QUESTION NO.	OBJECTIVE & SOLUTIONS
3.	Write SQL Commands for questions 1 to 5 based on the table TEACHER

NO	NAME	AGE	DEPARTMENT	DOJ	SALARY	SEX
1	Mohitesh K	34	Computer	01/10/97	12000	M
2	Jaya Priya	31	History	24/03/98	18000	F
3	Prachi S	32	Mathematics	12/12/98	30000	M
4	Mishra A	35	History	07/01/99	40000	F
5	Maurya T	24	Mathematics	08/05/97	25000	M

1) To show all information about the teachers whose salary is greater than 20000.

2) To list all female teachers who are from History department.

3) To list all names of all teachers beginning with 'M' sorted by Name in descending order.

4) To count number of teachers with age less than 32.

5) To display the maximum salary .

SOURCE CODE:

1) Select * from TEACHER where SALARY>20000;
2) Select NAME from TEACHER where SEX='F';
3) Select NAME from TEACHER where NAME like 'M%' order by NAME desc;
4) Select Count(*) from TEACHER where AGE>32;
5) Select max(SALARY) from TEACHER;

OUTPUT:

1)

```
+------+----------+------+------------+------------+--------+------+
| NO   | NAME     | AGE  | DEPARTMENT | DOJ        | SALARY | SEX  |
+------+----------+------+------------+------------+--------+------+
|    3 | Prachi S |   32 | Mathematics | 0000-00-00 |  30000 | M    |
|    4 | Mishra A |   35 | History     | 0000-00-00 |  40000 | F    |
|    5 | Maurya T |   24 | Mathematics | 0000-00-00 |  40000 | F    |
+------+----------+------+------------+------------+--------+------+
3 rows in set (0.00 sec)
```

2)

```
+------------+
| NAME       |
+------------+
| Jaya Priya |
| Mishra A   |
| Maurya T   |
+------------+
3 rows in set (0.00 sec)
```

3)

```
+------------+
| NAME       |
+------------+
| Mohitesh K |
| Mishra A   |
| Maurya T   |
+------------+
3 rows in set (0.00 sec)
```

4)

```
+----------+
| Count(*) |
+----------+
|        2 |
+----------+
1 row in set (0.01 sec)
```

5)

```
+-------------+
| max(SALARY) |
+-------------+
|       40000 |
+-------------+
1 row in set (0.00 sec)
```

<table>
<tr><th>QUESTION NO.</th><th>OBJECTIVE & SOLUTIONS</th></tr>
<tr><td>4.</td><td>Write SQL Commands for questions 1 to 3 on the basis of table ADMIN and give the output for queries 4 and 5.

<table>
<tr><td>CODE</td><td>TNAME</td><td>SUBJECT</td></tr>
<tr><td>1001</td><td>Ravi Shankar</td><td>English</td></tr>
<tr><td>1009</td><td>Priya Rai</td><td>Physics</td></tr>
<tr><td>1203</td><td>Lisa Anand</td><td>English</td></tr>
<tr><td>1309</td><td>Anita Rai</td><td>Hindi</td></tr>
<tr><td>1400</td><td>George R</td><td>Hindi</td></tr>
</table>

1) To alter the table to add new column EXPERIENCE.

2) To update table ADMIN by giving all staff 10 yrs experience.

3) To display the records in the descending order of staff name .

4) To display the number of staff names beginning with letter ‘R’.

5) To display the number of teachers in each subject</td></tr>
<tr><td>SOURCE CODE:</td><td>1) Alter table ADMIN add EXPERIENCE int;
2) Update ADMIN set EXPERIENCE=10;
3) Select * from ADMIN order by TNAME;
4) Select count(TNAME) from ADMIN where TNAME like ‘R%’;
5) Select count(*), SUBJECT from ADMIN group by SUBJECT;</td></tr>
</table>

OUTPUT:

1)

```
mysql> Alter table ADMIN add EXPERIENCE int;
Query OK, 0 rows affected (0.13 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from ADMIN;
+------+-------------+---------+------------+
| CODE | TNAME       | SUBJECT | EXPERIENCE |
+------+-------------+---------+------------+
| 1001 | Ravi Shankar | English |       NULL |
| 1009 | Priya Rai    | Physics |       NULL |
| 1203 | Lisa Anand   | English |       NULL |
| 1309 | Anita Rai    | Hindi   |       NULL |
| 1400 | George R     | Hindi   |       NULL |
+------+-------------+---------+------------+
5 rows in set (0.00 sec)
```

2)

```
mysql> update ADMIN set EXPERIENCE=10;
Query OK, 5 rows affected (0.02 sec)
Rows matched: 5  Changed: 5  Warnings: 0

mysql> select * from ADMIN;
+------+-------------+---------+------------+
| CODE | TNAME       | SUBJECT | EXPERIENCE |
+------+-------------+---------+------------+
| 1001 | Ravi Shankar | English |         10 |
| 1009 | Priya Rai    | Physics |         10 |
| 1203 | Lisa Anand   | English |         10 |
| 1309 | Anita Rai    | Hindi   |         10 |
| 1400 | George R     | Hindi   |         10 |
+------+-------------+---------+------------+
5 rows in set (0.00 sec)
```

3)

```
mysql> Select * from ADMIN order by TNAME;
+------+-------------+---------+------------+
| CODE | TNAME       | SUBJECT | EXPERIENCE |
+------+-------------+---------+------------+
| 1309 | Anita Rai    | Hindi   |         10 |
| 1400 | George R     | Hindi   |         10 |
| 1203 | Lisa Anand   | English |         10 |
| 1009 | Priya Rai    | Physics |         10 |
| 1001 | Ravi Shankar | English |         10 |
+------+-------------+---------+------------+
5 rows in set (0.00 sec)
```

4)

```
+--------------+
| count(TNAME) |
+--------------+
|            1 |
+--------------+
1 row in set (0.01 sec)
```

5)

```
+----------+---------+
| count(*) | SUBJECT |
+----------+---------+
|        2 | English |
|        2 | Hindi   |
|        1 | Physics |
+----------+---------+
3 rows in set (0.00 sec)
```