the employees.

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--A) List the salary of all the employees
--WE WILL SELECT SALARY COLUMN FROM THE TABLE EMPLOYEE
SELECT SALARY FROM EMPLOYEE
--IF WE WANT MORE COUMN THEN WE CAN TYPE COLUMN NAME
--EXAMPLE: SELECT ENAME, SEX, SALARY FROM EMPLOYEE
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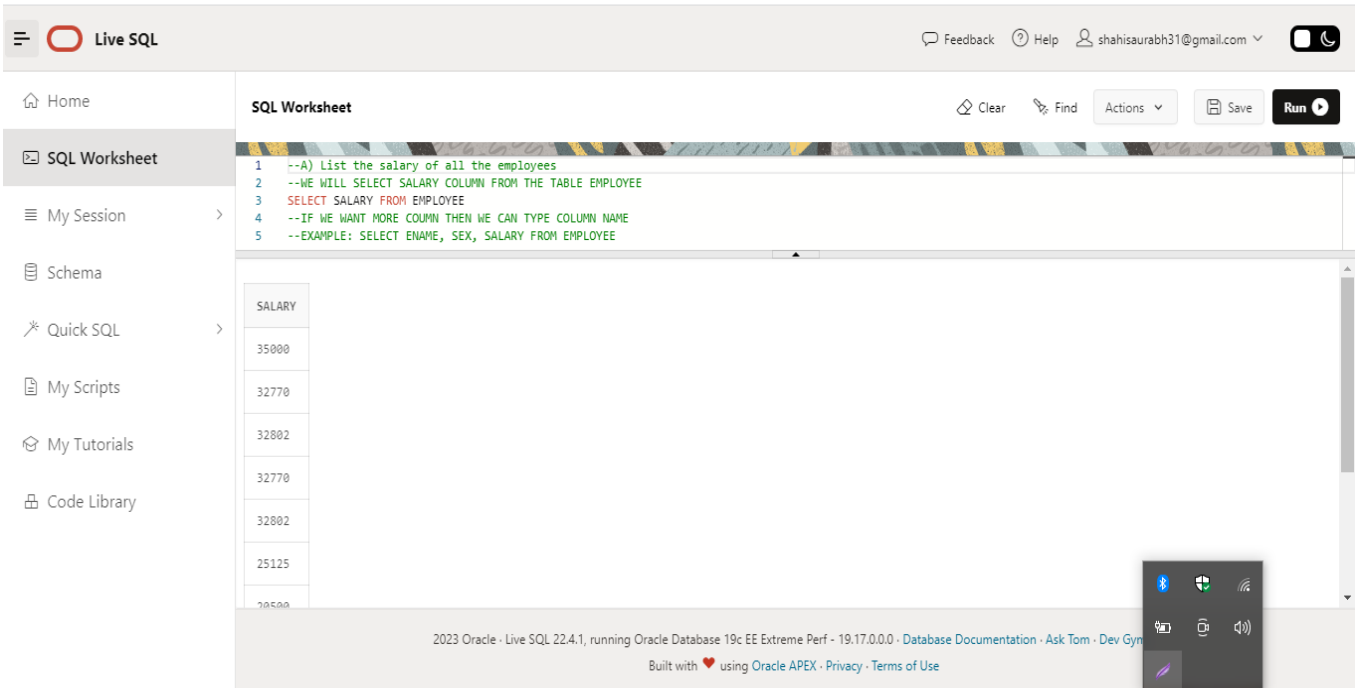

B) Display the names of all employees with any “A” at any place of the name.

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--Display the names of all employees with any “A” at any place of the name.

