

Answer Sheet - SQL

Name : Prajapati Parikshit Virabhai

Phone No. : 9998428706

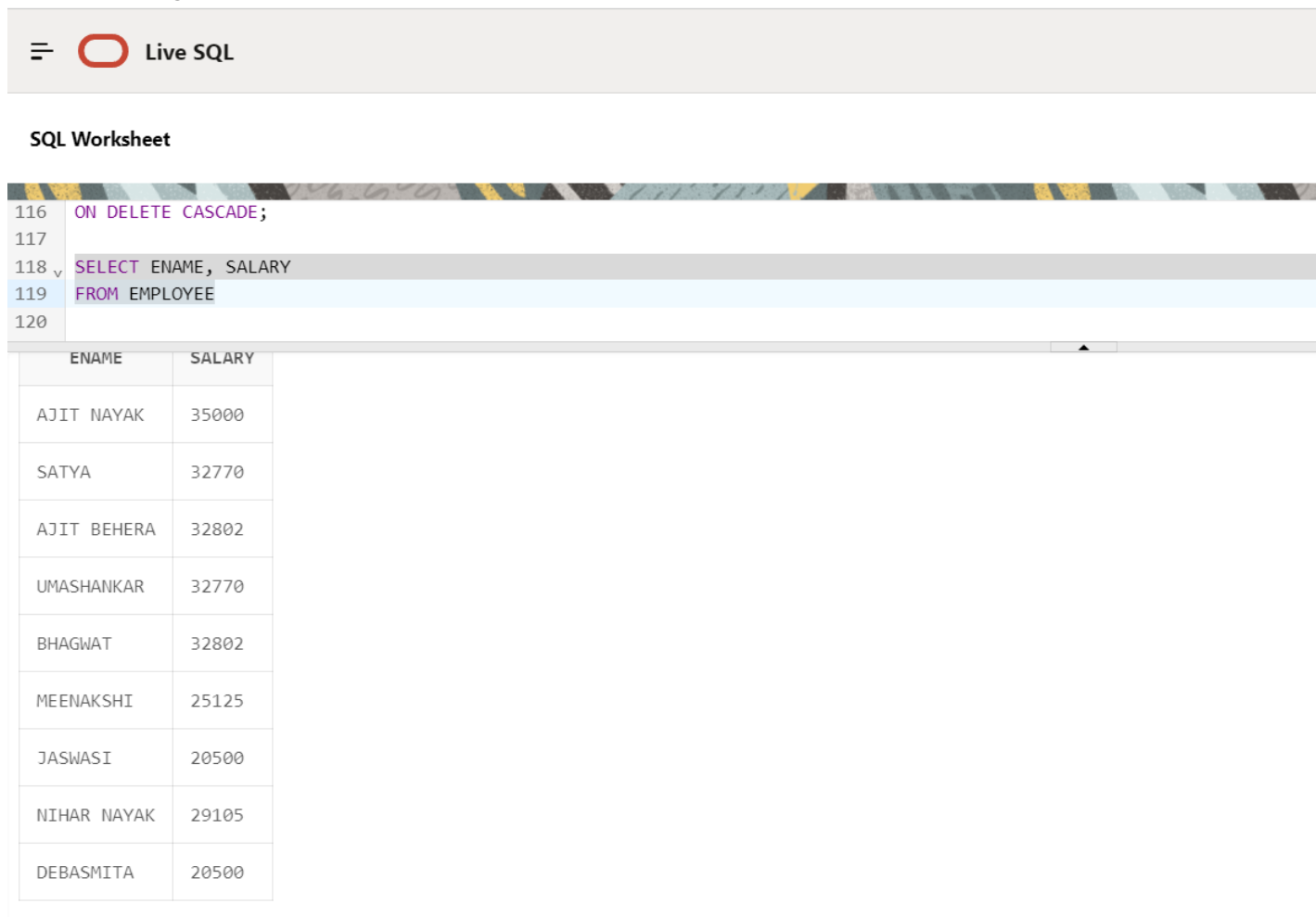
Email : parikshitprajapati2001@gmail.com

Major Question 1

A) List the salary of all the employees.

```
SELECT ENAME, SALARY  
FROM EMPLOYEE
```

Insert Image-



The screenshot shows a web-based SQL editor interface. At the top, there is a header with a menu icon, a red circular logo, and the text "Live SQL". Below this is a section titled "SQL Worksheet". The main area contains a code editor with the following SQL query:

```
116 ON DELETE CASCADE;  
117  
118 v SELECT ENAME, SALARY  
119 FROM EMPLOYEE  
120
```

Below the code editor, the results of the query are displayed in a table with two columns: "ENAME" and "SALARY". The table contains 10 rows of data:

ENAME	SALARY
AJIT NAYAK	35000
SATYA	32770
AJIT BEHERA	32802
UMASHANKAR	32770
BHAGWAT	32802
MEENAKSHI	25125
JASWASI	20500
NIHAR NAYAK	29105
DEBASMITA	20500

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

```
SELECT ENAME  
FROM EMPLOYEE  
WHERE REGEXP_LIKE(ENAME, 'A', 'i');
```

Insert Image –

≡  Live SQL

SQL Worksheet

```
119 FROM EMPLOYEE  
120  
121 SELECT ENAME  
122 FROM EMPLOYEE  
123 WHERE REGEXP_LIKE(ENAME, 'A', 'i');  
124
```

ENAME
AJIT NAYAK
SATYA
AJIT BEHERA
UMASHANKAR
BHAGWAT
MEENAKSHI
JASWASI
NIHAR NAYAK
DEBASMITA

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

```
SELECT *  
FROM EMPLOYEE  
WHERE EXTRACT(DAY FROM BDATE) <= 15;
```

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  Live SQL

SQL Worksheet

```
123 WHERE REGEXP_LIKE(ENAME, 'A', 'I'),  
124  
125 v SELECT *  
126 FROM EMPLOYEE  
127 WHERE EXTRACT(DAY FROM BDATE) <= 15;  
128
```

ENAME	ESRNO	BDATE	ADDRESS	SEX	SALARY	MGRSRNO	DNO
AJIT BEHERA	315152	09-JUL-71	10 KALINGA	M	32802	133100	3
JASWASI	215485	12-AUG-79	17 BOSTON	M	20500	495823	4

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2 rows selected.

