

### **Uc1.Ability to create a Address Book Service**

```
create database Address_book_serviceDB;
```

```
show databases;
```

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

```
create table Address_book_serviceDB
```

```
(Name varchar(40),
```

```
Lastname varchar(40),
```

```
Address varchar(40),
```

```
City varchar (30),
```

```
State varchar (40),
```

```
Zip int,
```

```
Phone_number bigint,
```

```
Email varchar(40));
```

```
desc Address_book_serviceDB;
```

### **UC3. Ability to insert new Contacts to Address Book**

```
insert into Address_book_serviceDB values("Radha", "Pandey", "Gandhi nagar", "Bhandara", "MH",  
"600200",
```

```
"9090989898","r@gmail.com"),
```

```
("Mugdha", "Bante", "Ram Nagar", "Nagpur", "MH", "600200",
```

```
"8090989898","m@gmail.com");
```

```
insert into Address_book_service (Name, Lastname, Address, City, Zip, Phone_number,Email)
```

```
values("Subodh", "Pandey", "Shiv nagar", "PUNE", "MH", "600200",
```

```
"9090989898","r@gmail.com");
```

```
select * from Address_book_serviceDB;
```

**uc4.Ability to edit existing contact person using their name.**

```
update Address_book_service set Name = "Payal" where Name = "Subodh";
```

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

```
delete from address_book_service where Name = "Payal";
```

**uc6. Ability to Retrieve Person belonging to a City or State from the Address Book**

```
select * from Address_book_service where City = "Bhandara" OR State = "MH";
```

```
select * from Address_book_service where City = "Bhandara";
```

```
select * from Address_book_service where City = "Nagpur";
```

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

```
select count(City) from address_book_service;
```

```
select count(State) from address_book_service;
```

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

```
select Name from address_book_service order by City ASC;
```

```
select Name from address_book_service order by City desc;
```

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

```
alter table address_book_service add Type varchar(30);
```

```
update Address_book_service set Type = "Family" where Name = "Radha";
```

```
update Address_book_service set Type = "Profession," where Name = "Mugdha";
```

```
select * from Address_book_service;
```

```
insert into Address_book_service
```

```
values("Rishabh", "pawar", "Shivaji nagar", "PUNE", "MH", "600200",
```

```
"9090989898", "ri@gmail.com", "Friends");
```

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

select Type, count(\*) from Address\_book\_service group by Type;

#### uc11. Ability to add person to both Friend and Family

insert into Address\_book\_service values("RutuJA", "SINGH", "kurve nagar", "Banglore", "Karnataka", "800200",

"9090989898", "ritu@gmail.com", "Friends");

insert into Address\_book\_service values("RutuJA", "SINGH", "kurve nagar", "Banglore", "Karnataka", "800200",

"9090989898", "ritu@gmail.com", "Family");

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following queries:

```
49 select * from Address_book_service;
50 select Type, count(*) from Address_book_service group by Type;
51 insert into Address_book_service values("RutuJA", "SINGH", "kurve nagar", "Banglore", "Karnataka", "800200",
52 "9090989898", "ritu@gmail.com", "Friends");
53 insert into Address_book_service values("RutuJA", "SINGH", "kurve nagar", "Banglore", "Karnataka", "800200",
54 "9090989898", "ritu@gmail.com", "Family");
```

The Results Grid shows the following data:

Name	Lastname	Address	City	State	Zip	Phone_number	Email	Type
Radha	Pandey	Gandhi nagar	Bhandara	MH	600200	9090989898	r@gmail.com	Family
Mugdha	Bante	Ram Nagar	Nagpur	MH	600200	8090989898	m@gmail.com	Profession
Rishabh	pawar	Shivaji nagar	PUNE	MH	600200	9090989898	ri@gmail.com	Friends
Rutu	Katre	kurve nagar	Banglore	Karnataka	800200	9090989898	ritu@gmail.com	Friends
Ishan	Katre	kurve nagar	Banglore	Karnataka	800200	9090989898	ritu@gmail.com	Family
RutuJA	SINGH	kurve nagar	Banglore	Karnataka	800200	9090989898	ritu@gmail.com	Friends
RutuJA	SINGH	kurve nagar	Banglore	Karnataka	800200	9090989898	ritu@gmail.com	Family

The Output tab shows the following messages:

#	Time	Action	Message	Duration / Fetch
10	04:07:05	insert into Address_book_service (Name, Lastname, Address, City, Zip, Phone_number, Email, Type)	Error Code: 1136. Column count doesn't match value count at row 1	0.000 sec
11	04:07:42	insert into Address_book_service (Name, Lastname, Address, City, Zip, Phone_number, Email, Type)	Error Code: 1136. Column count doesn't match value count at row 1	0.000 sec
12	04:08:02	insert into Address_book_service values("Rishabh", "pawar", "Shivaji nagar", "PUNE", "M...	1 row(s) affected	0.000 sec
13	04:08:28	select * from Address_book_service LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
14	04:09:35	update Address_book_service set Type = "Profession" where Name = "Mugdha"	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
15	04:14:10	insert into Address_book_service values("Rutu", "Katre", "kurve nagar", "Banglore", "Kama...	1 row(s) affected	0.000 sec