SELECT * FROM EMPLOYEE

WHERE ENAME LIKE '%A%'
```

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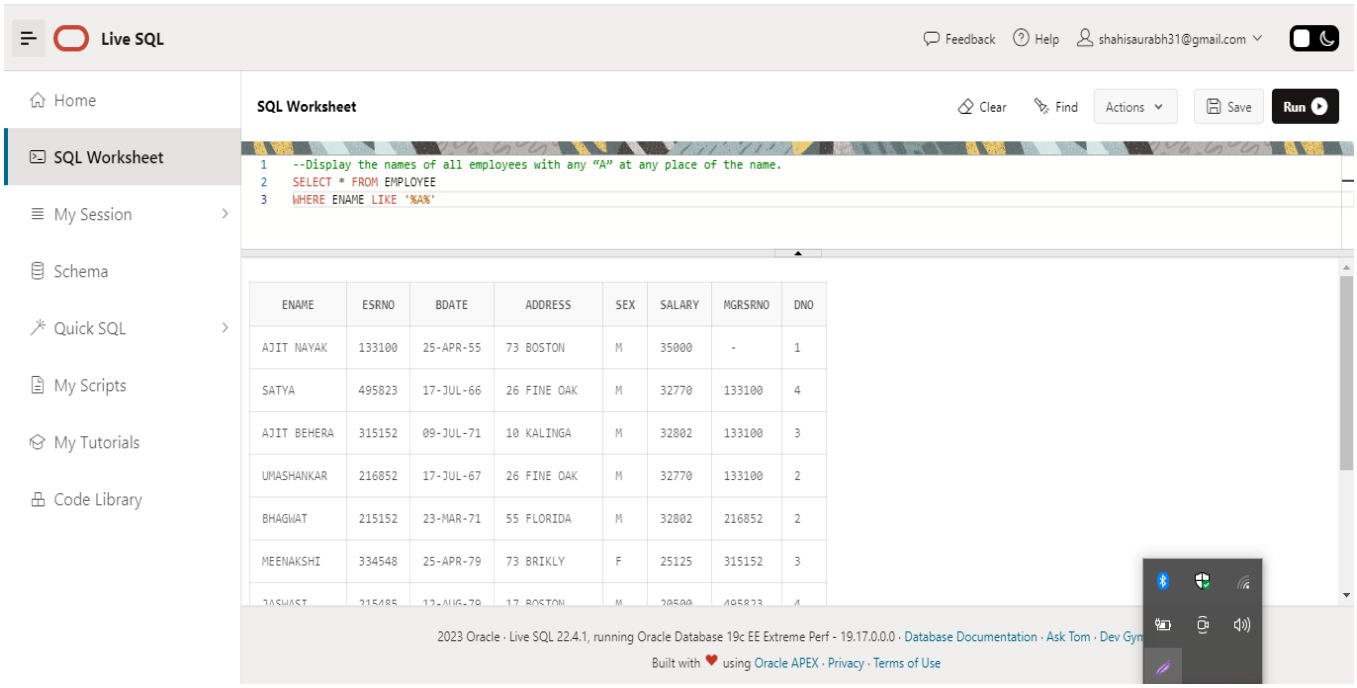

C) Show all employees who were hired in the first half of the month (Before the 16th of the month).

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--Show all employees who were hired in the first half of the month(Before the 16th of the month).(HIRING DATE WASN'T GIVEN SO CONSIDERED MGRSTRD AS HIRING DATE)

--JOIN THE DEPARTMENT TABLE AND EMPLOYEE TABLE AND PUT IT IN SUB QUERRY

--SELECT REQUIRED COLUMN AND RUN WHERE QUERRY AND EXTRACT DAY AND MAKE IT LESS THAN 16(AS BEFORE 16 REQUIRED)

SELECT * FROM (SELECT EMPLOYEE.ENAME, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, DEPARTMENT.MGRSTARTD

FROM EMPLOYEE

LEFT JOIN DEPARTMENT

ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER)

WHERE EXTRACT(DAY FROM MGRSTARTD) < 16
```

