Date: 15/04/2024

Task

1. Create a table Customer with columns cid and cname. cid should be a primary key in the table and cname should be NOT NULL.

2. Insert three customer data into the table.

3. Add columns age, city and phnum. Age > 20, city default value should be 'Bangalore' and phnum should be unique.

4. Turn on the transaction on.

```
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
```

5. Insert another two customer data into the table without city value.

```
mysql> INSERT INTO Customer (cid, cname, age, phno) VALUES ('C04', 'Jodie', 21, '1234567890');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Customer (cid, cname, age, phno) VALUES ('C05', 'Liam', 22, '2345678901');
Query OK, 1 row affected (0.00 sec)
```

6. Display data from the table.

```
mysql> SELECT * FROM Customer;
 cid | cname
                | age | city
 C01
                   NULL
                           Bengaluru |
                                          NULL
        Sam
 C02 |
                           Bengaluru
 C03 | Ben
C04 | Jodie
                   NULL
21
                           Bengaluru
                                         NULL
1234567890
                           Bengaluru | 1234567890
Bengaluru | 2345678901
 rows in set (0.00 sec)
```

7. Create a savepoint 'ins'.

```
mysql> SAVEPOINT ins;
Query OK, 0 rows affected (0.00 sec)
```

8. Update the first age of all the customers.

```
mysql> UPDATE Customer SET age = 23 WHERE cid = 'C01';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Customer SET age = 24 WHERE cid = 'C02';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Customer SET age = 22 WHERE cid = 'C03';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

Rows matched: 1 Changed: 1 Warnings: 0
```

9. Display data from the table.

```
mysql> SELECT * FROM Customer;

| cid | cname | age | city | phno |
| col | Sam | 23 | Bengaluru | NULL |
| C02 | Daniel | 24 | Bengaluru | NULL |
| C03 | Ben | 22 | Bengaluru | NULL |
| C04 | Jodie | 21 | Bengaluru | 1234567890 |
| C05 | Liam | 22 | Bengaluru | 2345678901 |
| col | col
```

10. Create savepoint 'up1';

```
mysql> SAVEPOINT up1;
Query OK, 0 rows affected (0.00 sec)
```

11. Update all the customer's city of the first three customers.

```
mysql> UPDATE Customer SET city = 'Ujire' WHERE cid = 'C01';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Customer SET city = 'Udupi' WHERE cid = 'C02';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Customer SET city = 'Mangalore' WHERE cid = 'C03';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

Rows matched: 1 Changed: 1 Warnings: 0
```

12. Display data from the table.

```
mysql> SELECT * FROM Customer;

| cid | cname | age | city | phno |
| c01 | Sam | 23 | Ujire | NULL |
| c02 | Daniel | 24 | Udupi | NULL |
| c03 | Ben | 22 | Mangalore | NULL |
| c04 | Jodie | 21 | Bengaluru | 1234567890 |
| c05 | Liam | 22 | Bengaluru | 2345678901 |
| cos |
```

13. Create savepoint 'up2'.

```
mysql> SAVEPOINT up2;
Query OK, 0 rows affected (0.00 sec)
```

14. Roll back to up1.

```
mysql> ROLLBACK TO up1;
Query OK, 0 rows affected (0.00 sec)
```

15. Display data from the table.

```
mysql> SELECT * FROM Customer;

| cid | cname | age | city | phno |
| C01 | Sam | 23 | Bengaluru | NULL |
| C02 | Daniel | 24 | Bengaluru | NULL |
| C03 | Ben | 22 | Bengaluru | NULL |
| C04 | Jodie | 21 | Bengaluru | 1234567890 |
| C05 | Liam | 22 | Bengaluru | 2345678901 |
| C08 | Set (0.00 sec)
```

16. Commit.

```
mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)
```

17. Display data from the table.

```
city
cid | cname
                age
                                    phno
                       Bengaluru
C02
C03
      Daniel
                       Bengaluru
                                    NULL
                       Bengaluru
      Ben
      Jodie
Liam
                       Bengaluru
                       Bengaluru |
                                    2345678901
rows in set (0.00 sec)
```

18. Turn off the transactions.

mysql> SET AUTOCOMMIT = 1; Query OK, 0 rows affected (0.01 sec)