AddressBook System
ER Diagram

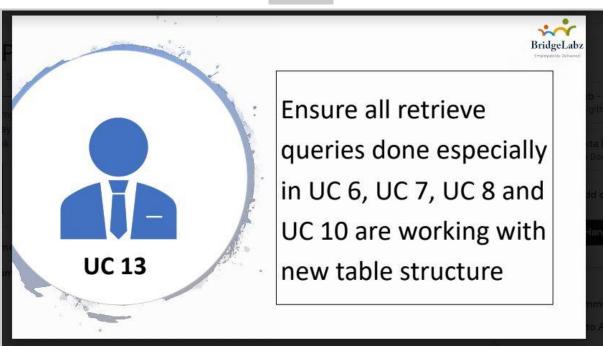## UC12

```
mysql> create table Person_Data
    -> (
    -> person_id int PRIMARY KEY,
    -> name VARCHAR(150),
    -> lastname VARCHAR(150),
    -> address VARCHAR(150),
    -> city VARCHAR(150),
    -> state VARCHAR(150),
    -> zip int(6),
    -> phone_num bigint(10),
    -> email varchar(150)
    -> );
Query OK, 0 rows affected, 2 warnings (2.44 sec)

mysql> select * from Person_Data;
Empty set (0.15 sec)
```

```
mysql> insert into Person_Data VALUES (1 'Prajakta','Bramhe',Ashtyavinayak colony, 'Nagpur','Maharashtra',440034,8149240833,'14prajakt
a@gmail.com');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right
 syntax to use near ''Prajakta','Bramhe',Ashtyavinayak colony, 'Nagpur','Maharashtra',440034,81492408' at line 1
mysql> insert into Person_Data VALUES (1, 'Prajakta','Bramhe', 'Ashtyavinayak colony', 'Nagpur','Maharashtra',440034,8149240833,'14pra
jakta@gmail.com');
Query OK, 1 row affected (0.18 sec)

mysql> select * from Person_Data;
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+----------------------+
| person_id | name     | lastname | address             | city   | state       | zip    | phone_num  | email                |
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+----------------------+
|         1 | Prajakta | Bramhe   | Ashtyavinayak colony | Nagpur | Maharashtra | 440034 | 8149240833 | 14prajakta@gmail.com |
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+----------------------+
1 row in set (0.20 sec)

mysql> insert into Person_Data VALUES (1, 'sanket','Zade','LakshmiNagar', 'Nagpur','Maharashtra',445534,7083261675,'sanketbramhe@gmail
.com');
ERROR 1062 (23000): Duplicate entry '1' for key 'person_data.PRIMARY'
mysql> insert into Person_Data VALUES (2, 'sanket','Zade','LakshmiNagar', 'Nagpur','Maharashtra',445534,7083261675,'sanketbramhe@gmail
.com');
Query OK, 1 row affected (0.23 sec)

mysql> insert into Person_Data VALUES (3, 'ekta','shende','gopal nagar', 'Amravati','Telangana',445589,7087895623,'ekta@gmail.com');
Query OK, 1 row affected (0.07 sec)

mysql> insert into Person_Data VALUES (4, 'ankush','bahekar','abhyankar nagar', 'ahmadabad','gujarat',445589,7087895689,'ankush@gmail.
com');
Query OK, 1 row affected (0.19 sec)
```

```
mysql> insert into Person_Data VALUES (4, 'ankush','bahekar','abhyankar nagar', 'ahmadabad','gujarat',445589,7087895689,'ankush@gmail.
com');
Query OK, 1 row affected (0.19 sec)

mysql> select * from Person_Data;
+-----------+----------+----------+---------------------+-----------+-------------+--------+------------+----------------------+
| person_id | name     | lastname | address             | city      | state       | zip    | phone_num  | email                |
+-----------+----------+----------+---------------------+-----------+-------------+--------+------------+----------------------+
|         1 | Prajakta | Bramhe   | Ashtyavinayak colony | Nagpur    | Maharashtra | 440034 | 8149240833 | 14prajakta@gmail.com |
|         2 | sanket   | Zade     | LakshmiNagar        | Nagpur    | Maharashtra | 445534 | 7083261675 | sanketbramhe@gmail.com |
|         3 | ekta     | shende   | gopal nagar         | Amravati  | Telangana   | 445589 | 7087895623 | ekta@gmail.com       |
|         4 | ankush   | bahekar  | abhyankar nagar     | ahmadabad | gujarat     | 445589 | 7087895689 | ankush@gmail.com     |
+-----------+----------+----------+---------------------+-----------+-------------+--------+------------+----------------------+
4 rows in set (0.00 sec)

mysql>
```

```
mysql> create table Type;
ERROR 4028 (HY000): A table must have at least one visible column.
mysql> create table Type
    -> (
    -> type_id int PRIMARY KEY,
    -> Type_name varchar(150);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right
 syntax to use near '' at line 4
mysql> create table Type
    -> (
    -> type_id int PRIMARY KEY,
    -> Type_name varchar(150)
    -> );
Query OK, 0 rows affected (1.81 sec)
```

```
mysql> insert into Type VALUES (10,'Friend');
Query OK, 1 row affected (0.12 sec)

mysql> insert into Type VALUES (20,'family');
Query OK, 1 row affected (0.23 sec)

mysql> insert into Type VALUES (30,'family');
Query OK, 1 row affected (0.18 sec)

mysql> insert into Type VALUES (40,'friend');
Query OK, 1 row affected (0.08 sec)

mysql> select * from Type;
+---------+-----------+
| type_id | Type_name |
+---------+-----------+
|      10 | Friend    |
|      20 | family    |
|      30 | family    |
|      40 | friend    |
+---------+-----------+
4 rows in set (0.00 sec)
```

```
mysql> create table person_type
    -> (
    -> person_id int,
    -> FOREIGN KEY (person_id) REFERENCES person_data(person_id)
    -> )
    -> ^C
mysql> create table person_type
    -> (
    -> person_id int,
    -> FOREIGN KEY (person_id) REFERENCES person_data(person_id),
    -> type_id int,
    -> FOREIGN KEY (type_id) REFERENCES Type(type_id)
    -> );
Query OK, 0 rows affected (2.26 sec)

mysql> select * from person_type;
Empty set (0.14 sec)
```

```
mysql> select * from person_type;
Empty set (0.14 sec)

mysql> insert into person_type VALUES (101,1001);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`address_book_service`.`person_type`, CONSTRAINT
`person_type_ibfk_1` FOREIGN KEY (`person_id`) REFERENCES `person_data` (`person_id`))
mysql> insert into  person_type VALUES (1,10);
Query OK, 1 row affected (0.08 sec)

mysql> insert into  person_type VALUES (2,20);
Query OK, 1 row affected (0.30 sec)

mysql> insert into  person_type VALUES (3,30);
Query OK, 1 row affected (0.06 sec)

mysql> insert into  person_type VALUES (4,40);
Query OK, 1 row affected (0.17 sec)

mysql> select * from person_type;
+-----------+---------+
| person_id | type_id |
+-----------+---------+
|         1 |      10 |
|         2 |      20 |
|         3 |      30 |
|         4 |      40 |
+-----------+---------+
4 rows in set (0.00 sec)
```