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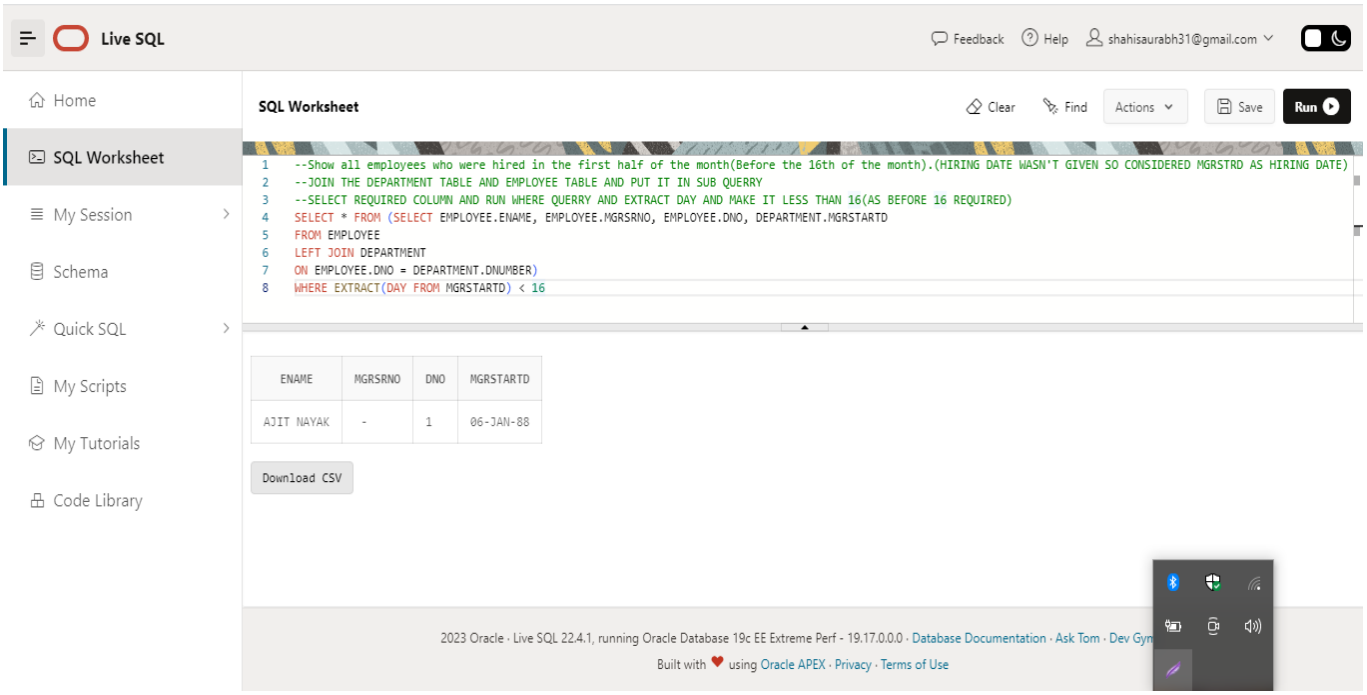

D) Display the name of all female employees.

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-- Display the name of all female employees.

