

Employee Payroll Problem

UC1 :

Query to create database

```
mysql> create database Address_Book;  
Query OK, 1 row affected (0.02 sec)
```

UC2 :

Query to create table with attributes

```
mysql> CREATE TABLE Address_Book  
-> (  
-> firstName VARCHAR(150) NOT NULL,  
-> lastName VARCHAR(150) NOT NULL,  
-> address VARCHAR(150) NOT NULL,  
-> city VARCHAR(150) NOT NULL,  
-> state VARCHAR(150) NOT NULL,  
-> zip INT(6) unsigned NOT NULL,  
-> phoneNumber INT(10) unsigned NOT NULL,  
-> email VARCHAR(150) NOT NULL  
-> );  
Query OK, 0 rows affected, 2 warnings (0.09 sec)
```

UC3:

Query to add details into table

```
mysql> INSERT INTO Address_Book ( firstName, lastName, address, city, state, zip, phoneNumber, email) VALUES  
-> ('Kelly', 'Kapowski', '16 Scranton Ave', 'Scranton', 'PA', 18503, 8005555555,  
'kelly.kapowski@gmail.com'),  
-> ('Jesse', 'Spano', '25 First Streat', 'Cambridge', 'MA', 21430, 888427768,  
'jesse.spano@hotmail.com');  
Query OK, 2 rows affected (0.00 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Address_Book;
```

| firstName | lastName | address | city | state | zip | phoneNumber | email |
|-----------|----------|-----------------|----------|-------|-------|-------------|--------------------------|
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 8005555555 | kelly.kapowski@gmail.com |

```
| Jesse | Spano | 25 First Streat | Cambridge | MA | 21430 | 888427768 |
jesse.spano@hotmail.com |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

UC4:

Query to edit existing contact details using name

```
mysql> update Address_Book set address = '10 Streat' where firstName = 'Jesse';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM Address_Book;
+-----+-----+-----+-----+-----+-----+-----+
| firstName | lastName | address | city | state | zip | phoneNumber | email |
+-----+-----+-----+-----+-----+-----+-----+
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 8005555555 | kelly.kapowski@gmail.com |
| Jesse | Spano | 10 Streat | Cambridge | MA | 21430 | 888427768 | jesse.spano@hotmail.com |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

UC5:

Query to delete contact using persons name

```
mysql> DELETE FROM Address_Book where firstName = 'Jesse';
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM Address_Book;
+-----+-----+-----+-----+-----+-----+-----+
| firstName | lastName | address | city | state | zip | phoneNumber | email |
+-----+-----+-----+-----+-----+-----+-----+
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 8005555555 | kelly.kapowski@gmail.com |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

UC6:

UC7:

Query to understand the size of address book by city or state

```
mysql> SELECT * FROM Address_Book;
```

| firstName | lastName | address | city | state | zip | phoneNumber | email |
|-----------|----------|----------------------|----------------|-------|-------|-------------|---------------------------|
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 800555555 | kelly.kapowski@gmail.com |
| Lisa | Turtle | 2164 Garden Brook Dr | Farmers Branch | TX | 68430 | 852427768 | lisaturle@gmail.com |
| Zach | Moris | 25 First Streat | Cambridge | MA | 21430 | 888427768 | zack.moris@hotmail.com |
| Albert | Slater | 10 First Streat | Cambridge | MA | 21430 | 215842776 | albert@gmail.com |
| Samuel | Powers | 10 First Streat | Farmers Branch | TX | 68430 | 215842776 | samuel.powers@hotmail.com |

```
mysql> SELECT COUNT(firstName) FROM Address_Book where city = 'Farmers Branch';
```

| COUNT(firstName) |
|------------------|
| 2 |

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(firstName) FROM Address_Book where state = 'PA';
```

| COUNT(firstName) |
|------------------|
| 1 |

1 row in set (0.00 sec)

UC8:

Query to sorted address book by city alphabetically

```
mysql> SELECT * from Address_Book ORDER BY city ASC;
```

| firstName | lastName | address | city | state | zip | phoneNumber | email |
|-----------|----------|---------|------|-------|-----|-------------|-------|
|-----------|----------|---------|------|-------|-----|-------------|-------|

```
| Zach | Moris | 25 First Streat | Cambridge | MA | 21430 | 888427768 |
zack.moris@hotmail.com |
| Albert | Slater | 10 First Streat | Cambridge | MA | 21430 | 215842776 | albert@gmail.com
|
| Lisa | Turtle | 2164 Garden Brook Dr | Farmers Branch | TX | 68430 | 852427768 |
lisaturle@gmail.com |
| Samuel | Powers | 10 First Streat | Farmers Branch | TX | 68430 | 215842776 |
samuel.powers@hotmail.com |
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 800555555 |
kelly.kapowski@gmail.com |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

UC9:

Query to add type field in the Address_Book Table

