

Answer Sheet - SQL

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Major Question 1

A) List the salary of all the employees.

```
--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 COLUMN THEN WE CAN TYPE COLUMN NAME  
--EXAMPLE: SELECT ENAME, SEX, SALARY FROM EMPLOYEE
```

Insert Image-

The screenshot shows the Live SQL interface. On the left is a sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the following SQL code:

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

Below the code editor, the query results are displayed in a table with one column, 'SALARY', containing the following values:

SALARY
35000
32770
32802
32770
32802
25125
70500

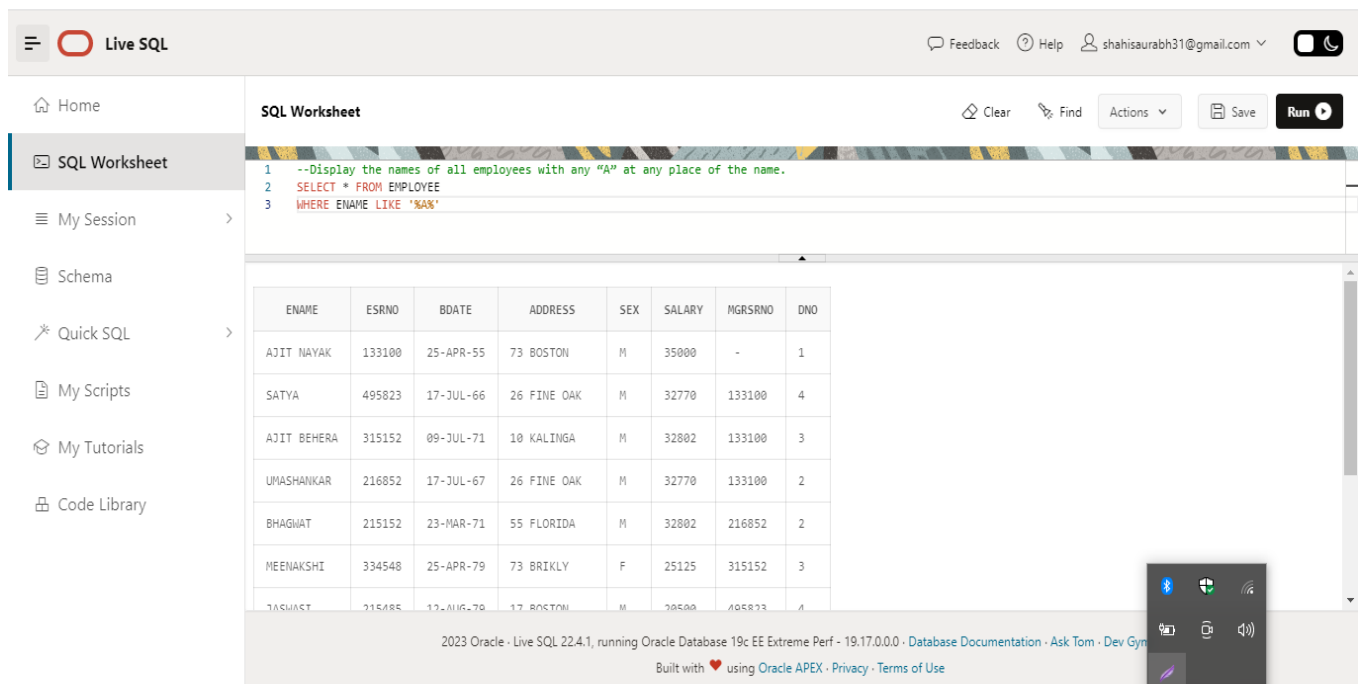
At the bottom of the interface, there is a footer with the text: '2023 Oracle - Live SQL 22.4.1, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym'. Below this, it says 'Built with ❤️ using Oracle APEX - Privacy - Terms of Use'.

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

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

```
SELECT * FROM EMPLOYEE  
WHERE ENAME LIKE '%A%'
```

Insert Image —



The screenshot shows the Live SQL web application interface. On the left is a sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a SQL query:

```
1 --Display the names of all employees with any "A" at any place of the name.  
2 SELECT * FROM EMPLOYEE  
3 WHERE ENAME LIKE '%A%'
```

 Below the query, a table of results is displayed with columns: ENAME, ESRNO, BDATE, ADDRESS, SEX, SALARY, MGRSRNO, and DNO. The table contains 8 rows of employee data. At the bottom of the interface, there is a status bar indicating '2023 Oracle - Live SQL 22.4.1, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0' and a footer note 'Built with ❤️ using Oracle APEX · Privacy · Terms of Use'.