UC13

Ensure all retrieve queries done especially in UC 6, UC 7, UC 8 and UC 10 are working with new table structure

```
mysql> select * from person_data where city = 'Nagpur' OR state = 'Maharashtra';
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+------------------------+
| person_id | name     | lastname | address             | city   | state       | zip    | phone_num  | email                  |
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+------------------------+
|         1 | Prajakta | Bramhe   | Ashtyavinayak colony | Nagpur | Maharashtra | 440034 | 8149240833 | 14prajakta@gmail.com   |
|         2 | sanket   | Zade     | LakshmiNagar        | Nagpur | Maharashtra | 445534 | 7083261675 | sanketbramhe@gmail.com |
+-----------+----------+----------+---------------------+--------+-------------+--------+------------+------------------------+
2 rows in set (0.33 sec)

mysql>
```

```
mysql> select (count), count(state) from person_data;
ERROR 1054 (42S22): Unknown column 'count' in 'field list'
mysql> select COUNT(CITY), count(state) from person_data;
+-------------+--------------+
| COUNT(CITY) | count(state) |
+-------------+--------------+
|           4 |            4 |
+-------------+--------------+
1 row in set (0.10 sec)

mysql>
```

```
mysql> use address_book_service;
Database changed
mysql> select name from person_data order by city DESC;
+----------+
| name     |
+----------+
| Prajakta |
| sanket   |
| ekta     |
| ankush   |
+----------+
4 rows in set (0.02 sec)

mysql> select name from person_data order by city asc;
+----------+
| name     |
+----------+
| ankush   |
| ekta     |
| Prajakta |
| sanket   |
+----------+
4 rows in set (0.00 sec)

mysql>
```