```
mysql> ALTER TABLE Address_Book ADD type VARCHAR(150) AFTER email;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Address_Book;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| firstName | lastName | address | city | state | zip | phoneNumber | email |
type |
+-----+-----+-----+-----+-----+-----+-----+
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 800555555 |
kelly.kapowski@gmail.com | NULL |
| Lisa | Turtle | 2164 Garden Brook Dr | Farmers Branch | TX | 68430 | 852427768 |
lisaturle@gmail.com | NULL |
| Zach | Moris | 25 First Streat | Cambridge | MA | 21430 | 888427768 |
zack.moris@hotmail.com | NULL |
| Albert | Slater | 10 First Streat | Cambridge | MA | 21430 | 215842776 | albert@gmail.com
| NULL |
| Samuel | Powers | 10 First Streat | Farmers Branch | TX | 68430 | 215842776 |
samuel.powers@hotmail.com | NULL |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> update Address_Book set type = 'Family' where firstName = 'Kelly' or firstName = 'Zach';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
mysql> update Address_Book set type = 'Friedns' where firstName = 'Lisa';
Query OK, 1 row affected (0.01 sec)
```

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> update Address_Book set type = 'Profession' where firstName = 'Albert' or firstName = 'Samuel';
```

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> SELECT * FROM Address_Book;
```

| firstName | lastName | address | city | state | zip | phoneNumber | email | type |
|-----------|----------|----------------------|----------------|-------|-------|-------------|---------------------------|------------|
| Kelly | Kapowski | 16 Scranton Ave | Scranton | PA | 18503 | 8005555555 | kelly.kapowski@gmail.com | Family |
| Lisa | Turtle | 2164 Garden Brook Dr | Farmers Branch | TX | 68430 | 852427768 | lisaturle@gmail.com | Friedns |
| Zach | Moris | 25 First Streat | Cambridge | MA | 21430 | 888427768 | zack.moris@hotmail.com | Family |
| Albert | Slater | 10 First Streat | Cambridge | MA | 21430 | 215842776 | albert@gmail.com | Profession |
| Samuel | Powers | 10 First Streat | Farmers Branch | TX | 68430 | 215842776 | samuel.powers@hotmail.com | Profession |

5 rows in set (0.00 sec)

UC10:

Query to get number of persons count by type

```
mysql> SELECT COUNT(firstName) FROM Address_Book where type = 'Family';
```

| COUNT(firstName) |
|------------------|
| 2 |

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(firstName) FROM Address_Book where type = 'Friedns';
```

| COUNT(firstName) |
|------------------|
| 1 |

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(firstName) FROM Address_Book where type = 'Profession';
```

```
+-----+
| COUNT(firstName) |
+-----+
|          2 |
+-----+
```

1 row in set (0.00 sec)

UC11:

Query to add a person to both family and friends

```
mysql> INSERT INTO Address_Book ( firstName, lastName, address, city, state, zip, phoneNumber,
email, type) VALUES
```

```
-> ('Lisa', 'Turtle', '2164 Garden Brook Dr', 'Farmers Branch', 'TX', 68430, 852427768,
'lisaturle@gmail.com', 'Family');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> SELECT * FROM Address_Book;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| firstName | lastName | address          | city        | state | zip  | phoneNumber | email          |
type      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| Kelly    | Kapowski | 16 Scranton Ave  | Scranton    | PA    | 18503 | 8005555555 | kelly.kapowski@gmail.com | Family |
| Lisa     | Turtle   | 2164 Garden Brook Dr | Farmers Branch | TX    | 68430 | 852427768 | lisaturle@gmail.com      | Friends |
| Zach     | Moris    | 25 First Streat  | Cambridge    | MA    | 21430 | 888427768 | zack.moris@hotmail.com   | Family |
| Albert   | Slater   | 10 First Streat   | Cambridge    | MA    | 21430 | 215842776 | albert@gmail.com         | Profession |
| Samuel   | Powers   | 10 First Streat   | Farmers Branch | TX    | 68430 | 215842776 | samuel.powers@hotmail.com | Profession |
| Lisa     | Turtle   | 2164 Garden Brook Dr | Farmers Branch | TX    | 68430 | 852427768 | lisaturle@gmail.com      | Family |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```