

AIM :1

```
mysql> create table students(roll_no int primary key, name varchar(30), division
varchar(5), branch varchar(10), city varchar(10), marks int);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into students values(1, "Tanmay" , "B", "ENTC", "Pune", 97),(2, "Sujan" ,
"A", "CS", "Nanded", 90), (3, "Yash" , "C", "MCA", "Agra", 92), (4, "Aniket" , "B", "ENTC",
"Pune", 93), (5, "Mrunamayee" , "B", "ENTC", "Pune", 91), (6, "Shreya" , "A", "CS",
"Indore", 90), (7, "Krati" , "D", "IT", "Bhopal", 95), (8, "Harini" , "A", "CS", "Hyderabad",
95), (9, "Bala" , "E", "CS", "Andhra", 92), (10, "Aryaman","B", "IT", "Madhya", 90);
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> select * from students;
```

roll_no	name	division	branch	city	marks
1	Tanmay	B	ENTC	Pune	97
2	Sujan	A	CS	Nanded	90
3	Yash	C	MCA	Agra	92
4	Aniket	B	ENTC	Pune	93
5	Mrunamayee	B	ENTC	Pune	91
6	Shreya	A	CS	Indore	90
7	Krati	D	IT	Bhopal	95
8	Harini	A	CS	Hyderabad	95
9	Bala	E	CS	Andhra	92
10	Aryaman	B	IT	Madhya	90

10 rows in set (0.00 sec)

```
mysql> select name, city from students;
```

name	city
Tanmay	Pune
Sujan	Nanded
Yash	Agra
Aniket	Pune
Mrunamayee	Pune
Shreya	Indore
Krati	Bhopal
Harini	Hyderabad
Bala	Andhra

```
| Aryaman | Madhya |
+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select distinct name from students;
```

```
+-----+
| name |
+-----+
| Tanmay |
| Sujan |
| Yash |
| Aniket |
| Mrunamayee |
| Shreya |
| Krati |
| Harini |
| Bala |
| Aryaman |
+-----+
10 rows in set (0.00 sec)
```

```
mysql> select name, marks from students where marks > 75;
```

```
+-----+-----+
| name | marks |
+-----+-----+
| Tanmay | 97 |
| Sujan | 90 |
| Yash | 92 |
| Aniket | 93 |
| Mrunamayee | 91 |
| Shreya | 90 |
| Krati | 95 |
| Harini | 95 |
| Bala | 92 |
| Aryaman | 90 |
+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select name from students where name like 's%' ;
```

```
+-----+
| name |
+-----+
| Sujan |
```

```
| Shreya |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> select name, branch, city from students where branch = 'CS' and city = 'Pune';
Empty set (0.00 sec)
```

```
mysql> update students 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 students;
+-----+-----+-----+-----+-----+-----+
| roll_no | name    | division | branch | city    | marks |
+-----+-----+-----+-----+-----+-----+
| 1 | Tanmay | B        | ENTC   | Pune    | 97 |
| 2 | Sujana | A        | CS     | Nanded  | 90 |
| 3 | Yash   | C        | MCA    | Agra    | 92 |
| 4 | Aniket | B        | ENTC   | Pune    | 93 |
| 5 | Mrunamayee | B      | ENTC   | Pune    | 91 |
| 6 | Shreya | A        | CS     | Indore  | 90 |
| 7 | Krati  | D        | IT     | Bhopal  | 95 |
| 8 | Harini | A        | CS     | Hyderabad | 95 |
| 9 | Bala   | E        | IT     | Andhra  | 92 |
| 10 | Aryaman | B       | IT     | Madhya  | 90 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> delete from students where division = 'B';
Query OK, 4 rows affected (0.01 sec)
```

```
mysql> select * from students;
+-----+-----+-----+-----+-----+-----+
| roll_no | name    | division | branch | city    | marks |
+-----+-----+-----+-----+-----+-----+
| 2 | Sujana | A        | CS     | Nanded  | 90 |
| 3 | Yash   | C        | MCA    | Agra    | 92 |
| 6 | Shreya | A        | CS     | Indore  | 90 |
| 7 | Krati  | D        | IT     | Bhopal  | 95 |
| 8 | Harini | A        | CS     | Hyderabad | 95 |
| 9 | Bala   | E        | IT     | Andhra  | 92 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> create table TE_Students(roll_no int, name varchar(50));
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into TE_Students values(1, "ABC"), (2,"XYZ"), (3,"PQR");
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from te_students;
```

```
+-----+-----+
| roll_no | name |
+-----+-----+
|      1 | ABC |
|      2 | XYZ |
|      3 | PQR |
+-----+-----+
```

```
3 rows in set (0.00 sec)
```

```
mysql> select roll_no from students where students.roll_no = roll_no;
```

```
+-----+
| roll_no |
+-----+
|      2 |
|      3 |
|      6 |
|      7 |
|      8 |
|      9 |
+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql> create table TE_Students(roll int, name varchar(50));
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into TE_Students values(1, "ABC"), (2,"XYZ"), (3,"PQR");
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select roll_no from students union select roll from te_students;
```

```
+-----+
```

```
| roll_no |
```

```
+-----+
```

```
| 2 |
```

```
| 3 |
```

```
| 6 |
```

```
| 7 |
```

```
| 8 |
```

```
| 9 |
```

```
| 1 |
```

```
+-----+
```

```
7 rows in set (0.00 sec)
```

```
mysql> select upper(name) as uname from students;
```

```
+-----+
```

```
| uname |
```

```
+-----+
```

```
| SUJAN |
```

```
| YASH |
```

```
| SHREYA |
```

```
| KRATI |
```

```
| HARINI |
```

```
| BALA |
```

```
+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql> select bin(marks) from students;
```

```
+-----+
```

```
| bin(marks) |
```

```
+-----+
```

```
| 1011010 |
```

```
| 1011100 |
```

```
| 1011010 |
```

```
| 1011111 |
```

```
| 1011111 |
```

```
| 1011100 |
```

```
+-----+
```

```
6 rows in set (0.01 sec)
```

```
mysql> select hex(marks) from students;
```

```
+-----+
```

```
| hex(marks) |
```