ENAME	ESRNO	BDATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO
AJIT NAYAK	133100	25-APR-55	73 BOSTON	M	35000	-	1
SATYA	495823	17-JUL-66	26 FINE OAK	M	32770	133100	4
AJIT BEHERA	315152	09-JUL-71	10 KALINGA	M	32802	133100	3
UMASHANKAR	216852	17-JUL-67	26 FINE OAK	M	32770	133100	2
BHAGMAT	215152	23-MAR-71	55 FLORIDA	M	32802	216852	2
MEENAKSHI	334548	25-APR-79	73 BRIKLY	F	25125	315152	3
TASHAST	315485	12-AUG-79	17 BOSTON	M	28500	495823	4

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

--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 QUERY

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

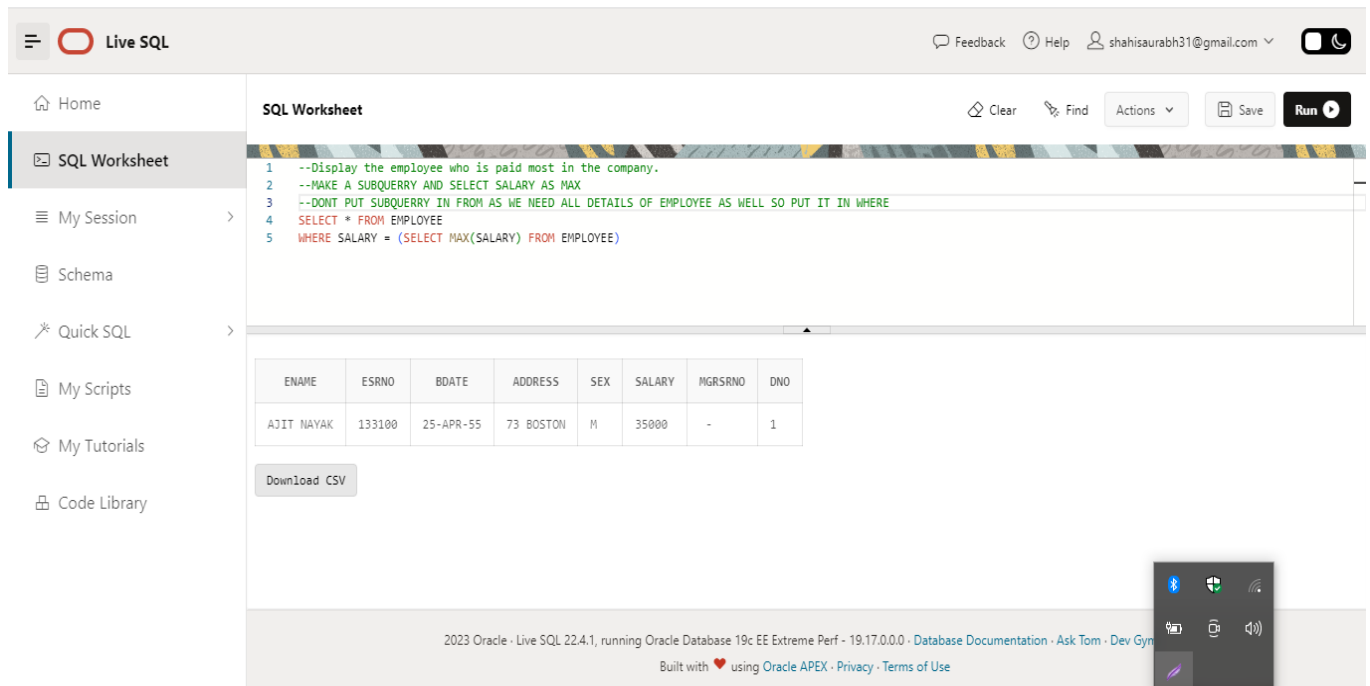
```
SELECT * FROM (SELECT EMPLOYEE.ENAME, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, DEPARTMENT.MGRSTARTD  
FROM EMPLOYEE  
LEFT JOIN DEPARTMENT  
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER)  
WHERE EXTRACT(DAY FROM MGRSTARTD) < 16
```

Insert Image —

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)
```

Insert Image —



The screenshot shows the Live SQL interface. On the left is a sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains the following SQL query:

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

Below the query, a table displays the result:

ENAME	ESRNO	BOATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO
AJIT NAYAK	133100	25-APR-55	73 BOSTON	M	35000	-	1

At the bottom of the interface, there is a footer with version information: '2023 Oracle · Live SQL 22.4.1, running Oracle Database 19c EE Extreme Perf · 19.17.0.0.0 · Database Documentation · Ask Tom · Dev Gym'. A 'Download CSV' button is also visible below the table.

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
```

