SQL ASSIGNMENT

1)

```
mysql> create table Student(
    -> Roll_no int,
    -> Name varchar(40),
    -> Division varchar(40),
    -> Branch varchar(40),
    -> city varchar(40),
    -> marks int);
Query OK, 0 rows affected (0.10 sec)

mysql> desc student;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| Roll_no  | int         | YES  |     | NULL    |       |
| Name     | varchar(40) | YES  |     | NULL    |       |
| Division | varchar(40) | YES  |     | NULL    |       |
| Branch   | varchar(40) | YES  |     | NULL    |       |
| city     | varchar(40) | YES  |     | NULL    |       |
| marks    | int         | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
6 rows in set (0.01 sec)
```

2)

```
mysql> insert into student(
    -> Roll_no,
    -> Name,
    -> Division,
    -> Branch,
    -> City,
    -> Marks
    -> )
    -> VALUES
    -> (1,"Devayush Bajaj","First", "MCA", "Bhopal", 98),
    -> (2, "Abhishek", "First", "B.Tech", "Pune",97),
    -> (3, "Ram" ,"Second", "BE", "Gandhinagar", 79),
    -> (4, "Amitab Bachhan","First", "B.tech", "Delhi", 92),
    -> (5, "Akshay Kumar", "Third", "BE", "Mumbai", 65 ),
    -> (6, "Ajay","Second", "MCA", "Bhopal", 93),
    -> (7, "Salman", "Fail", "B.Com", "Delhi",32),
    -> (8, "Rphan", "First", "BCA", "Mumbai", 90),
    -> (9, "Vijay", "fourth", "BSC", "Pune", 36),
    -> (10, "Sham", "Third", "B.Tech", "Pune", 69);
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

3)

```
mysql> select name, city from student
    -> ;
+-----------------+--------------+
| name            | city         |
+-----------------+--------------+
| Devayush Bajaj  | Bhopal       |
| Abhishek        | Pune         |
| Ram             | Gandhinagar  |
| Amitab Bachhan  | Delhi        |
| Akshay Kumar    | Mumbai       |
| Ajay            | Bhopal       |
| Salman          | Delhi        |
| Rphan           | Mumbai       |
| Vijay           | Pune         |
| Sham            | Pune         |
+-----------------+--------------+
10 rows in set (0.00 sec)
```

4)

```
mysql> select DISTINCT name from student;
+-----------------+
| name            |
+-----------------+
| Devayush Bajaj  |
| Abhishek        |
| Ram             |
| Amitab Bachhan  |
| Akshay Kumar    |
| Ajay            |
| Salman          |
| Rphan           |
| Vijay           |
| Sham            |
+-----------------+
10 rows in set (0.00 sec)
```

5)

```
mysql> select * from student;
+---------+----------------+----------+---------+-------------+-------+
| Roll_no | Name           | Division | Branch  | city        | marks |
+---------+----------------+----------+---------+-------------+-------+
|       1 | Devayush Bajaj | First    | MCA     | Bhopal      |    98 |
|       2 | Abhishek       | First    | B.Tech  | Pune        |    97 |
|       3 | Ram            | Second   | BE      | Gandhinagar |    79 |
|       4 | Amitab Bachhan | First    | B.tech  | Delhi       |    92 |
|       5 | Akshay Kumar   | Third    | BE      | Mumbai      |    65 |
|       6 | Ajay           | Second   | MCA     | Bhopal      |    93 |
|       7 | Salman         | Fail     | B.Com   | Delhi       |    32 |
|       8 | Rphan          | First    | BCA     | Mumbai      |    90 |
|       9 | Vijay          | fourth   | BSC     | Pune        |    36 |
|      10 | Sham           | Third    | B.Tech  | Pune        |    69 |
+---------+----------------+----------+---------+-------------+-------+
10 rows in set (0.00 sec)
```

6)
```
mysql> select * from student where marks < 75;
+---------+--------------+----------+--------+--------+-------+
| Roll_no | Name         | Division | Branch | city   | marks |
+---------+--------------+----------+--------+--------+-------+
|       5 | Akshay Kumar | Third    | BE     | Mumbai |    65 |
|       7 | Salman       | Fail     | B.Com  | Delhi  |    32 |
|       9 | Vijay        | fourth   | BSC    | Pune   |    36 |
|      10 | Sham         | Third    | B.Tech | Pune   |    69 |
+---------+--------------+----------+--------+--------+-------+
4 rows in set (0.00 sec)
```

7)
```
mysql> select * from student where name like "s%";
+---------+--------+----------+--------+-------+-------+
| Roll_no | Name   | Division | Branch | city  | marks |
+---------+--------+----------+--------+-------+-------+
|       7 | Salman | Fail     | B.Com  | Delhi |    32 |
|      10 | Sham   | Third    | B.Tech | Pune  |    69 |
+---------+--------+----------+--------+-------+-------+
2 rows in set (0.01 sec)
```

8)

```
mysql> select * from student where marks between 50 and 60;
Empty set (0.00 sec)
```

9)

```
mysql> select * from student where branch like "B.Tech" and city like "Pune";
+---------+----------+----------+--------+------+-------+
| Roll_no | Name     | Division | Branch | city | marks |
+---------+----------+----------+--------+------+-------+
|       2 | Abhishek | First    | B.Tech | Pune |    97 |
|      10 | Sham     | Third    | B.Tech | Pune |    69 |
+---------+----------+----------+--------+------+-------+
2 rows in set (0.00 sec)
```

10)