SELECT ENAME, SEX FROM EMPLOYEE

WHERE SEX = 'F'
```

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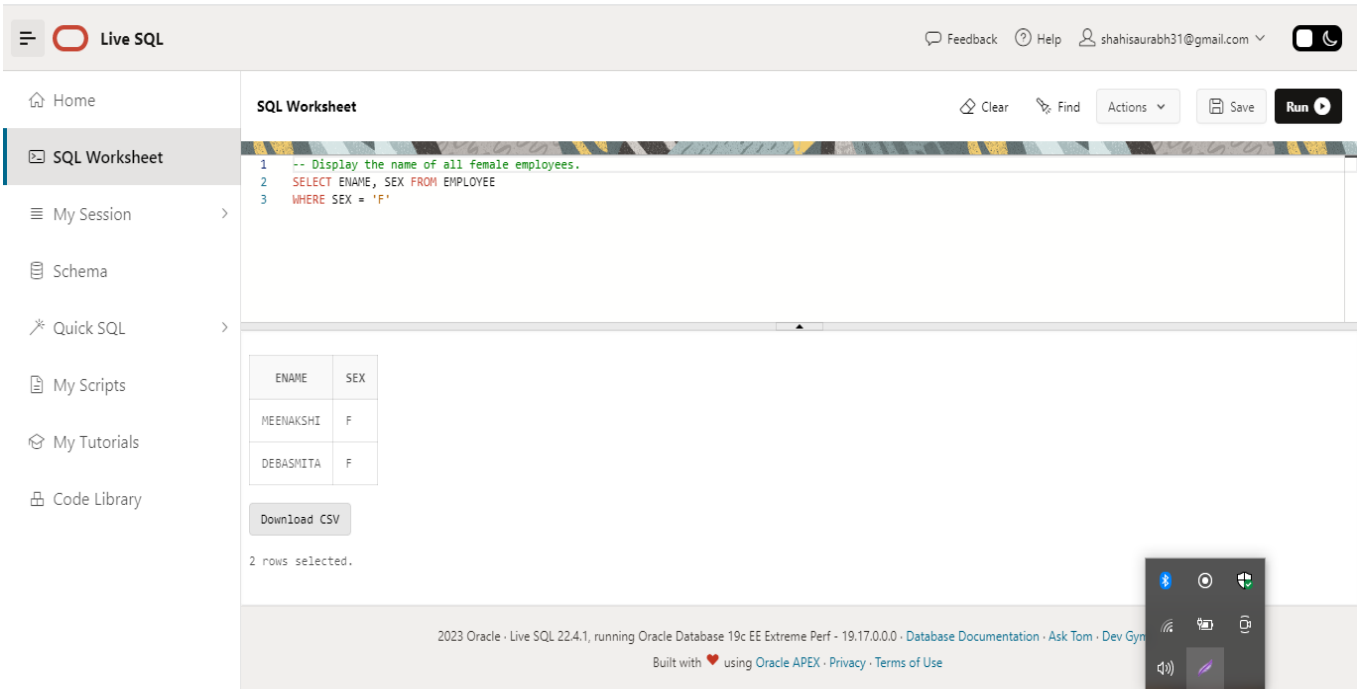

E) Display the employee who is paid most in the company.

```
--Display the employee who is paid most in the company.
--MAKE A SUBQUERRY AND SELECT SALARY AS MAX
--DONT PUT SUBQUERRY IN FROM AS WE NEED ALL DETAILS OF EMPLOYEE AS WELL SO PUT IT IN WHERE
SELECT * FROM EMPLOYEE
WHERE SALARY = (SELECT MAX(SALARY) FROM EMPLOYEE)
```

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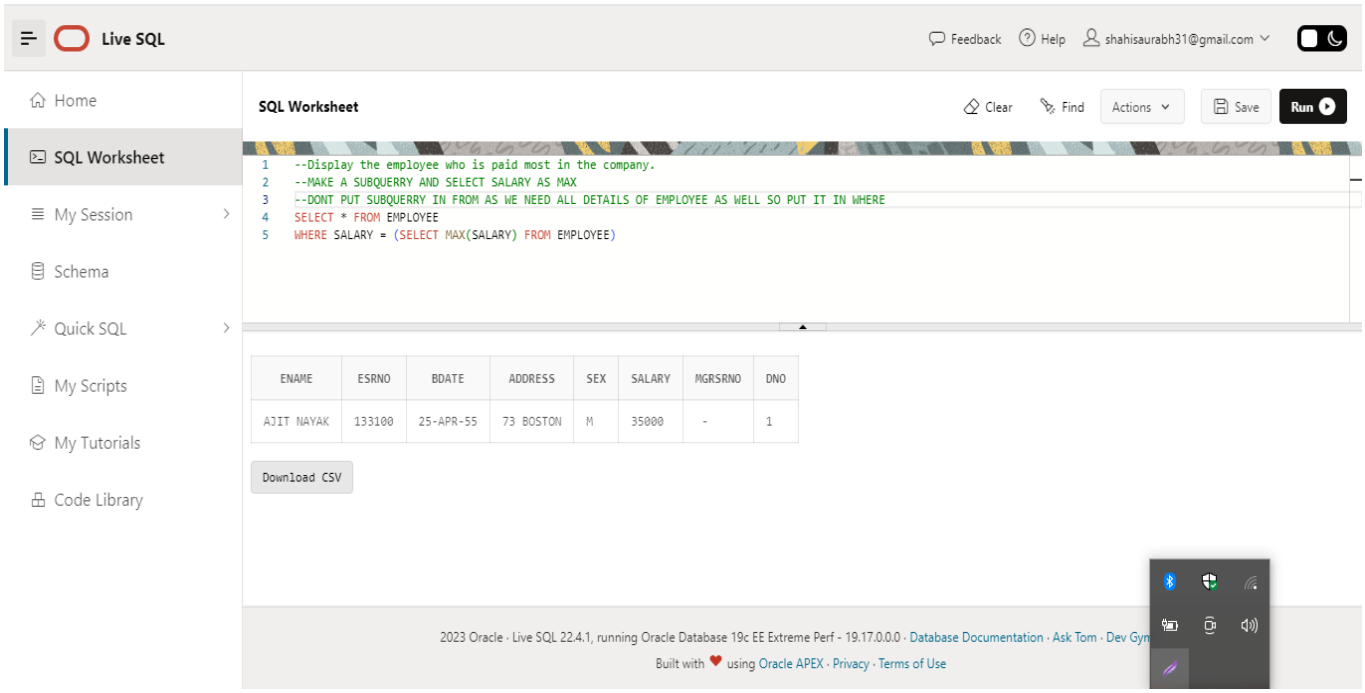

Major Question 2

A) Display employee name, address, department no and department name.