Insert Image —

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

```

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

```

The resulting table is as follows:

ENAME	ADDRESS	DNO	DNAME
SATYA	26 FINE OAK	4	RESEARCH
JASHASI	17 BOSTON	4	RESEARCH
AJIT NAYAK	73 BOSTON	1	ADMIN
UMASHANKAR	26 FINE OAK	2	PROJECT
BHAGHAT	55 FLORIDA	2	PROJECT
DEBASHMITA	1 QUEENS LAND	2	PROJECT

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'

Insert Image –

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

```

1 --Display all the employees who are not in ACADEMIC department
2 --JOIN THE REQUIRED TABLE(EMPLOYEE AND DEPARTMENT) AND SELECT REQUIRED COLUMNS. USE WHERE QUERRY AND NOT EQUAL TO ACADEMIC
3 SELECT EMPLOYEE.ENAME, EMPLOYEE.ESRNO, EMPLOYEE.BDATE, EMPLOYEE.ADDRESS, EMPLOYEE.SEX, EMPLOYEE.SALARY, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, DEPARTMENT.DNAME
4 FROM EMPLOYEE
5 LEFT JOIN DEPARTMENT
6 ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER
7 WHERE DNAME <> 'ACADEMIC'

```

The resulting table is as follows:

ENAME	ESRNO	BDATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO	DNAME
AJIT NAYAK	133100	25-APR-55	73 BOSTON	M	35000	-	1	ADMIN
SATYA	495823	17-JUL-66	26 FINE OAK	M	32770	133100	4	RESEARCH
UMASHANKAR	216852	17-JUL-67	26 FINE OAK	M	32770	133100	2	PROJECT
BHAGHAT	215152	23-MAR-71	55 FLORIDA	M	32802	216852	2	PROJECT
JASHASI	215485	12-AUG-79	17 BOSTON	M	20500	495823	4	RESEARCH
DEBASHMITA	295485	16-APR-70	1 QUEENS LAND	F	20500	216852	2	PROJECT

