Answer Sheet - SQL

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Major Question 1

A) List the salary of all the employees.

> *Select ENAME, SALARY from Employee*

Insert Image-

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

MEENAKSHI	25125
JASWASI	20500
NIHAR NAYAK	29105
DEBASMITA	20500

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9 rows selected.

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

Insert Image –

ENAME
AJIT NAYAK
SATYA
AJIT BEHERA
UMASHANKAR
BHAGWAT
MEENAKSHI
JASWASI

JASWASI
NIHAR NAYAK
DEBASMITA

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9 rows selected.

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

Where EXTRACT(DAY FROM MGRSTARTD) < 15
```

Insert Image –

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

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D)Display the name of all female employees.

```
--D) Display the name of all female employees.
select ENAME from Employee
where sex='F'
```

Insert Image –

```
1   --D)    Display the name of all female employees.
2 v select ENAME from Employee
3   where sex='F'
4
```

ENAME
MEENAKSHI
DEBASMITA

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2 rows selected.

SQL Worksheet

```
1   --D)    Display the name of all female employees.
2 v select ENAME as Female_Employees from Employee
3   where sex='F'
4   |
```

FEMALE_EMPLOYEES
MEENAKSHI
DEBASMITA

Download CSV

2 rows selected.

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

```
--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 –

```
1   --E)    Display the employee who is paid most in the company.
2 v select ENAME, salary as Maximum_Salary from Employee
3   where salary=(select  Max(salary) from Employee)
4
```

ENAME	MAXIMUM_SALARY
AJIT NAYAK	35000

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Major Question 2

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

```
SELECT ENAME, ADDRESS,Department.DNAME,Department.DNUMBER

FROM Employee

LEFT JOIN Department

ON Employee.MGRSRNO = Department.MGRSRNOLEFT JOIN Department

ON Employee.MGRSRNO = Department.MGRSRNO
```

Insert Image –

SQL Worksheet

```sql
1 v SELECT ENAME, ADDRESS,Department.DNAME,Department.DNUMBER
2   FROM Employee
3   LEFT JOIN Department
4   ON Employee.MGRSRNO = Department.MGRSRNO
5
```

ENAME	ADDRESS	DNAME	DNUMBER
JASWASI	17 BOSTON	RESEARCH	4
SATYA	26 FINE OAK	ADMIN	1
AJIT BEHERA	10 KALINGA	ADMIN	1
UMASHANKAR	26 FINE OAK	ADMIN	1

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

MEENAKSHI	73 BRIKLY	ACADEMIC	3
NIHAR NAYAK	73 DALLAS	ACADEMIC	3
AJIT NAYAK	73 BOSTON	-	-

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9 rows selected.

NOTE:- I have applied "left join" as I want the detail of all "employees" whether they have "dno and dname" or not ;

If we want the name of only those "employees" whose "dno and dname" is mentioned we can use inner join.

SQL Worksheet

```
1   SELECT ENAME, ADDRESS,Department.DNAME,Department.DNUMBER
2   FROM Employee
3   inner JOIN Department
4   ON Employee.MGRSRNO = Department.MGRSRNO
5
6
```

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

SQL Worksheet

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

Download CSV

8 rows selected.

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'

Insert Image –

SQL Worksheet

```
1 v  SELECT ENAME, Department.DNAME
2    FROM Employee
3    inner JOIN Department
4    ON Employee.MGRSRNO = Department.MGRSRNO
5    where DNAME !='ACADEMIC'
```

ENAME	DNAME
SATYA	ADMIN
AJIT BEHERA	ADMIN
UMASHANKAR	ADMIN
BHAGWAT	PROJECT

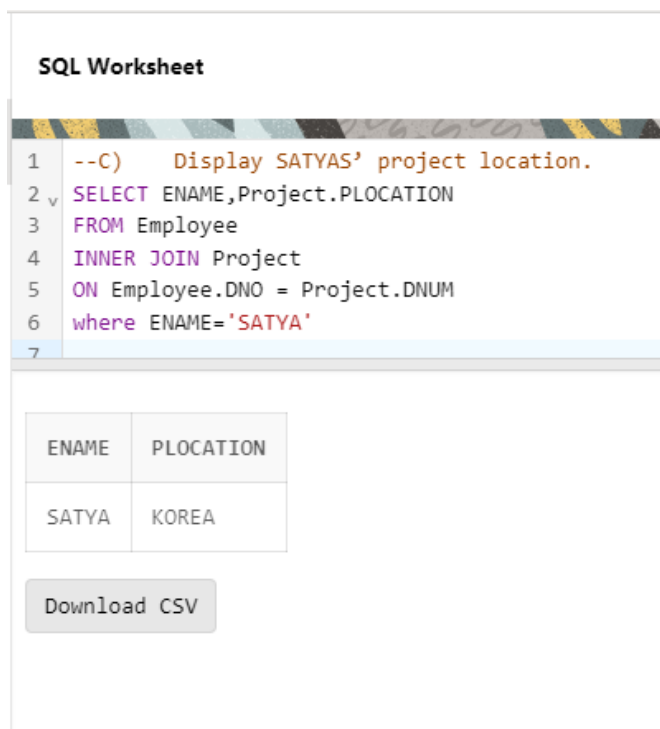|	
BHAGWAT	PROJECT
JASWASI	RESEARCH
DEBASMITA	PROJECT

Download CSV

6 rows selected.

C) Display SATYAS' project location.

```
SELECT ENAME,Project.PLOCATION
FROM Employee
INNER JOIN Project
ON Employee.DNO = Project.DNUM
where ENAME='SATYA'
```

Insert Image –

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 –

SQL Worksheet

```
1 ∨  select ENAME, Sex, SUM(Works_on.HOURS)
2    from Employee
3    INNER JOIN Works_on
4    ON Employee.ESRNO = Works_on.ESRNO
5    where sex='F'
6    GROUP BY ENAME, SEX
7
```

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

Download CSV

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'
```

Insert Image –

SQL Worksheet   ◇ Clear   ✎ Find   Actions ∨   💾 Save   Run ▶

```
1   -- E)  Display the details of the people whose projects are located at SOUTH AFRICA.
2 ∨ SELECT *
3   FROM Employee
4   INNER JOIN Project
5   ON Employee.DNO = Project.DNUM
6   WHERE 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