Answer Sheet - SQL

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Major Question 1

A) List the salary of all the employees.

```
SELECT ENAME, SALARY FROM EMPLOYEE
GROUP BY ENAME, SALARY
ORDER BY SALARY
```

```
SELECT ENAME, SALARY FROM EMPLOYEE
GROUP BY ENAME, SALARY
ORDER BY SALARY
```

Insert Image-

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

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

SELECT ENAME FROM EMPLOYEE

WHERE (ENAME) LIKE '%A%'

```
SELECT ENAME FROM EMPLOYEE
WHERE (ENAME) LIKE '%A%'
```

Insert Image-

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

(SELECT EMPLOYEE.ENAME, EXTRACT(DAY FROM MGRSTARTD) AS "HIRED DATE"

FROM EMPLOYEE

JOIN DEPARTMENT

ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER)

WHERE "HIRED DATE" < 16

```
SELECT * FROM
(SELECT EMPLOYEE.ENAME, EXTRACT(DAY FROM MGRSTARTD) AS "HIRED DATE"
FROM EMPLOYEE
JOIN DEPARTMENT
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER)
WHERE "HIRED DATE" < 16
```

Insert Image-

ENAME	HIRED DATE
AJIT NAYAK	6

D) Display the name of all female employees.

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

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

Insert Image-

ENAME	SEX
MEENAKSHI	F
DEBASMITA	F

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

```
SELECT ENAME, SALARY FROM
EMPLOYEE

WHERE SALARY IN

(SELECT MAX(SALARY) FROM
EMPLOYEE)
```

```
SELECT ENAME, SALARY FROM EMPLOYEE
WHERE SALARY
IN (SELECT MAX(SALARY) FROM EMPLOYEE)
```

Insert Image-

ENAME	SALARY
AJIT NAYAK	35000

Major Question 2

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

```
SELECT EMPLOYEE.ENAME, EMPLOYEE.ADDRESS,
DEPARTMENT.DNUMBER, DEPARTMENT.DNAME

FROM EMPLOYEE

JOIN DEPARTMENT

ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER

ORDER BY DNUMBER
```

```
SELECT EMPLOYEE.ENAME, EMPLOYEE.ADDRESS, DEPARTMENT.DNUMBER, DEPARTMENT.DNAME
FROM EMPLOYEE
JOIN DEPARTMENT
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER
ORDER BY DNUMBER
```

Insert Image-

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

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

```
SELECT EMPLOYEE.ENAME, DEPARTMENT.DNAME
FROM EMPLOYEE
JOIN DEPARTMENT
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER
WHERE DNAME!='ACADEMIC'
ORDER BY ENAME
```

```
SELECT EMPLOYEE.ENAME, DEPARTMENT.DNAME
FROM EMPLOYEE
JOIN DEPARTMENT
ON EMPLOYEE.DNO = DEPARTMENT.DNUMBER
WHERE DNAME!='ACADEMIC'
ORDER BY ENAME
```

Insert Image-

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

C) Display SATYAS' project location.

```
SELECT EMPLOYEE.ENAME, PROJECT.PLOCATION

FROM EMPLOYEE

JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM

WHERE ENAME = 'SATYA'
```

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

Insert Image-

ENAME	PLOCATION
SATYA	KOREA

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

```
SELECT * FROM

(SELECT EMPLOYEE.ENAME, EMPLOYEE.SEX, SUM(WORKS_ON.HOURS)
AS "TOTAL HOURS"

FROM EMPLOYEE

JOIN WORKS_ON

ON EMPLOYEE.ESRNO = WORKS_ON.ESRNO

GROUP BY EMPLOYEE.ENAME, EMPLOYEE.SEX)

WHERE SEX = 'F'
```

```
SELECT * FROM
(SELECT EMPLOYEE.ENAME, EMPLOYEE.SEX, SUM(WORKS_ON.HOURS) AS "TOTAL HOURS"
FROM EMPLOYEE
JOIN WORKS_ON
ON EMPLOYEE.ESRNO = WORKS_ON.ESRNO
GROUP BY EMPLOYEE.ENAME, EMPLOYEE.SEX)
WHERE SEX = 'F'
```

Insert Image-

ENAME	SEX	TOTAL HOURS
DEBASMITA	F	13.91
MEENAKSHI	F	8.32

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

```
SELECT EMPLOYEE.ENAME,EMPLOYEE.BDATE, EMPLOYEE.ADDRESS,
EMPLOYEE.SEX, PROJECT.PLOCATION FROM EMPLOYEE

JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM

WHERE PLOCATION = 'SOUTH AFRICA'
```

```
SELECT EMPLOYEE.ENAME,EMPLOYEE.BDATE, EMPLOYEE.ADDRESS, EMPLOYEE.SEX, PROJECT.PLOCATION FROM EMPLOYEE

JOIN PROJECT

ON EMPLOYEE.DNO = PROJECT.DNUM

WHERE PLOCATION = 'SOUTH AFRICA'
```

Insert Image-

ENAME	BDATE	ADDRESS	SEX	PLOCATION
AJIT BEHERA	09-JUL-71	10 KALINGA	M	SOUTH AFRICA
MEENAKSHI	25-APR-79	73 BRIKLY	F	SOUTH AFRICA
NIHAR NAYAK	17-DEC-66	73 DALLAS	M	SOUTH AFRICA