

```
mysql> create table client_master(
-> client_no varchar(6),
-> client_name varchar(20),
-> city varchar(15),
-> state varchar(15),
-> pincode integer(6),
-> bal_due decimal(10,2));
Query OK, 0 rows affected, 1 warning (0.09 sec)
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_university |
+-----+
| client_master         |
+-----+
1 row in set (0.03 sec)
```

```
mysql> desc client_master;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| client_no | varchar(6) | YES | | NULL | |
| client_name | varchar(20) | YES | | NULL | |
| city | varchar(15) | YES | | NULL | |
| state | varchar(15) | YES | | NULL | |
| pincode | int | YES | | NULL | |
| bal_due | decimal(10,2) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)
```

```
mysql> insert into client_master
```

```
-> values("0001","Ivan","Bombay","Maharastra",400054,15000);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into client_master
```

```
-> values("0002","Vandana","Madras","Tamil Nadu",780001,0);
Query OK, 1 row affected (0.02 sec)
```

```
Command Prompt - mysql -u root -p
```

```
mysql> select * from client_master;
```

```
+-----+-----+-----+-----+-----+-----+
| client_no | client_name | city | state | pincode | bal_due |
+-----+-----+-----+-----+-----+-----+
| 0001 | Ivan | Bombay | Maharastra | 400054 | 15000.00 |
| 0002 | Vandana | Madras | Tamil Nadu | 780001 | 0.00 |
| 0003 | Pramada | Bombay | Maharastra | 400057 | 5000.00 |
| 0004 | Basu | Bombay | Maharastra | 400056 | 0.00 |
| 0005 | Ravi | Delhi | NULL | 100001 | 0.00 |
| 0006 | Rukhmini | Bombay | Maharastra | 400050 | 0.00 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> /*i- name of all clients*/
```

```
mysql> select client_name from client_master;
```

```
+-----+
| client_name |
+-----+
| Ivan |
| Vandana |
| Pramada |
| Basu |
| Ravi |
| Rukhmini |
+-----+
6 rows in set (0.00 sec)
```

```
mysql> /*ii- names and cities of all clients*/
```

```
mysql> select client_name,city from client_master;
```

```
+-----+-----+
| client_name | city |
+-----+-----+
| Ivan | Bombay |
| Vandana | Madras |
| Pramada | Bombay |
| Basu | Bombay |
| Ravi | Delhi |
| Rukhmini | Bombay |
+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> /*iii- all clients from bombay */
mysql> select * from client_master
-> where city = "Bombay";
+-----+-----+-----+-----+-----+-----+
| client_no | client_name | city | state | pincode | bal_due |
+-----+-----+-----+-----+-----+-----+
| 0001 | Ivan | Bombay | Maharastra | 400054 | 15000.00 |
| 0003 | Pramada | Bombay | Maharastra | 400057 | 5000.00 |
| 0004 | Basu | Bombay | Maharastra | 400056 | 0.00 |
| 0006 | Rukhmini | Bombay | Maharastra | 400050 | 0.00 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> /*iv- info of client 0001 and 0002 */
mysql> select * from client_master
-> where client_no = "0001" or client_no = "0002";
+-----+-----+-----+-----+-----+-----+
| client_no | client_name | city | state | pincode | bal_due |
+-----+-----+-----+-----+-----+-----+
| 0001 | Ivan | Bombay | Maharastra | 400054 | 15000.00 |
| 0002 | Vandana | Madras | Tamil Nadu | 780001 | 0.00 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> create database 2302040025sam;
Query OK, 1 row affected (0.13 sec)
```

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| 2302040025sam |
| client |
| information_schema |
| jatindb |
| mysql |
| performance_schema |
| sys |
| university |
+-----+
8 rows in set (0.16 sec)
```

```
mysql> use 2302040025sam;
```

```
Database changed
```

```
mysql> show tables;
```

```
Empty set (0.04 sec)
```

```
mysql> create table studentdetails(
```

```
-> name varchar(30),
-> rollno varchar(10),
-> gender varchar(10),
-> sem varchar(5),
-> branch varchar(10),
-> emailid varchar(20),
-> city varchar(20),
-> CGPA decimal(4,2));
Query OK, 0 rows affected (0.20 sec)
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_2302040025sam |
+-----+
| studentdetails |
+-----+
1 row in set (0.01 sec)
```

```
mysql> select * from studentdetails
-> where GPA like "%5.5%";
+-----+-----+-----+-----+-----+-----+
| name | rollno | gender | sem | branch | emailid | city | CGPA |
+-----+-----+-----+-----+-----+-----+
| Chandan Khillar | 2302010065 | M | 3rd | CSE | ckh5@gmail.com | Thiruvananthapuram | 6.52 |
| Rithika Mohapatra | 2302080008 | F | 3rd | CSE | mohapatrar@gmail.com | Balasore | 9.52 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> desc studentdetails;
```

Field	Type	Null	Key	Default	Extra
name	varchar(30)	YES		NULL	
rollno	varchar(10)	YES		NULL	
gender	varchar(10)	YES		NULL	
sem	varchar(5)	YES		NULL	
branch	varchar(10)	YES		NULL	
emailid	varchar(30)	YES		NULL	
city	varchar(20)	YES		NULL	
CGPA	decimal(4,2)	YES		NULL	

