

Answer Sheet - SQL

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Major Question 1

A) List the salary of all the employees.

```
select salary from employee
```

Insert Image-

The screenshot shows the 'Live SQL' web application interface. On the left is a sidebar with navigation links: 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 query 'select salary from employee'. Below the editor, a table of results is displayed with the header 'SALARY' and 10 rows of values: 35000, 32770, 32802, 32770, 32802, 25125, 20500, 29105, and 20500. The top of the interface includes a header bar with 'Live SQL', 'Feedback', 'Help', and a user profile 'premikavittal997@gmail.com'. The top right of the worksheet area has buttons for 'Clear', 'Find', 'Actions', and 'Save'.

B) 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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Live SQL

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SQL Worksheet

WHERE ENAME IN (A),

SELECT *FROM employee

WHERE ENAME LIKE '%A%';

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
BHAGWAT	215152	23-MAR-71	55 FLORIDA	M	32802	216852	2
MEENAKSHI	334548	25-APR-79	73 BRIKLY	F	25125	315152	3
JASWASI	215485	12-AUG-79	17 BOSTON	M	20500	495823	4
NIHAR NAYAK	334524	17-DEC-66	73 DALLAS	M	29105	315152	3
DEBASMITA	295485	16-APR-70	1 QUEENS LAND	F	20500	216852	2

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

```
SELECT ENAME, MGRSTARTD,Employee.MGRSRNO
FROM Employee
INNER JOIN Department
ON Employee.MGRSRNO = Department.MGRSRNO
```

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1 SELECT ENAME, MGRSTARTD,Employee.MGRSRNO

2 FROM Employee

3 INNER JOIN Department

4 ON Employee.MGRSRNO = Department.MGRSRNO

5 Where EXTRACT(DAY FROM MGRSTARTD) < 15

ENAME	MGRSTARTD	MGRSRNO
SATYA	06-JAN-88	133100
AJIT BEHERA	06-JAN-88	133100
UMASHANKAR	06-JAN-88	133100

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3 rows selected.

D)Display the name of all female employees.

```
SELECT ENAME,SEX
FROM EMPLOYEE
WHERE SEX='F';
```

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16 SELECT ENAME,SEX

17 FROM EMPLOYEE

18 WHERE SEX='F';

ENAME	SEX
MEENAKSHI	F
DEBASMITA	F

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2 rows selected.

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

```
SELECT ENAME,SALARY AS MOST_PAID FROM EMPLOYEE  
WHERE SALARY = ( SELECT MAX (SALARY) FROM EMPLOYEE);
```

Insert Image –

The screenshot shows the 'Live SQL' web application interface. On the left is a sidebar with navigation links: 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 two lines of SQL code:
1 SELECT ENAME,SALARY AS MOST_PAID FROM EMPLOYEE
2 WHERE SALARY = (SELECT MAX (SALARY) FROM EMPLOYEE);
Below the code editor, the results are displayed in a table with two columns: ENAME and MOST_PAID. The table contains one row with the values 'AJIT NAYAK' and '35000'. A 'Download CSV' button is located below the table. The top of the interface includes a header with 'Live SQL', user information, and utility buttons like 'Clear', 'Find', 'Actions', 'Save', and 'Run'.

ENAME	MOST_PAID
AJIT NAYAK	35000

Major Question 2

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

```

SELECT ENAME, ADDRESS, Department.DNAME, Department.DNUMBER
FROM Employee
INNER JOIN Department
ON Employee.MGRSRNO = Department.MGRSRNO

```

Insert Image –

The screenshot shows the Live SQL web application. The top navigation bar includes 'Home', 'SQL Worksheet', 'My Session', 'Schema', 'Quick SQL', 'My Scripts', 'My Tutorials', and 'Code Library'. The 'SQL Worksheet' tab is active, displaying the following SQL query:

```

1 SELECT ENAME, ADDRESS, Department.DNAME, Department.DNUMBER
2 FROM Employee
3 INNER JOIN Department
4 ON Employee.MGRSRNO = Department.MGRSRNO
5

```

Below the query editor, the results are displayed in a table with the following columns: ENAME, ADDRESS, DNAME, and DNUMBER.

