**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)

**UC13:**

mysql> create table contacts

-> (

-> name VARCHAR(15) NOT NULL,

-> email VARCHAR(30) NOT NULL,

-> address VARCHAR(50) NOT NULL,

-> phone VARCHAR(10) NOT NULL,

-> state VARCHAR(150) NOT NULL,

-> primary key (name)

-> );

Query OK, 0 rows affected (0.18 sec)

mysql> describe contacts;

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

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

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

| name | varchar(15) | NO | PRI | NULL | |

| email | varchar(30) | NO | | NULL | |

| address | varchar(50) | NO | | NULL | |

| phone | varchar(10) | NO | | NULL | |

| state | varchar(150) | NO | | NULL | |

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

5 rows in set (0.02 sec)

mysql> create table address

-> (

-> city VARCHAR(150) NOT NULL,

-> state VARCHAR(15) NOT NULL,

-> zip INT NOT NULL,

-> phone VARCHAR(10) NOT NULL,

-> primary key (city)

-> );

Query OK, 0 rows affected (0.04 sec)

mysql> describe address;

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

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

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

| city | varchar(150) | NO | PRI | NULL | |

| state | varchar(15) | NO | | NULL | |

| zip | int | NO | | NULL | |

| phone | varchar(10) | NO | | NULL | |

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

4 rows in set (0.00 sec)

mysql> create table address\_type

-> (

-> name VARCHAR(15) NOT NULL,

-> city VARCHAR(15) NOT NULL,

-> type VARCHAR(10) NOT NULL,

-> primary key (name)

-> );

Query OK, 0 rows affected (0.05 sec)

mysql> describe address\_type;

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

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

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

| name | varchar(15) | NO | PRI | NULL | |

| city | varchar(15) | NO | | NULL | |

| type | varchar(10) | NO | | NULL | |

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

3 rows in set (0.01 sec)

mysql> insert into contacts values

-> ('Arjun','arjun@gmail.com','Hyd',8788998765,'TS'),

-> ('Sai','Sai@gmail.co','Kmr',7788998866,'TS'),

-> ('ABC','ABC@gmail.co','XYZ',8897658909,'TS');

Query OK, 3 rows affected (0.02 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from contacts;

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

| name | email | address | phone | state |

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

| ABC | ABC@gmail.co | XYZ | 8897658909 | TS |

| Arjun | arjun@gmail.com | Hyd | 8788998765 | TS |

| Sai | Sai@gmail.co | Kmr | 7788998866 | TS |

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

3 rows in set (0.00 sec)

mysql> insert into address values

-> ('HYD','TS',500084,8833774444),

-> ('KMR','AP',550088,9876789098),

-> ('KDP','TS',503233,9897689876);

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from address;

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

| city | state | zip | phone |

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

| HYD | TS | 500084 | 8833774444 |

| KDP | TS | 503233 | 9897689876 |

| KMR | AP | 550088 | 9876789098 |

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

3 rows in set (0.01 sec)

mysql> insert into address\_type values

-> ('Arjun','HYD','Family'),

-> ('Sai','TS','Friend'),

-> ('ABC','AP','Profession');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from address\_type;

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

| name | city | type |

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

| ABC | AP | Profession |

| Arjun | HYD | Family |

| Sai | TS | Friend |

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

3 rows in set (0.00 sec)