Address Book

#UC1

```
create database address_book_service;
mysql> show databases;
+----------------------+
| Database             |
+----------------------+
| address_book_service |
| information_schema   |
| mysql                |
| payroll_service      |
| performance_schema   |
| sys                  |
+----------------------+
6 rows in set (0.04 sec)

mysql> use address_book_service;
Database changed
```

#UC2

```
mysql> create table address_book
    -> (number int unsigned not null auto_increment,
    -> First_Name varchar(50) not null,
    -> Last_Name varchar(50) not null,
    -> Address varchar(50) not null,
    -> City varchar(50) not null,
    -> State varchar(50) not null,
    -> zip int(6) not null,
    -> Phone_Number bigint not null,
    -> Email varchar(50) not null,
    -> primary key (number)
    -> );
Query OK, 0 rows affected, 1 warning (0.84 sec)

mysql> describe address_book;
```

Field	Type	Null	Key	Default	Extra
number	int unsigned	NO	PRI	NULL	auto_increment
First_Name	varchar(50)	NO		NULL	
Last_Name	varchar(50)	NO		NULL	
Address	varchar(50)	NO		NULL	
City	varchar(50)	NO		NULL	

```
| State        | varchar(50) | NO  |     | NULL    |                |
| zip          | int         | NO  |     | NULL    |                |
| Phone_Number | bigint      | NO  |     | NULL    |                |
| Email        | varchar(50) | NO  |     | NULL    |                |
+--------------+-------------+-----+-----+---------+----------------+
9 rows in set (0.19 sec)
```

#UC3

```
mysql> insert into address_book (First_Name,Last_name, address,
city,state,zip,phone_number,email) values
    -> ('Shradha', 'Nambiar', 'Smrithi', 'Kannur','Kerala', '670562',
'9567552477', 'sradha@gmail.com'),
    -> ('Deepti', 'Nambiar', 'Nile','Kannur','Kerala', '670562', '8576633579',
'deepti@gmail.com'),
    -> ('Priya', 'Shetty', 'xyz', 'Bangalore','Karnataka', 562100, 9865328899,
'pri@gmail.com');
Query OK, 3 rows affected (0.38 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select * from address_book;
+--------+------------+-----------+---------+-----------+-----------+--------+--
------------+------------------+
| number | First_Name | Last_Name | Address | City      | State     | zip    |
Phone_Number | Email            |
+--------+------------+-----------+---------+-----------+-----------+--------+--
------------+------------------+
|      1 | Shradha    | Nambiar   | Smrithi | Kannur    | Kerala    | 670562 |
9567552477 | sradha@gmail.com |
|      2 | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    | 670562 |
8576633579 | deepti@gmail.com |
|      3 | Priya      | Shetty    | xyz     | Bangalore | Karnataka | 562100 |
9865328899 | pri@gmail.com    |
+--------+------------+-----------+---------+-----------+-----------+--------+--
------------+------------------+
3 rows in set (0.00 sec)
```

#UC4

```
mysql> update address_book set address = 'abc' where First_name = 'Shradha';
Query OK, 1 row affected (0.29 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from address_book;
+--------+------------+-----------+---------+-----------+-----------+--------+--
------------+------------------+
```

```
| number | First_Name | Last_Name | Address | City      | State     | zip    | Phone_Number | Email             |
+--------+------------+-----------+---------+-----------+-----------+--------+--------------+-------------------+
|      1 | Shradha    | Nambiar   | abc     | Kannur    | Kerala    | 670562 | 9567552477   | sradha@gmail.com  |
|      2 | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    | 670562 | 8576633579   | deepti@gmail.com  |
|      3 | Priya      | Shetty    | xyz     | Bangalore | Karnataka | 562100 | 9865328899   | pri@gmail.com     |
+--------+------------+-----------+---------+-----------+-----------+--------+--------------+-------------------+
3 rows in set (0.08 sec)
```

#UC5

```
mysql> delete from address_book where first_name = 'Shradha'
    -> ;
Query OK, 1 row affected (0.44 sec)
```

```
mysql> select * from address_book;
+--------+------------+-----------+---------+-----------+-----------+--------+--------------+-------------------+
| number | First_Name | Last_Name | Address | City      | State     | zip    | Phone_Number | Email             |
+--------+------------+-----------+---------+-----------+-----------+--------+--------------+-------------------+
|      2 | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    | 670562 | 8576633579   | deepti@gmail.com  |
|      3 | Priya      | Shetty    | xyz     | Bangalore | Karnataka | 562100 | 9865328899   | pri@gmail.com     |
+--------+------------+-----------+---------+-----------+-----------+--------+--------------+-------------------+
2 rows in set (0.07 sec)
```

#UC6

```
mysql> select * from address_book where city = 'Kannur' or state = 'Kerala';
+--------+------------+-----------+---------+--------+--------+--------+--------------+-------------------+
| number | First_Name | Last_Name | Address | City   | State  | zip    | Phone_Number | Email             |
+--------+------------+-----------+---------+--------+--------+--------+--------------+-------------------+
|      2 | Deepti     | Nambiar   | Nile    | Kannur | Kerala | 670562 | 8576633579   | deepti@gmail.com  |
```