ENAME	ADDRESS	DNAME	DNUMBER
SATYA	26 FINE OAK	ADMIN	1
AJIT BEHERA	10 KALINGA	ADMIN	1
UMASHANKAR	26 FINE OAK	ADMIN	1
BHAGWAT	55 FLORIDA	PROJECT	2
MEENAKSHI	73 BRIKLY	ACADEMIC	3
JASWASI	17 BOSTON	RESEARCH	4
NIHAR NAYAK	73 DALLAS	ACADEMIC	3
DEBASMITA	1 QUEENS LAND	PROJECT	2

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

```

SELECT ENAME, Department.DNAME
FROM Employee
inner JOIN Department
ON Employee.MGRSRNO = Department.MGRSRNO
where DNAME != 'ACADEMIC'

```

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Live SQL

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SELECT ENAME,Department.DNAME

FROM Employee

inner JOIN Department

ON Employee.MGRSRNO = Department.MGRSRNO

where DNAME !='ACADEMIC'

ENAME	DNAME
SATYA	ADMIN
AJIT BEHERA	ADMIN
UMASHANKAR	ADMIN
BHAGWAT	PROJECT
JASWASI	RESEARCH
DEBASMITA	PROJECT

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C) Display SATYAS’ project location.

SELECT ENAME,Project.PLOCATION

FROM Employee

INNER JOIN Project

ON Employee.DNO = Project.DNUM

where ENAME='SATYA'

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Live SQL

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SELECT ENAME,Project.PLOCATION

FROM Employee

INNER JOIN Project

ON Employee.DNO = Project.DNUM

where ENAME='SATYA'

ENAME	PLOCATION
SATYA	KOREA

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

```
SELECT ENAME , SEX, SUM(WORKS_on. HOURS)
FROM EMPLOYEE
INNER JOIN WORKS_on
ON EMPLOYEE.ESRNO = WORKS_on.ESRNO
WHERE SEX='F'
GROUP BY ENAME, SEX
```

Insert Image -

The screenshot shows the Live SQL web application interface. The top navigation bar includes a hamburger menu, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (premikavittal997@gmail.com). The left sidebar contains navigation links: 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 editor with line numbers 20 to 30. The query is:
24 SELECT ENAME , SEX, SUM(WORKS_on. HOURS)
25 FROM EMPLOYEE
26 INNER JOIN WORKS_on
27 ON EMPLOYEE.ESRNO = WORKS_on.ESRNO
28 WHERE SEX='F'
29 GROUP BY ENAME, SEX
30
Below the editor, the results are displayed in a table with columns ENAME, SEX, and SUM(WORKS_ON.HOURS). The table contains two rows: DEBASMITA (F, 13.91) and MEENAKSHI (F, 8.32). Below the table is a 'Download CSV' button and the text '2 rows selected.'.

ENAME	SEX	SUM(WORKS_ON.HOURS)
DEBASMITA	F	13.91
MEENAKSHI	F	8.32

Download CSV

2 rows selected.

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

```
SELECT * FROM EMPLOYEE
INNER JOIN PROJECT
ON EMPLOYEE.DNO = PROJECT.DNUM
WHERE PLOCATION ='SOUTH AFRICA'
```

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37SELECT *FROM EMPLOYEE

38INNER JOIN PROJECT

39ON EMPLOYEE.DNO = PROJECT.DNUM

40WHERE PLOCATION ='SOUTH AFRICA'

ENAME	ESRNO	BDATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO	PNAME	PNUMBER	PLOCATION	DNUM
AJIT BEHERA	315152	09-JUL-71	10 KALINGA	M	32802	133100	3	BIO INFORMATICS	19	SOUTH AFRICA	3
MEENAKSHI	334548	25-APR-79	73 BRIKLY	F	25125	315152	3	BIO INFORMATICS	19	SOUTH AFRICA	3
NIHAR NAYAK	334524	17-DEC-66	73 DALLAS	M	29105	315152	3	BIO INFORMATICS	19	SOUTH AFRICA	3

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