```
8 rows in set (0.04 sec)

mysql> select * from studentdetails;
Empty set (0.00 sec)
```

```
mysql> select * from studentdetails
-> where city in ("Bhubaneswar","Balsore");
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Samuel	2302040025	M	3rd	CSE	samuelprtyatn@gmail.com	Bhubaneswar	8.23
Trishna Das	2302041055	F	3rd	CSE	trishnadass2005@gmail.com	Bhubaneswar	8.99
Anurag Mishra	2302070045	M	3rd	EEE	anuragprivatejet@gmail.com	Balsore	8.75
Ritikha Mohapatra	2302080008	F	3rd	CSE	mohapatraritikha@gmail.com	Balsore	9.52

```
4 rows in set (0.05 sec)

mysql> select * from studentdetails
-> where name like "%s%";
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Samuel	2302040025	M	3rd	CSE	samuelprtyatn@gmail.com	Bhubaneswar	8.23
Trishna Das	2302041055	F	3rd	CSE	trishnadass2005@gmail.com	Bhubaneswar	8.99
Jatin Samad	2302041075	M	3rd	CSE	jatinssamad18@gmail.com	Bhubaneswar	7.18

```
2 rows in set (0.00 sec)

mysql> select * from studentdetails
-> where rollno like "%5%";
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Samuel	2302040025	M	3rd	CSE	samuelprtyatn@gmail.com	Bhubaneswar	8.23
Trishna Das	2302041055	F	3rd	CSE	trishnadass2005@gmail.com	Bhubaneswar	8.99
Jatin Samad	2302041075	M	3rd	CSE	jatinssamad18@gmail.com	Bhubaneswar	7.18
Anurag Mishra	2302070045	M	3rd	EEE	anuragprivatejet@gmail.com	Balsore	8.75

```
mysql> /*viii- delete the row with null value in state*/
mysql> delete from client_Master
-> where state is NULL;
Query OK, 1 row affected (0.05 sec)

mysql> /*ix- delete the record with clientno 0002"
/*> */
mysql> delete from client_Master
-> where client_no=0002;
Query OK, 1 row affected (0.15 sec)
```

```
mysql> select * from client_master;
```

client_no	name	city	pincode	state	bal_due
0001	Ivan	Bombay	768003	Maharashtra	15000.00
0003	Pramada	Bombay	400057	Maharashtra	5000.00
0004	Basu	Bombay	400050	Maharashtra	0.00
0006	Rukhmini	Bombay	400050	Maharashtra	0.00

```
4 rows in set (0.01 sec)

mysql> /*x- change the city of client 0004 to delhi and assign null to state*/
mysql> update client_master
-> set city="Delhi",state=NULL
-> where client_no=0004;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> /*xi- change the balance due of client 0001 to 1000*/
mysql> update client_master
-> set bal_due=1000
-> where client_no=0001;
Query OK, 1 row affected (0.10 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> /*v - all clients from city delhi, bombay or madras */
mysql> select * from client_master
-> where city in ("Delhi","Bombay","Madras");
```

client_no	name	city	pincode	state	bal_due
0001	Ivan	Bombay	768003	Maharashtra	15000.00
0002	Vandana	Madras	780001	Tamil Nadu	0.00
0003	Pramada	Bombay	400057	Maharashtra	5000.00
0004	Basu	Bombay	400050	Maharashtra	0.00
0005	Ravi	Delhi	100001	NULL	2000.00
0006	Rukhmini	Bombay	400050	Maharashtra	0.00

```
6 rows in set (0.03 sec)

mysql> /*vi - name,city and state of clients not in maharashtra*/
mysql> select * from client_master
-> where state <>"Maharashtra";
```

client_no	name	city	pincode	state	bal_due
0002	Vandana	Madras	780001	Tamil Nadu	0.00

```
1 row in set (0.00 sec)
```

```
mysql> /*vii - name of client with balance due more than 2000*/
mysql> select * from client_master
-> where bal_due>2000;
```

client_no	name	city	pincode	state	bal_due
0001	Ivan	Bombay	768003	Maharashtra	15000.00
0003	Pramada	Bombay	400057	Maharashtra	5000.00

```
2 rows in set (0.02 sec)
```

```
mysql> /*xii- client name and pincode with balance due >-1000 */
mysql> select name,pincode from client_master
-> where bal_due>-1000;
```

name	pincode
Ivan	768003
Pramada	400057

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

```
mysql> select * from studentdetails
-> where gender="w";
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Trishna Das	2302041055	F	3rd	CSE	trishnadass2005@gmail.com	Bhubaneswar	8.99
Jatin Samad	2302041075	M	3rd	CSE	jatinssamad18@gmail.com	Bhubaneswar	7.18
Ritikha Mohapatra	2302080008	F	3rd	CSE	mohapatraritikha@gmail.com	Balsore	9.52

```
3 rows in set (0.01 sec)

mysql> select * from studentdetails
-> where city like "%a%";
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Samuel	2302040025	M	3rd	CSE	samuelprtyatn@gmail.com	Bhubaneswar	8.23
Jatin Samad	2302041075	M	3rd	CSE	jatinssamad18@gmail.com	Bhubaneswar	7.18
Anurag Mishra	2302070045	M	3rd	EEE	anuragprivatejet@gmail.com	Balsore	8.75
Ritikha Mohapatra	2302080008	F	3rd	CSE	mohapatraritikha@gmail.com	Balsore	9.52

```
5 rows in set (0.02 sec)

mysql> select * from studentdetails
-> where gender="w";
```

name	rollno	gender	sem	branch	emailid	city	CGPA
Trishna Das	2302041055	F	3rd	CSE	trishnadass2005@gmail.com	Bhubaneswar	8.99
Jatin Samad	2302041075	M	3rd	CSE	jatinssamad18@gmail.com	Bhubaneswar	7.18
Ritikha Mohapatra	2302080008	F	3rd	CSE	mohapatraritikha@gmail.com	Balsore	9.52

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

```
mysql> /*xii- client in name with second letter 'a' */
mysql> select * from client_master
-> where name like "_a%";
```

client_no	name	city	pincode	state	bal_due
0004	Basu	Delhi	400050	NULL	0.00

```
1 row in set (0.01 sec)
```