```
--Display employee name, address, department no and department name.
--JOIN THE REQUIRED TABLE(EMPLOYEE AND DEPARTMENT) AND SELECT REQUIRED COLUMNS
SELECT EMPLOYEE.ENAME, EMPLOYEE.ADDRESS, EMPLOYEE.DNO, DEPARTMENT.DNAME
FROM EMPLOYEE
LEFT JOIN DEPARTMENT
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER
```

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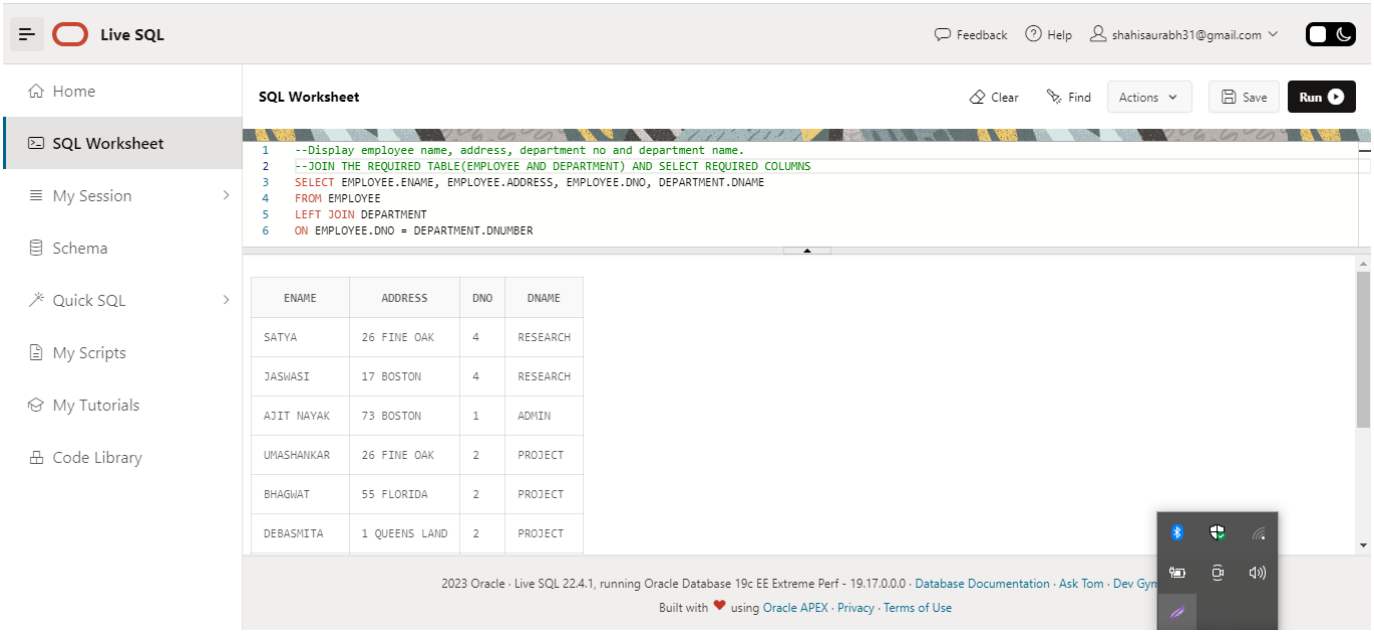

B) Display all the employees who are *not in* ACADEMIC department