C) Display SATYA'S 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

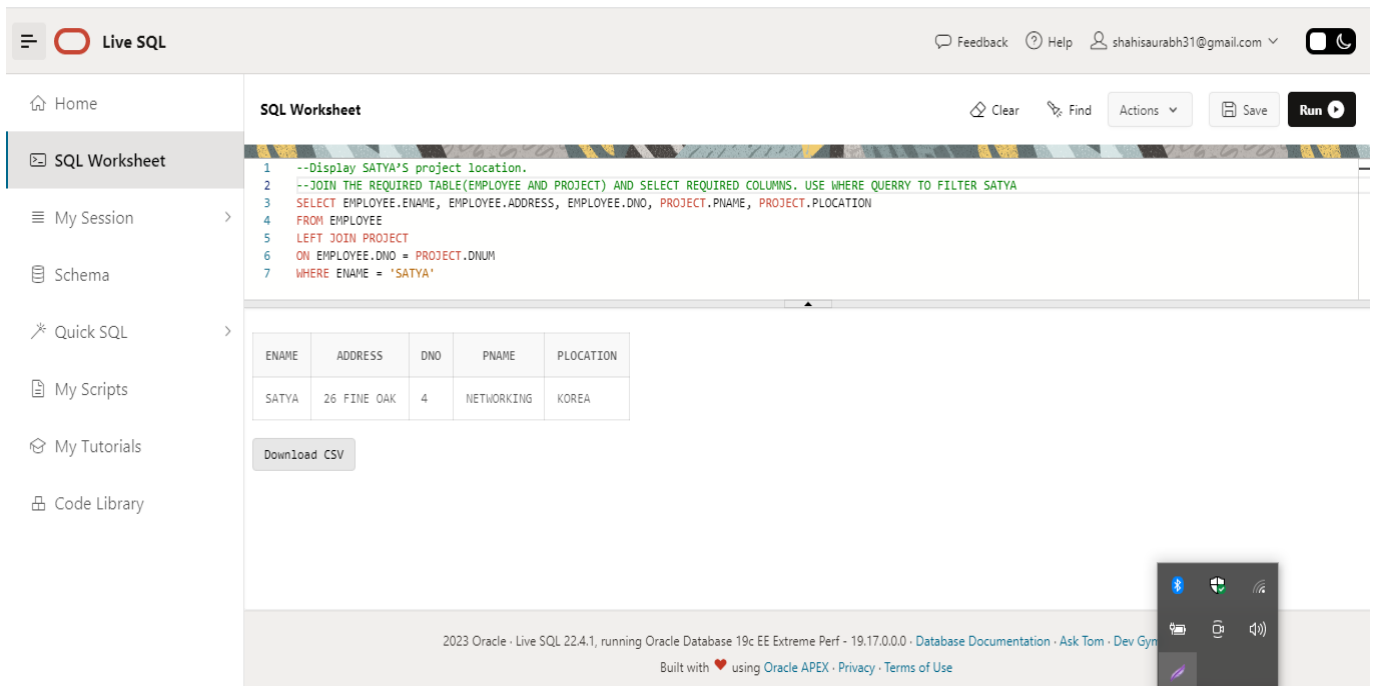
FROM EMPLOYEE

LEFT JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM

WHERE ENAME = 'SATYA'

Insert Image –



The screenshot shows the Live SQL interface. The top bar includes the 'Live SQL' logo, a user profile, and navigation links. The left sidebar contains a menu with 'Home', 'SQL Worksheet' (selected), 'My Session', 'Schema', 'Quick SQL', 'My Scripts', 'My Tutorials', and 'Code Library'. The main area is titled 'SQL Worksheet' and contains a query editor with the following SQL code:

```
1 --Display SATYA'S project location.
2 --JOIN THE REQUIRED TABLE(EMPLOYEE AND PROJECT) AND SELECT REQUIRED COLUMNS. USE WHERE QUERRY TO FILTER SATYA
3 SELECT EMPLOYEE.ENAME, EMPLOYEE.ADDRESS, EMPLOYEE.DNO, PROJECT.PNAME, PROJECT.PLOCATION
4 FROM EMPLOYEE
5 LEFT JOIN PROJECT
6 ON EMPLOYEE.DNO = PROJECT.DNUM
7 WHERE ENAME = 'SATYA'
```

Below the query editor, the results are displayed in a table:

ENAME	ADDRESS	DNO	PNAME	PLOCATION
SATYA	26 FINE OAK	4	NETWORKING	KOREA

A 'Download CSV' button is located below the table. The bottom of the interface shows the Oracle version and build information.

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

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

--MAKE A SUBQUERY OF JOINED TABLE(EMPLOYEE AND WORKS_ON) AND SELECT REQUIRED COLUMNS. FILTER SUBQUERY 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