D) Display the name of all female employees.

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

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SQL Worksheet

```
128  
129 v SELECT ENAME  
130 FROM EMPLOYEE  
131 WHERE SEX = 'F';  
132
```

ENAME
MEENAKSHI
DEBASMITA

Download CSV

2 rows selected.

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

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

Insert Image –

  Live SQL

SQL Worksheet

```
131 WHERE SEX = 'F';
132
133 v SELECT ENAME, SALARY
134 FROM EMPLOYEE
135 WHERE SALARY = (SELECT MAX(SALARY) FROM EMPLOYEE);
```

ENAME	SALARY
AJIT NAYAK	35000

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Major Question 2

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

```
SELECT E.ENAME AS "Employee Name",  
       E.ADDRESS AS "Address",  
       E.DNO AS "Department Number",  
       D.DNAME AS "Department Name"  
FROM EMPLOYEE E  
JOIN DEPARTMENT D ON E.DNO = D.DNUMBER;
```

Insert Image –

SQL Worksheet

```
137 SELECT E.ENAME AS "Employee Name",
138        E.ADDRESS AS "Address",
139        E.DNO AS "Department Number",
140        D.DNAME AS "Department Name"
141 FROM EMPLOYEE E
```

Employee Name	Address	Department Number	Department Name
AJIT NAYAK	73 BOSTON	1	ADMIN
SATYA	26 FINE OAK	4	RESEARCH
AJIT BEHERA	10 KALINGA	3	ACADEMIC
UMASHANKAR	26 FINE OAK	2	PROJECT
BHAGWAT	55 FLORIDA	2	PROJECT
MEENAKSHI	73 BRIKLY	3	ACADEMIC
JASWASI	17 BOSTON	4	RESEARCH
NIHAR NAYAK	73 DALLAS	3	ACADEMIC
DEBASMITA	1 QUEENS LAND	2	PROJECT

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

```
SELECT E.ENAME, E.ESRNO
FROM EMPLOYEE E
LEFT JOIN DEPARTMENT D ON E.DNO = D.DNUMBER
WHERE D.DNAME IS NULL OR D.DNAME != 'ACADEMIC';
```

Insert Image –



SQL Worksheet

```
143
144 v SELECT E.ENAME, E.ESRNO
145 FROM EMPLOYEE E
146 LEFT JOIN DEPARTMENT D ON E.DNO = D.DNUMBER
147 WHERE D.DNAME IS NULL OR D.DNAME != 'ACADEMIC';
```

ENAME	ESRNO
SATYA	495823
JASWASI	215485
AJIT NAYAK	133100
UMASHANKAR	216852
BHAGWAT	215152
DEBASMITA	295485

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6 rows selected.

C) Display SATYAS' project location.

```
SELECT P.PLOCATION
FROM EMPLOYEE E
JOIN PROJECT P ON E.DNO = P.DNUM
WHERE E.ENAME = 'SATYA';
```

Insert Image -

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6 v
7
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12
13

```
SELECT P.PLOCATION
FROM EMPLOYEE E
JOIN PROJECT P ON E.DNO = P.DNUM
WHERE E.ENAME = 'SATYA';
```

PLOCATION
KOREA

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

```
SELECT E.ENAME, SUM(W.HOURS) AS TOTAL_HOURS
FROM EMPLOYEE E
JOIN WORKS_ON W ON E.ESRNO = W.ESRNO
WHERE E.SEX = 'F'
GROUP BY E.ENAME
ORDER BY E.ENAME;
```

Insert Image -



Live SQL

SQL Worksheet

```
154
155 ✓ SELECT E.ENAME, SUM(W.HOURS) AS TOTAL_HOURS
156 FROM EMPLOYEE E
157 JOIN WORKS_ON W ON E.ESRNO = W.ESRNO
158 WHERE E.SEX = 'F'
```

ENAME	TOTAL_HOURS
DEBASMITA	13.91
MEENAKSHI	8.32



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2 rows selected.


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


```
SELECT E.ENAME, E.ESRNO, P.PNAME, P.PNUMBER, P.PLOCATION
FROM EMPLOYEE E
JOIN PROJECT P ON E.DNO = P.DNUM
WHERE P.PLOCATION = 'SOUTH AFRICA';
```


Insert Image -


  Live SQL


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 SQL Worksheet


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```
SELECT E.ENAME, E.ESRNO, P.PNAME, P.PNUMBER, P.PLOCATION
FROM EMPLOYEE E
JOIN PROJECT P ON E.DNO = P.DNUM
WHERE P.PLOCATION = 'SOUTH AFRICA';
```

ENAME	ESRNO	PNAME	PNUMBER	PLOCATION
AJIT BEHERA	315152	BIO INFORMATICS	19	SOUTH AFRICA
MEENAKSHI	334548	BIO INFORMATICS	19	SOUTH AFRICA
NIHAR NAYAK	334524	BIO INFORMATICS	19	SOUTH AFRICA

SQL Editor