```
--Display all the employees who are not in ACADEMIC department

--JOIN THE REQUIRED TABLE(EMPLOYEE AND DEPARTMENT) AND SELECT REQUIRED COLUMNS. USE WHERE QUERRY AND NOT EQUAL TO ACADEMIC

SELECT EMPLOYEE.ENAME, EMPLOYEE.ESRNO, EMPLOYEE.BDATE, EMPLOYEE.ADDRESS, EMPLOYEE.SEX, EMPLOYEE.SALARY, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, DEPARTMENT.DNAME

FROM EMPLOYEE

LEFT JOIN DEPARTMENT

ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER

WHERE DNAME <> 'ACADEMIC'
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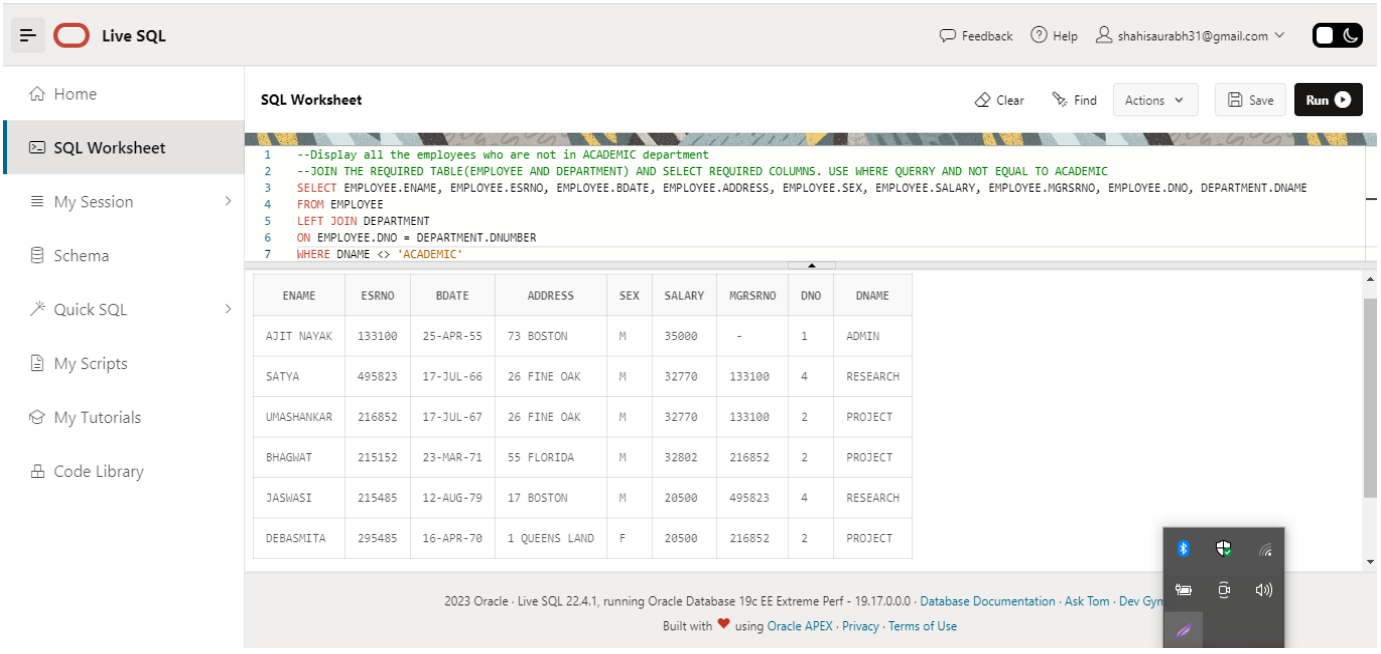