+-----+	
5A	
5C	
5A	
5F	
5F	
5C	
+-----+	

6 rows in set (0.00 sec)

AIM 2

```
mysql> create table customers(cust_id int primary key auto_increment, cust_name  
varchar(50), product varchar(20), quantity int, total_price int);
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> insert into customers (cust_name, product,quantity, total_price) values("Tanmay",  
"Milk", 2, 150);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into customers (cust_name, product,quantity, total_price) values("Yash",  
"Bread", 4, 120), ("Aniket", "Butter", 2, 100), ("Mrunmai", "Jam", 3, 210);
```

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

```
mysql> select * from customers;
```

cust_id	cust_name	product	quantity	total_price
1	Tanmay	Milk	2	150
2	Yash	Bread	4	120
3	Aniket	Butter	2	100
4	Mrunmai	Jam	3	210

4 rows in set (0.00 sec)

```
mysql> create view Cust_View as select cust_id,cust_name from customers;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> alter view cust_view(cust_id, cust_name, total_price) as select cust_id,  
cust_name, total_price from customers;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from cust_view;
```

cust_id	cust_name	total_price
1	Tanmay	150
2	Yash	120
3	Aniket	100
4	Mrunmai	210

+-----+-----+-----+

4 rows in set (0.00 sec)

mysql> **drop view cust_view;**

Query OK, 0 rows affected (0.01 sec)

mysql> **alter table customers rename alias;**

Query OK, 0 rows affected (0.01 sec)

mysql> **drop table customers;**

ERROR 1051 (42S02): Unknown table 'training.customers'

mysql> **drop table alias;**

Query OK, 0 rows affected (0.01 sec)