Address Book System

```
mysql> create database AddressBook_Service;
Query OK, 1 row affected (0.05 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| addressbook_service |
| information_schema |
| mysql              |
| payroll_service    |
| performance_schema |
| sampledb           |
| studentdatabase    |
| sys                |
+--------------------+
8 rows in set (0.00 sec)

mysql> use addressbook_service;
Database changed
mysql> CREATE TABLE AddressBook(FirstName VARCHAR(50) ,LastName VARCHAR(50),Address VARCHAR(255),City VARCHAR(50),State VARCHAR(50),Zip VARCHAR(10),PhoneNumber VARCHAR(15),Email VARCHAR(255));
Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO AddressBook VALUES('Poorvika','G','33A Malur','Bangalore','Karnataka','635245','9367856274','poorvi@gmail.com'),('Sanjana','R','13 Ketti','Bangalore','Karnataka','643215','8539276541','sanjana@gmail.com');
Query OK, 2 rows affected (0.05 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+-----------+-----------+-----------+--------+-------------+-------------------+
| FirstName | LastName | Address   | City      | State     | Zip    | PhoneNumber | Email             |
+-----------+----------+-----------+-----------+-----------+--------+-------------+-------------------+
| Poorvika  | G        | 33A Malur | Bangalore | Karnataka | 635245 | 9367856274  | poorvi@gmail.com  |
| Sanjana   | R        | 13 Ketti  | Bangalore | Karnataka | 643215 | 8539276541  | sanjana@gmail.com |
+-----------+----------+-----------+-----------+-----------+--------+-------------+-------------------+
2 rows in set (0.00 sec)

mysql> UPDATE AddressBook SET City='Mysore' WHERE FirstName='Sanjana' AND LastName='R';
```

```
mysql> UPDATE AddressBook SET City='Mysore' WHERE FirstName='Sanjana' AND LastName='R';
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
| FirstName | LastName | Address   | City      | State     | Zip    | PhoneNumber | Email            |
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
| Poorvika  | G        | 33A Malur | Bangalore | Karnataka | 635245 | 9367856274 | poorvi@gmail.com  |
| Sanjana   | R        | 13 Ketti  | Mysore    | Karnataka | 643215 | 8539276541 | sanjana@gmail.com |
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
2 rows in set (0.00 sec)

mysql> DELETE FROM AddressBook WHERE FirstName ='Sanjana' AND LastName='R';
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM AddressBook;
+-----------+----------+-----------+-----------+-----------+--------+------------+------------------+
| FirstName | LastName | Address   | City      | State     | Zip    | PhoneNumber | Email           |
+-----------+----------+-----------+-----------+-----------+--------+------------+------------------+
| Poorvika  | G        | 33A Malur | Bangalore | Karnataka | 635245 | 9367856274 | poorvi@gmail.com |
+-----------+----------+-----------+-----------+-----------+--------+------------+------------------+
1 row in set (0.00 sec)

mysql> INSERT INTO AddressBook VALUES('Yakshana','H','33A Shanthoor','Coimbatore','Tamilnadu','635242','7364856274','yakshu@gmail.com'),('Sanjana','R','13 K
etti','Bangalore','Karnataka','643215','8539276541','sanjana@gmail.com');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+
| FirstName | LastName | Address       | City       | State     | Zip    | PhoneNumber | Email            |
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+
| Poorvika  | G        | 33A Malur     | Bangalore  | Karnataka | 635245 | 9367856274 | poorvi@gmail.com  |
| Yakshana  | H        | 33A Shanthoor | Coimbatore | Tamilnadu | 635242 | 7364856274 | yakshu@gmail.com  |
| Sanjana   | R        | 13 Ketti      | Bangalore  | Karnataka | 643215 | 8539276541 | sanjana@gmail.com |
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM AddressBook WHERE City = 'Coimbatore' AND State = 'Tamilnadu';
+-----------+----------+---------------+------------+-----------+--------+------------+------------------+
| FirstName | LastName | Address       | City       | State     | Zip    | PhoneNumber | Email           |
+-----------+----------+---------------+------------+-----------+--------+------------+------------------+
| Yakshana  | H        | 33A Shanthoor | Coimbatore | Tamilnadu | 635242 | 7364856274 | yakshu@gmail.com |
+-----------+----------+---------------+------------+-----------+--------+------------+------------------+
1 row in set (0.00 sec)

mysql> SELECT City,State,Count(*) FROM AddressBook GROUP BY City, State;
+------------+-----------+----------+
| City       | State     | Count(*) |
+------------+-----------+----------+
| Bangalore  | Karnataka |        2 |
| Coimbatore | Tamilnadu |        1 |
+------------+-----------+----------+
2 rows in set (0.04 sec)

mysql> SELECT * FROM AddressBook WHERE City ='Bangalore' ORDER BY FirstName, LastName;
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
| FirstName | LastName | Address   | City      | State     | Zip    | PhoneNumber | Email            |
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
| Poorvika  | G        | 33A Malur | Bangalore | Karnataka | 635245 | 9367856274 | poorvi@gmail.com  |
| Sanjana   | R        | 13 Ketti  | Bangalore | Karnataka | 643215 | 8539276541 | sanjana@gmail.com |
+-----------+----------+-----------+-----------+-----------+--------+------------+-------------------+
2 rows in set (0.01 sec)

mysql> ALTER TABLE AddressBook ADD COLUMN Name VARCHAR(100),ADD COLUMN Type VARCHAR(50);