C) Display SATYAS' project location.

```
--Display SATYA'S project location.

--JOIN THE REQUIRED TABLE(EMPLOYEE AND PROJECT) AND SELECT REQUIRED COLUMNS. USE WHERE QUERRY TO FILTER SATYA

SELECT EMPLOYEE.ENAME, EMPLOYEE.ADDRESS, EMPLOYEE.DNO, PROJECT.PNAME, PROJECT.PLOCATION

FROM EMPLOYEE

LEFT JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM

WHERE ENAME = 'SATYA'
```

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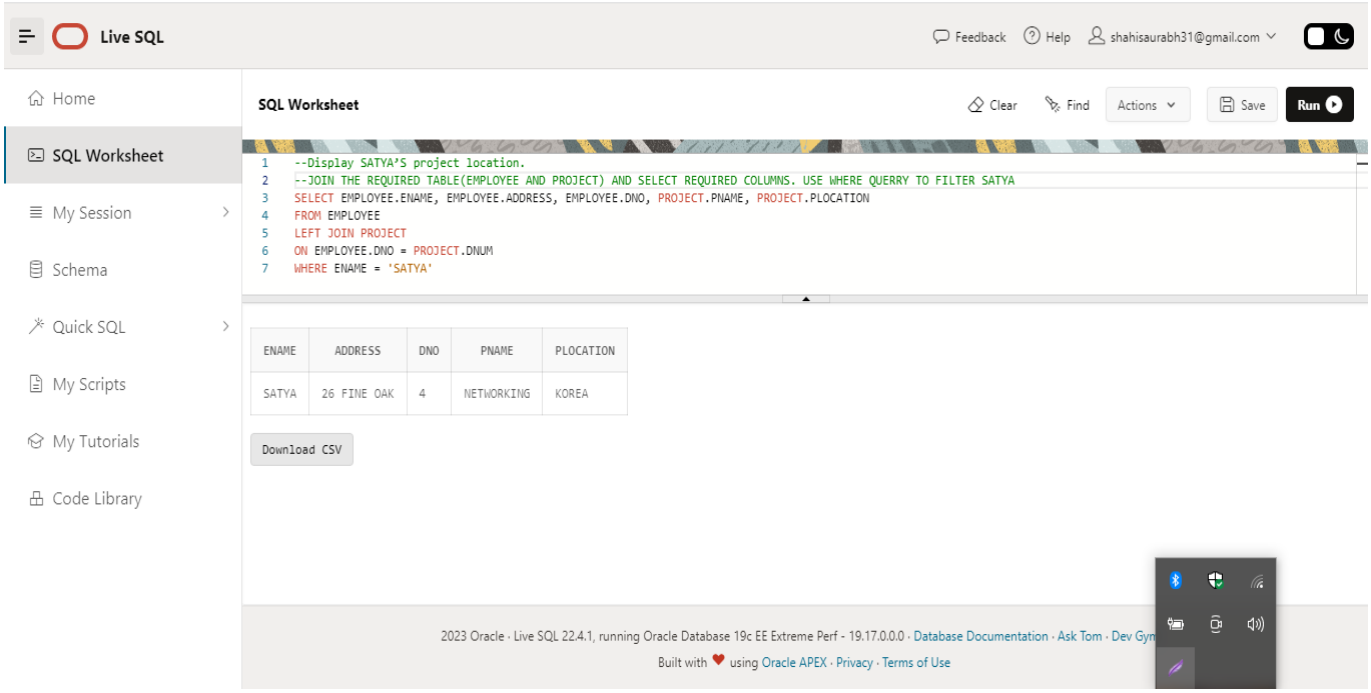

D) Find the total working hours of *each* female employee.

```
--Find the total working hours of each female employee.

--MAKE A SUBQUERRY OF JOINED TABLE(EMPLOYEE AND WORKS_ON) AND SELECT REQUIRED COLUMNS. FILTER SUBQUERRY USING WHERE FOR SEX AS "F" (FEMALE)

--SUM THE WORKING HOURS AND GROUP BY NAME

SELECT ENAME, SUM(HOURS) AS "TOTAL WORKING HOURS"

FROM(SELECT EMPLOYEE.ENAME, EMPLOYEE.SEX, EMPLOYEE.ADDRESS, EMPLOYEE.DNO, WORKS_ON.HOURS

FROM EMPLOYEE

LEFT JOIN WORKS_ON

ON EMPLOYEE.ESRNO = WORKS_ON.ESRNO

WHERE SEX = 'F')

GROUP BY ENAME
```