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

#UC7

mysql> select first_name, city, state, count(first_name) from address_book group
by state;
```
+------------+-----------+-----------+-------------------+
| first_name | city      | state     | count(first_name) |
+------------+-----------+-----------+-------------------+
| Deepti     | Kannur    | Kerala    |                 1 |
| Priya      | Bangalore | Karnataka |                 1 |
+------------+-----------+-----------+-------------------+
```
2 rows in set (0.00 sec)

#UC8

mysql> select * from address_book where city = 'kannur' order by first_name;
```
+--------+------------+-----------+---------+--------+--------+--------+--------
------+-----------------+
| number | First_Name | Last_Name | Address | City   | State  | zip    |
Phone_Number | Email           |
+--------+------------+-----------+---------+--------+--------+--------+--------
------+-----------------+
|      2 | Deepti     | Nambiar   | Nile    | Kannur | Kerala | 670562 |
8576633579 | deepti@gmail.com |
|      4 | Shradha    | Nambiar   | Abc     | Kannur | Kerala | 670562 |
9567552777 | sradha@gmail.com |
+--------+------------+-----------+---------+--------+--------+--------+--------
------+-----------------+
```
2 rows in set (0.01 sec)

#UC9

mysql> Alter table address_book add Type varchar(15) after number;
Query OK, 0 rows affected (3.39 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from address_book
    -> ;
```
+--------+------+------------+-----------+---------+-----------+-----------+----
----+--------------+-----------------+
| number | Type | First_Name | Last_Name | Address | City      | State     | zip
| Phone_Number | Email           |
```

```
+--------+------+------------+-----------+---------+-----------+-----------+--------+-------------+-----------------+
|      2 | NULL | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    |
670562 |   8576633579 | deepti@gmail.com |
|      3 | NULL | Priya      | Shetty    | xyz     | Bangalore | Karnataka |
562100 |   9865328899 | pri@gmail.com    |
|      4 | NULL | Shradha    | Nambiar   | Abc     | Kannur    | Kerala    |
670562 |   9567552777 | sradha@gmail.com |
+--------+------+------------+-----------+---------+-----------+-----------+--------+-------------+-----------------+
3 rows in set (0.00 sec)

mysql> update address_book set Type = 'Family' where First_Name = 'Deepti';
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update address_book set Type = 'Friends' where First_Name = 'Priya';
Query OK, 1 row affected (0.18 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update address_book set Type = 'Family' where First_Name = 'Shradha';
Query OK, 1 row affected (0.16 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from address_book
    -> ;
+--------+---------+------------+-----------+---------+-----------+-----------+--------+-------------+-----------------+
| number | Type    | First_Name | Last_Name | Address | City      | State     | zip    | Phone_Number | Email           |
+--------+---------+------------+-----------+---------+-----------+-----------+--------+-------------+-----------------+
|      2 | Family  | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    |
670562 |   8576633579 | deepti@gmail.com |
|      3 | Friends | Priya      | Shetty    | xyz     | Bangalore | Karnataka |
562100 |   9865328899 | pri@gmail.com    |
|      4 | Family  | Shradha    | Nambiar   | Abc     | Kannur    | Kerala    |
670562 |   9567552777 | sradha@gmail.com |
+--------+---------+------------+-----------+---------+-----------+-----------+--------+-------------+-----------------+
3 rows in set (0.00 sec)

#UC10

mysql> select type, count(type) from address_book group by type;
+---------+-------------+
```

```
| type    | count(type) |
+---------+-------------+
| Family  |           2 |
| Friends |           1 |
+---------+-------------+
2 rows in set (0.00 sec)
```

#UC11

```
mysql> insert into
address_book(type,first_name,last_name,address,city,state,zip,phone_number,email
) values ('Family', 'Rohan', 'Nambiar', 'Akua', 'Kannur', 'Kerala', 670563,
9988776532, 'rakuu@gmail.com');
Query OK, 1 row affected (0.14 sec)

mysql> insert into
address_book(type,first_name,last_name,address,city,state,zip,phone_number,email
) values ('Friends', 'Shreya', 'Nayar', 'AAA', 'Kochi', 'Kerala', 670773,
9988775232, 'sn56@gmail.com');
Query OK, 1 row affected (0.20 sec)

mysql> select * from address_book;
+--------+---------+------------+-----------+---------+-----------+-----------+-
-------+--------------+------------------+
| number | Type    | First_Name | Last_Name | Address | City      | State     |
zip    | Phone_Number | Email            |
+--------+---------+------------+-----------+---------+-----------+-----------+-
-------+--------------+------------------+
|      2 | Family  | Deepti     | Nambiar   | Nile    | Kannur    | Kerala    |
670562 |   8576633579 | deepti@gmail.com |
|      3 | Friends | Priya      | Shetty    | xyz     | Bangalore | Karnataka |
562100 |   9865328899 | pri@gmail.com    |
|      4 | Family  | Shradha    | Nambiar   | Abc     | Kannur    | Kerala    |
670562 |   9567552777 | sradha@gmail.com |
|      5 | Family  | Rohan      | Nambiar   | Akua    | Kannur    | Kerala    |
670563 |   9988776532 | rakuu@gmail.com  |
|      6 | Friends | Shreya     | Nayar     | AAA     | Kochi     | Kerala    |
670773 |   9988775232 | sn56@gmail.com   |
+--------+---------+------------+-----------+---------+-----------+-----------+-
-------+--------------+------------------+
5 rows in set (0.00 sec)
```