ADDRESS BOOK SERVICE

// Ability to create Address Book Service DB

mysql> create database AddressBookService;

Query OK, 1 row affected (0.06 sec)

mysql> show databases;

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

| Database |

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

| addressbookservice |

| information\_schema |

| mysql |

| performance\_schema |

| school |

| sys |

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

6 rows in set (0.00 sec)

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

mysql> use AddressBookService;

Database changed

mysql> create table AddressBook(

-> firstName varchar(20),

-> lastName varchar(20),

-> address varchar(20),

-> city varchar(20),

-> state varchar(20),

-> zipCode int,

-> phoneNumber varchar(13),

-> emailID varchar(20)

-> );

Query OK, 0 rows affected (0.45 sec)

// Ability to insert new Contacts to Address

Bookmysql> insert into AddressBook values('Vivek','Gujale','10-12/10 Shantinagar','Kalamboli','Maharashtra','475456','8974561230','vivek96@gmail.com'),('Sandip','Kengar','25-32/1 Kantinagar','Noida','UP','412451','7894561230','sandip14@gmail.com'),('Sagar','Kalokhe','16-11/16 Gandhinagar','Ahmedabad','Gujarat','654123','9874561230','shaggy56@gmail.com'),('Nilesh','Choudhary','13-21/6 Jantanagar','Jaipur','Rajasthan','439145','7531596543','nil695@gmail.com');

Query OK, 4 rows affected (0.07 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com |

| Sandip | Kengar | 25-32/1 Kantinagar | Noida | UP | 412451 | 7894561230 | sandip14@gmail.com |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com |

| Nilesh | Choudhary | 13-21/6 Jantanagar | Jaipur | Rajasthan | 439145 | 7531596543 | nil695@gmail.com |

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

4 rows in set (0.00 sec)

//Ability to edit existing contact person using their name

mysql> update AddressBook set city = 'Ranchi', state = 'Jharkhand' where firstName = 'Sandip';

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com |

| Nilesh | Choudhary | 13-21/6 Jantanagar | Jaipur | Rajasthan | 439145 | 7531596543 | nil695@gmail.com |

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

4 rows in set (0.00 sec)

// Ability to delete a person using person's name

mysql> delete from AddressBook where firstName = 'Nilesh';

Query OK, 1 row affected (0.07 sec)

mysql> select \* from AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com |

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

3 rows in set (0.00 sec)

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

mysql> select \* from AddressBook where city = 'Ranchi' or state = 'Maharashtra';

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com |

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

2 rows in set (0.00 sec)

mysql> select \* from AddressBook where city = 'Kalamboli' and state = 'Maharashtra';

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com |

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

1 row in set (0.00 sec)

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

mysql> select count(firstName) from AddressBook;

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

| count(firstName) |

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

| 3 |

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

1 row in set (0.09 sec)

// Ability to retrieve entries sorted alphabetically by Person’s name for a given city

mysql> select firstName,lastname from AddressBook order by city;

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

| firstName | lastname |

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

| Sagar | Kalokhe |

| Vivek | Gujale |

| Sandip | Kengar |

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

3 rows in set (0.05 sec)

// Ability to identify each Address Book with name and Type. - Here the type could Family, Friends, Profession, etc

mysql> ALTER TABLE AddressBook ADD friends varchar(20);

Query OK, 0 rows affected (0.52 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE AddressBook ADD family varchar(20);

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE AddressBook ADD profession varchar(20);

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID | friends | family | profession |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com | NULL | NULL | NULL |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com | NULL | NULL | NULL |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com | NULL | NULL | NULL |

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

3 rows in set (0.00 sec)

mysql> UPDATE AddressBook SET family = 'Dipak', friends = 'Sandip', profession = 'DevOps Engineer' WHERE firstName = 'Vivek';

Query OK, 1 row affected (0.11 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT \* FROM AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID | friends | family | profession |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com | Sandip | Dipak | DevOps Engineer |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com | NULL | NULL | NULL |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com | NULL | NULL | NULL |

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

3 rows in set (0.00 sec)

mysql> UPDATE AddressBook SET family = 'Vaibhav', friends = 'Vinayak', profession = 'Developer' WHERE firstName = 'Sandip';';

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE AddressBook SET family = 'Rahul', friends = 'Vivek', profession = 'Chemical Engineer' WHERE firstName = 'Sagar';

Query OK, 1 row affected (0.19 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT \* FROM AddressBook;

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

| firstName | lastName | address | city | state | zipCode | phoneNumber | emailID | friends | family | profession |

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

| Vivek | Gujale | 10-12/10 Shantinagar | Kalamboli | Maharashtra | 475456 | 8974561230 | vivek96@gmail.com | Sandip | Dipak | DevOps Engineer |

| Sandip | Kengar | 25-32/1 Kantinagar | Ranchi | Jharkhand | 412451 | 7894561230 | sandip14@gmail.com | Vinayak | Vaibhav | Developer |

| Sagar | Kalokhe | 16-11/16 Gandhinagar | Ahmedabad | Gujarat | 654123 | 9874561230 | shaggy56@gmail.com | Vivek | Rahul | Chemical Engineer |

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

3 rows in set (0.00 sec)

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

mysql> select count(family) from AddressBook;

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

| count(family) |

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

| 3 |

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

1 row in set (0.00 sec)

**Address Book**

**ER DIAGRAM FOR ADDRESS BOOK SERVICE DB**