

UC1.Ability to create a Address Book Service

```
CREATE DATABASE address_book_db;
```

```
show databases;
```

```
+-----+
| Database      |
+-----+
| address_book_db |
| customer      |
| information_schema |
| mysql         |
| payroll_service |
| performance_schema |
| sakila        |
| sys           |
| world         |
+-----+
```

UC2.Ability to create a AddressBook Table with first and last names, address, city,state, zip,phone number and email as its attributes.

```
create table address_book;
```

```
ERROR 4028 (HY000): A table must have at least one visible column.
```

```
mysql> create table address_book(
```

```
    -> name varchar(40),
    -> last_name varchar(40),
    -> address varchar(30),
    -> city varchar(20),
    -> state varchar(30),
    -> zip bigint,
    -> phone_number bigint,
    -> email varchar(20) );
```

UC3.Ability to insert newContacts to Address Book

```
insert into address_book (name, last_name, address, city, state, zip, phone_number, email)
    -> values('mrunal', 'nagalwade', 'ram nagar', 'nagpur', 'maharashtra', '440041', '9434456756',
'mru@gmail.com'),
    -> ('puja', 'nagalwade', 'lokmanya nagar', 'nagpur', 'maharashtra', '440041', '8756789765',
'p@gmail.com'),
    -> ('riya', 'urkude', 'indira nagar', 'pune', 'maharashtra', '440065', '7323567899',
'r@gmail.com');
```

UC4.Ability to edit existing contact person using their.

```
name
```

```
update address_book set name= "swety" where name="mrunal";
```

UC5.Ability to delete a person using person's name

```
delete from address_book where name="swety";
```

UC6.Ability to Retrieve Person belonging to a City or State from the Address Book

```
select * from address_book where city= 'nagpur' or state = 'maharashtra';  
select * from address_book where city= 'nagpur';
```

UC7.Ability to understand the size of address book by City and State

```
select count(city) , count(state) from address_book;
```

uc8.Ability to retrieve entries sorted alphabetically by Person's name for a given city.

```
select name from address_book order by city ASC;  
select name from address_book order by city DESC;
```

UC9.Ability to identify each Address Book with name and Type.

```
update address_book set type="family" where name="shreya";  
update address_book set type="friends" where name="riya";  
update address_book set type="Profession," where name="puja";
```

**UC10.Ability to get number of contact persons
i.e. count by type**

```
select type,count(type) from address_book group by type;
```

UC11.Ability to add person to both Friend and Family.

```
insert into address_book values("rutu", "lade", "pune","pune", "MH", "440987", "9089890987",  
"a@gmail.com", "family");  
insert into address_book values("rutu", "lade", "pune","pune", "MH", "440987", "9089890987",  
"a@gmail.com", "friends");
```