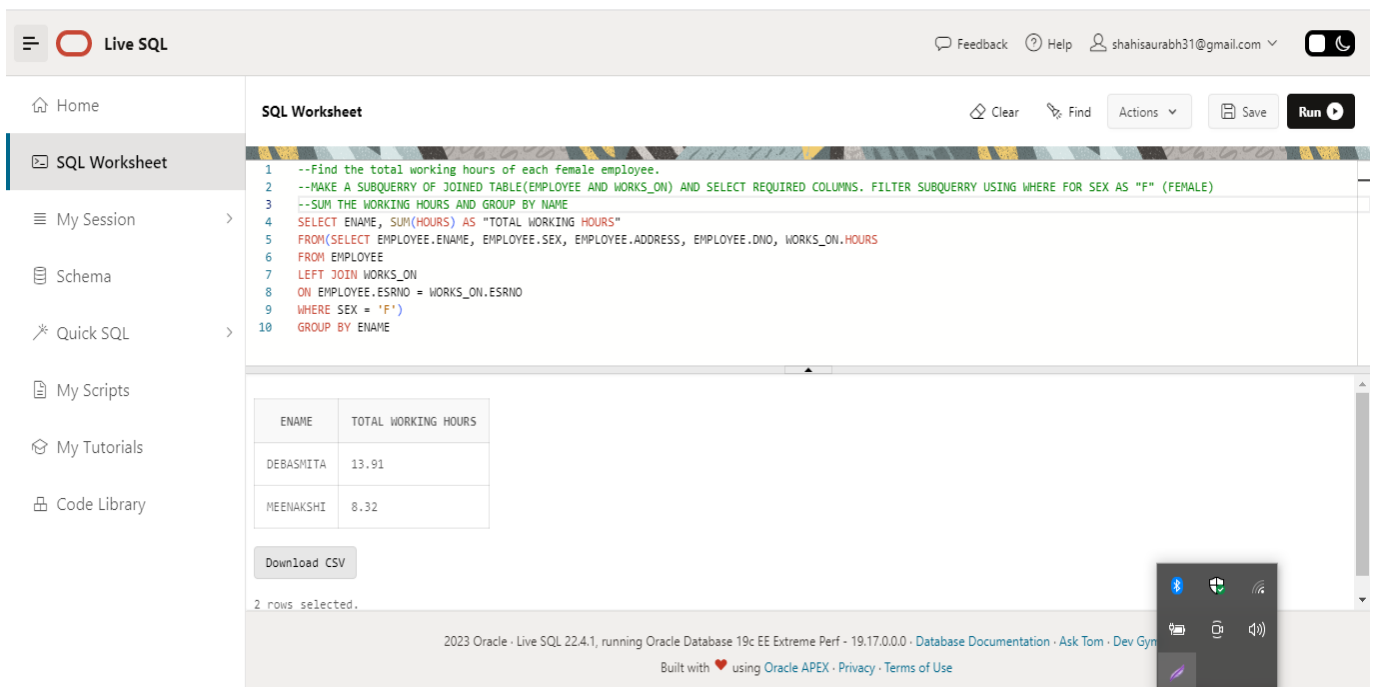
LEFT JOIN WORKS_ON

ON EMPLOYEE.ESRNO = WORKS_ON.ESRNO

WHERE SEX = 'F')

GROUP BY ENAME
```

Insert Image —



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

```
1 --Find the total working hours of each female employee.
2 --MAKE A SUBQUERY OF JOINED TABLE(EMPLOYEE AND WORKS_ON) AND SELECT REQUIRED COLUMNS. FILTER SUBQUERY USING WHERE FOR SEX AS "F" (FEMALE)
3 --SUM THE WORKING HOURS AND GROUP BY NAME
4 SELECT ENAME, SUM(HOURS) AS "TOTAL WORKING HOURS"
5 FROM(SELECT EMPLOYEE.ENAME, EMPLOYEE.SEX, EMPLOYEE.ADDRESS, EMPLOYEE.DNO, WORKS_ON.HOURS
6 FROM EMPLOYEE
7 LEFT JOIN WORKS_ON
8 ON EMPLOYEE.ESRNO = WORKS_ON.ESRNO
9 WHERE SEX = 'F')
10 GROUP BY ENAME
```

The results are displayed in a table:

ENAME	TOTAL WORKING HOURS
DEBASHITA	13.91
MEENAKSHI	8.32

2 rows selected.

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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

Insert Image -

The screenshot shows the Live SQL interface. The top bar includes the 'Live SQL' logo, user information (shahisaurabh31@gmail.com), and navigation links (Feedback, Help). The left sidebar contains a menu with 'Home', 'SQL Worksheet' (selected), 'My Session', 'Schema', 'Quick SQL', 'My Scripts', 'My Tutorials', and 'Code Library'. The main area is titled 'SQL Worksheet' and contains a query editor with the following SQL code:

```
1 --Display the details of the people whose projects are located at SOUTH AFRICA.
2 --JOIN THE REQUIRED TABLE(EMPLOYEE AND PROJECT) AND SELECT REQUIRED COLUMNS.
3 SELECT EMPLOYEE.ENAME, EMPLOYEE.ESRNO, EMPLOYEE.BDATE, EMPLOYEE.ADDRESS, EMPLOYEE.SEX, EMPLOYEE.SALARY, EMPLOYEE.MGRSRNO, EMPLOYEE.DNO, PROJECT.PLOCATION
4 FROM EMPLOYEE
5 LEFT JOIN PROJECT
6 ON EMPLOYEE.DNO = PROJECT.DNUM
7 WHERE PLOCATION = 'SOUTH AFRICA'
```

Below the query editor, the results are displayed in a table with 9 columns: ENAME, ESRNO, BDATE, ADDRESS, SEX, SALARY, MGRSRNO, DNO, and PLOCATION. The table contains 3 rows of data:

ENAME	ESRNO	BDATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO	PLOCATION
AJIT BEHERA	315152	09-JUL-71	10 KALINGA	M	32802	133100	3	SOUTH AFRICA
MEENAKSHI	334548	25-APR-79	73 BRIKLY	F	25125	315152	3	SOUTH AFRICA
NIHAR NAYAK	334524	17-DEC-66	73 DALLAS	M	29105	315152	3	SOUTH AFRICA

Below the table, there is a 'Download CSV' button and a status message '3 rows selected.'. The footer of the interface shows the version information: '2023 Oracle · Live SQL 22.4.1, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 · Database Documentation · Ask Tom · Dev Gym'. It also mentions 'Built with ❤️ using Oracle APEX · Privacy · Terms of Use'.