```
mysql> update student set Branch ="IT" where Roll_no = 9;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student;
+---------+----------------+----------+--------+-------------+-------+
| Roll_no | Name           | Division | Branch | city        | marks |
+---------+----------------+----------+--------+-------------+-------+
|       1 | Devayush Bajaj | First    | MCA    | Bhopal      |    98 |
|       2 | Abhishek       | First    | B.Tech | Pune        |    97 |
|       3 | Ram            | Second   | BE     | Gandhinagar |    79 |
|       4 | Amitab Bachhan | First    | B.tech | Delhi       |    92 |
|       5 | Akshay Kumar   | Third    | BE     | Mumbai      |    65 |
|       6 | Ajay           | Second   | MCA    | Bhopal      |    93 |
|       7 | Salman         | Fail     | B.Com  | Delhi       |    32 |
|       8 | Rphan          | First    | BCA    | Mumbai      |    90 |
|       9 | Vijay          | fourth   | IT     | Pune        |    36 |
|      10 | Sham           | Third    | B.Tech | Pune        |    69 |
+---------+----------------+----------+--------+-------------+-------+
10 rows in set (0.00 sec)
```

11)

```
mysql> delete from student where branch ="BE";
Query OK, 2 rows affected (0.00 sec)

mysql> select * from student;
+---------+----------------+----------+--------+--------+-------+
| Roll_no | Name           | Division | Branch | city   | marks |
+---------+----------------+----------+--------+--------+-------+
|       1 | Devayush Bajaj | First    | MCA    | Bhopal |    98 |
|       2 | Abhishek       | First    | B.Tech | Pune   |    97 |
|       4 | Amitab Bachhan | First    | B.tech | Delhi  |    92 |
|       6 | Ajay           | Second   | MCA    | Bhopal |    93 |
|       7 | Salman         | Fail     | B.Com  | Delhi  |    32 |
|       8 | Rphan          | First    | BCA    | Mumbai |    90 |
|       9 | Vijay          | fourth   | IT     | Pune   |    36 |
|      10 | Sham           | Third    | B.Tech | Pune   |    69 |
+---------+----------------+----------+--------+--------+-------+
8 rows in set (0.00 sec)
```

12)

```
mysql> create schema students;
Query OK, 1 row affected (0.01 sec)

mysql> create table TE_Student(roll_no int, name varchar (40));
Query OK, 0 rows affected (0.06 sec)
```

13)

```
mysql> select * from student
    -> ;
+---------+----------------+----------+---------+--------+-------+
| Roll_no | Name           | Division | Branch  | city   | marks |
+---------+----------------+----------+---------+--------+-------+
|       1 | Devayush Bajaj | First    | MCA     | Bhopal |    98 |
|       2 | Abhishek       | First    | B.Tech  | Pune   |    97 |
|       4 | Amitab Bachhan | First    | B.tech  | Delhi  |    92 |
|       6 | Ajay           | Second   | MCA     | Bhopal |    93 |
|       7 | Salman         | Fail     | B.Com   | Delhi  |    32 |
|       8 | Rphan          | First    | BCA     | Mumbai |    90 |
|       9 | Vijay          | fourth   | IT      | Pune   |    36 |
|      10 | Sham           | Third    | B.Tech  | Pune   |    69 |
+---------+----------------+----------+---------+--------+-------+
8 rows in set (0.00 sec)

mysql> select * from te_student;
+---------+-------+
| roll_no | name  |
+---------+-------+
|      10 | Anurag |
|      11 | rohan  |
|      12 | vijay  |
+---------+-------+
3 rows in set (0.00 sec)
```

```
mysql> select roll_no, name from student union select roll_no,name from TE_Student;
+---------+----------------+
| roll_no | name           |
+---------+----------------+
|       1 | Devayush Bajaj |
|       2 | Abhishek       |
|       4 | Amitab Bachhan |
|       6 | Ajay           |
|       7 | Salman         |
|       8 | Rphan          |
|       9 | Vijay          |
|      10 | Sham           |
|      10 | Anurag         |
|      11 | rohan          |
|      12 | vijay          |
+---------+----------------+
11 rows in set (0.00 sec)
```

14)

```
mysql> select UPPER (name) from student;
+----------------+
| UPPER (name)   |
+----------------+
| DEVAYUSH BAJAJ |
| ABHISHEK       |
| AMITAB BACHHAN |
| AJAY           |
| SALMAN         |
| RPHAN          |
| VIJAY          |
| SHAM           |
+----------------+
8 rows in set (0.00 sec)
```

15)

```
mysql> select marks, HEX (marks), BIN (marks) from student;
+-------+-------------+-------------+
| marks | HEX (marks) | BIN (marks) |
+-------+-------------+-------------+
|    98 | 62          | 1100010     |
|    97 | 61          | 1100001     |
|    92 | 5C          | 1011100     |
|    93 | 5D          | 1011101     |
|    32 | 20          | 100000      |
|    90 | 5A          | 1011010     |
|    36 | 24          | 100100      |
|    69 | 45          | 1000101     |
+-------+-------------+-------------+
8 rows in set (0.00 sec)
```