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+------+------+
| FirstName | LastName | Address       | City       | State     | Zip    | PhoneNumber | Email            | Name | Type |
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+------+------+
| Poorvika  | G        | 33A Malur     | Bangalore  | Karnataka | 635245 | 9367856274 | poorvi@gmail.com  | NULL | NULL |
| Yakshana  | H        | 33A Shanthoor | Coimbatore | Tamilnadu | 635242 | 7364856274 | yakshu@gmail.com  | NULL | NULL |
| Sanjana   | R        | 13 Ketti      | Bangalore  | Karnataka | 643215 | 8539276541 | sanjana@gmail.com | NULL | NULL |
+-----------+----------+---------------+------------+-----------+--------+------------+-------------------+------+------+
3 rows in set (0.00 sec)
```

```
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+----------+--------+
| FirstName | LastName | Address      | City       | State     | Zip    | PhoneNumber | Email            | Name     | Type   |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+----------+--------+
| Poorvika  | G        | 33A Malur    | Bangalore  | Karnataka | 635245 | 9367856274  | poorvi@gmail.com | NULL     | NULL   |
| Yakshana  | H        | 33A Shanthoor| Coimbatore | Tamilnadu | 635242 | 7364856274  | yakshu@gmail.com | NULL     | NULL   |
| Sanjana   | R        | 13 Ketti     | Bangalore  | Karnataka | 643215 | 8539276541  | sanjana@gmail.com| NULL     | NULL   |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+----------+--------+
3 rows in set (0.00 sec)

mysql> UPDATE AddressBook SET Name = CONCAT(FirstName, ' ', LastName),Type = 'Friends' WHERE Type IS NULL OR Type = '';
Query OK, 3 rows affected (0.05 sec)
Rows matched: 3  Changed: 3  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+---------+
| FirstName | LastName | Address      | City       | State     | Zip    | PhoneNumber | Email            | Name      | Type    |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+---------+
| Poorvika  | G        | 33A Malur    | Bangalore  | Karnataka | 635245 | 9367856274  | poorvi@gmail.com | Poorvika G| Friends |
| Yakshana  | H        | 33A Shanthoor| Coimbatore | Tamilnadu | 635242 | 7364856274  | yakshu@gmail.com | Yakshana H| Friends |
| Sanjana   | R        | 13 Ketti     | Bangalore  | Karnataka | 643215 | 8539276541  | sanjana@gmail.com| Sanjana R | Friends |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+---------+
3 rows in set (0.00 sec)

mysql> UPDATE AddressBook SET Type = 'Profession' WHERE FirstName='Sanjana';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM AddressBook;
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+------------+
| FirstName | LastName | Address      | City       | State     | Zip    | PhoneNumber | Email            | Name      | Type       |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+------------+
| Poorvika  | G        | 33A Malur    | Bangalore  | Karnataka | 635245 | 9367856274  | poorvi@gmail.com | Poorvika G| Friends    |
| Yakshana  | H        | 33A Shanthoor| Coimbatore | Tamilnadu | 635242 | 7364856274  | yakshu@gmail.com | Yakshana H| Friends    |
| Sanjana   | R        | 13 Ketti     | Bangalore  | Karnataka | 643215 | 8539276541  | sanjana@gmail.com| Sanjana R | Profession |
+-----------+----------+--------------+------------+-----------+--------+-------------+------------------+-----------+------------+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM AddressBook;
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
| FirstName | LastName | Address      | City       | State     | Zip    | PhoneNumber | Email             | Type       |
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
| Poorvika  | G        | 33A Malur    | Bangalore  | Karnataka | 635245 | 9367856274  | poorvi@gmail.com  | Friends    |
| Yakshana  | H        | 33A Shanthoor| Coimbatore | Tamilnadu | 635242 | 7364856274  | yakshu@gmail.com  | Friends    |
| Sanjana   | R        | 13 Ketti     | Bangalore  | Karnataka | 643215 | 8539276541  | sanjana@gmail.com | Profession |
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
3 rows in set (0.00 sec)

mysql> SELECT Type,COUNT(*) FROM AddressBook GROUP BY Type;
+------------+----------+
| Type       | COUNT(*) |
+------------+----------+
| Friends    |        2 |
| Profession |        1 |
+------------+----------+
2 rows in set (0.00 sec)

mysql> INSERT INTO AddressBook (FirstName, LastName, Address, City, State, Zip, PhoneNumber, Email, Type) VALUES('Daniel','S','51 Coonoor','Coimbatore','Tam
ilnadu','629761','9367625478','daniel@gmail.com','Family');
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM AddressBook;
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
| FirstName | LastName | Address      | City       | State     | Zip    | PhoneNumber | Email             | Type       |
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
| Poorvika  | G        | 33A Malur    | Bangalore  | Karnataka | 635245 | 9367856274  | poorvi@gmail.com  | Friends    |
| Yakshana  | H        | 33A Shanthoor| Coimbatore | Tamilnadu | 635242 | 7364856274  | yakshu@gmail.com  | Friends    |
| Sanjana   | R        | 13 Ketti     | Bangalore  | Karnataka | 643215 | 8539276541  | sanjana@gmail.com | Profession |
| Daniel    | S        | 51 Coonoor   | Coimbatore | Tamilnadu | 629761 | 9367625478  | daniel@gmail.com  | Family     |
+-----------+----------+--------------+------------+-----------+--------+-------------+-------------------+------------+
4 rows in set (0.00 sec)
```