

SQL ASSIGNMENT -1

As on 14/07/2022

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1) Create table

```
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) Insert 10 records

```
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) Show name and city only

```
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) Show distinct names only

```
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) Show full data

```
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) show marks less then 75

```
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) show the names starting from s

```
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) show the records having marks between 50 to 60

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

9) show all the records from branch B.Tech and City pune

```
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) Update Branch to IT where roll number is 9

```
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) Delete records of the students from BE branch

```
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) Create schema/table TE_Students with roll_no and name attributes

```
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) unite(Combine) both the tables

```
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) Show all the names in upper case letters

```
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) shoe Hex, bin of marks in the table

```
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)
```