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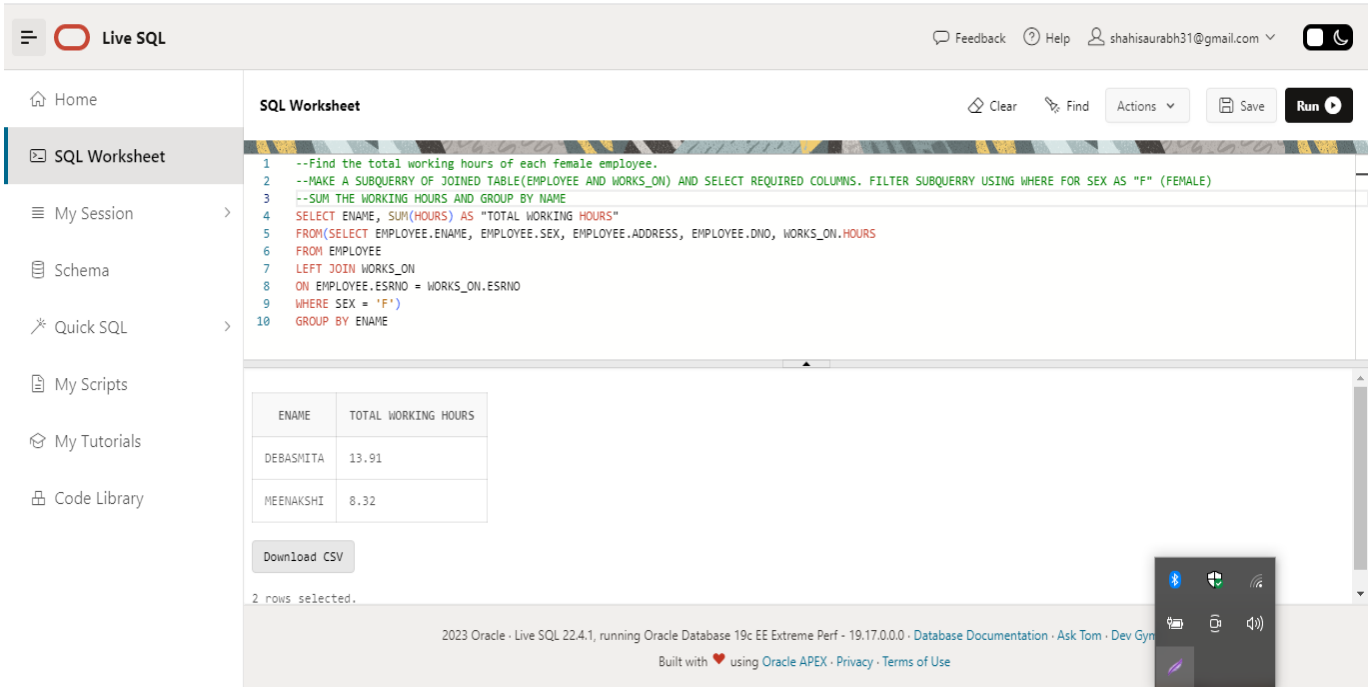

E) Display the details of the people whose projects are located at SOUTH AFRICA.

```
--Display the details of the people whose projects are located at SOUTH AFRICA.

--JOIN THE REQUIRED TABLE(EMPLOYEE AND PROJECT) AND SELECT REQUIRED COLUMNS.

SELECT EMPLOYEE.ENAME, EMPLOYEE.ESRNO, EMPLOYEE.BDATE, EMPLOYEE.ADDRESS, EMPLOYEE.SEX,
EMPLOYEE.SALARY, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, PROJECT.PLOCATION

FROM EMPLOYEE

LEFT JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM
```

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