**WELCOME TO ADDRESS BOOK DATABASE**

**UC1:**

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| payroll\_service |

| performance\_schema |

| sys |

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

5 rows in set (0.05 sec)

mysql> create database AddressBook;

Query OK, 1 row affected (0.03 sec)

mysql> show databases;

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

| Database |

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

| addressbook |

| information\_schema |

| mysql |

| payroll\_service |

| performance\_schema |

| sys |

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

6 rows in set (0.00 sec)

mysql> use addressbook;

Database changed

mysql> select database();

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

| database() |

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

| addressbook |

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

1 row in set (0.00 sec)

**UC2:**

mysql> create table addressbooks

-> (

-> id int unsigned not null auto\_increment,

-> firstname varchar(20) not null,

-> lastname varchar(10) not null,

-> address varchar(20) not null,

-> city varchar(20) not null,

-> zip int(10) not null,\

-> phonenumber long not null,

-> primary key (id));

Query OK, 0 rows affected, 1 warning (0.11 sec)

mysql> describe addressbooks;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int unsigned | NO | PRI | NULL | auto\_increment |

| firstname | varchar(20) | NO | | NULL | |

| lastname | varchar(10) | NO | | NULL | |

| address | varchar(20) | NO | | NULL | |

| city | varchar(20) | NO | | NULL | |

| zip | int | NO | | NULL | |

| phonenumber | mediumtext | NO | | NULL | |

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

7 rows in set (0.02 sec)

**UC3:**

mysql> insert into addressbooks(firstname, lastname, address, city, zip, phonenumber) values

-> ('ARJUN','KOTARI','HYD','NZB','5001122','9988778899'),

-> ('SAI','XYZ','TS','KMR','5001122','9998887770'),

-> ('SAI','ASD','AP','AAA','5001133','9998886655');

Query OK, 3 rows affected (0.02 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber |

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

| 1 | ARJUN | KOTARI | HYD | NZB | 5001122 | 9988778899 |

| 2 | SAI | XYZ | TS | KMR | 5001122 | 9998887770 |

| 3 | SAI | ASD | AP | AAA | 5001133 | 9998886655 |

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

3 rows in set (0.01 sec)

**UC4:**

mysql> update addressbooks set firstname = 'SAIKUMAR' where firstname ='ARJUN';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 |

| 2 | SAI | XYZ | TS | KMR | 5001122 | 9998887770 |

| 3 | SAI | ASD | AP | AAA | 5001133 | 9998886655 |

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

3 rows in set (0.01 sec)

mysql> update addressbooks set firstname = 'ARJUN' where lastname ='ASD';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 |

| 2 | SAI | XYZ | TS | KMR | 5001122 | 9998887770 |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 |

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

3 rows in set (0.00 sec)

**UC5:**

mysql> delete from addressbooks where firstname ='SAI';

Query OK, 1 row affected (0.01 sec)

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 |

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

2 rows in set (0.00 sec)

**UC6:**

mysql> select lastname from addressbooks where city='NZB';

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

| lastname |

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

| KOTARI |

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

1 row in set (0.00 sec)

**UC7:**

mysql> select count(city) from addressbooks;

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

| count(city) |

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

| 2 |

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

1 row in set (0.01 sec)

**UC8:**

mysql> SELECT firstname, lastname, address, city, zip, phonenumber FROM addressbooks ORDER BY firstname;

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

| firstname | lastname | address | city | zip | phonenumber |

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

| ARJUN | ASD | AP | AAA | 5001133 | 9998886655 |

| SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 |

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

2 rows in set (0.01 sec)

**UC9:**

mysql> ALTER TABLE addressbooks ADD type VARCHAR(15) AFTER phonenumber;

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> describe addressbooks;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int unsigned | NO | PRI | NULL | auto\_increment |

| firstname | varchar(20) | NO | | NULL | |

| lastname | varchar(10) | NO | | NULL | |

| address | varchar(20) | NO | | NULL | |

| city | varchar(20) | NO | | NULL | |

| zip | int | NO | | NULL | |

| phonenumber | mediumtext | NO | | NULL | |

| type | varchar(15) | YES | | NULL | |

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

8 rows in set (0.03 sec)

mysql> UPDATE addressbooks SET type = 'Family' WHERE firstname = 'arjun';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber | type |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 | NULL |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 | Family |

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

2 rows in set (0.00 sec)

mysql> UPDATE addressbooks SET type = 'Friend' WHERE firstname = 'saikumar';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber | type |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 | Friend |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 | Family |

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

2 rows in set (0.00 sec)

mysql> insert into addressbooks values(2,'SAI','QWE','NZB','KMR',5000111,7788665789,'Profession');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber | type |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 | Friend |

| 2 | SAI | QWE | NZB | KMR | 5000111 | 7788665789 | Profession |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 | Family |

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

3 rows in set (0.00 sec)

**UC10:**

mysql> SELECT type, COUNT(firstname) FROM addressbooks WHERE type = 'Family';

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

| type | COUNT(firstname) |

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

| Family | 1 |

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

1 row in set (0.01 sec)

mysql> SELECT type, COUNT(firstname) FROM addressbooks WHERE type = 'Friend';

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

| type | COUNT(firstname) |

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

| Friend | 1 |

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

1 row in set (0.00 sec)

mysql> SELECT type, COUNT(firstname) FROM addressbooks WHERE type = 'profession';

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

| type | COUNT(firstname) |

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

| Profession | 1 |

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

1 row in set (0.00 sec)

**UC11:**

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber | type |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 | Friend |

| 2 | SAI | QWE | NZB | KMR | 5000111 | 7788665789 | Profession |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 | Family |

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

3 rows in set (0.00 sec)

mysql> insert into addressbooks(firstname, lastname, address, city, zip, phonenumber,type) values

-> ('ABC','AAA','TS','KMR',500234,7786345432,'Friend'),

-> ('XYZ','QWE','TS','YLR',501234,9876567890,'Family');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from addressbooks;

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

| id | firstname | lastname | address | city | zip | phonenumber | type |

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

| 1 | SAIKUMAR | KOTARI | HYD | NZB | 5001122 | 9988778899 | Friend |

| 2 | SAI | QWE | NZB | KMR | 5000111 | 7788665789 | Profession |

| 3 | ARJUN | ASD | AP | AAA | 5001133 | 9998886655 | Family |

| 4 | ABC | AAA | TS | KMR | 500234 | 7786345432 | Friend |

| 5 | XYZ | QWE | TS | YLR | 501234 | 9876567890 | Family |

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

5 rows in set (0.00 sec)