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.

mysql> create table Customer (c\_id int primary key,cname varchar(20) not null); Query OK, 0 rows affected (0.06 sec).

2. Insert three customer data into the table.

```
mysql> insert into customer (c_id,cname) values (01,'Ramesh'),(02,'Savitha'),(03,'Saritha');
    Query OK, 3 rows affected (0.02 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from customer;

+-----+

| c_id | cname |

+-----+

| 01 | Ramesh|

| 02 | Savitha |

| 03 | Saritha |

+-----+

3 rows in set (0.00 sec)
```

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> set autocommit=0; Query OK, 0 rows affected (0.01 sec)

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

mysql> insert into customer (c\_id ,cname,age,phnum) values (04,'Vanitha',24,94817686),(05,'Mani',22,77950413);

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

6. Display data from the table.

```
mysql> select * from customer;
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | NULL | banglore | NULL |
| 02 | Savitha | NULL | banglore | NULL |
| 03 | Saritha | NULL | banglore | NULL |
| 04 | Vanitha | 24 | banglore | 94817686 |
| 05 | Mani | 22 | banglore | 77950413 |
+----+
5 rows in set (0.00 sec)
```

7. Create a savepoint 'ins'.

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

### 8. Update the first age of all the customers.

```
mysql> update customer set age=27 where c_id=01;
Query OK, 1 row affected (0.01 sec)
```

Rows matched: 1 Changed: 1 Warnings: 0

### 9. Display data from the table.

```
mysql> select *from customer;
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | 27 | banglore | NULL |
| 02 | Savitha | NULL | banglore | NULL |
| 03 | Saritha | NULL | banglore | NULL |
| 04 | Vanitha | 24 | banglore | 94817686 |
| 05 | Mani | 22 | banglore | 77950413 |
```

## 10. Create savepoint 'up1';

```
mysql> savepoint ins;
```

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='Durga' where c_id=03;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customer set city='Padil' where c\_id=02;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update customer set city='Shimoga' where c id=01;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#### 12. Display data from the table.

```
mysql> select *from customer;
```

```
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | 27 | Shimoga | NULL |
| 02 | Savitha | NULL | Padil | NULL |
| 03 | Saritha | NULL | Durga | NULL |
| 04 | Vanitha | 24 | banglore | 94817686 |
```

## 13. Create savepoint 'up2'.

mysql> savepoint up2;

Query OK, 0 rows affected (0.00 sec

| 05 | Mani | 22 | banglore | 77950413 |

### 14. Roll back to up1.

mysql> savepoint up2;

Query OK, 0 rows affected (0.00 sec)

mysql> rollback to ins;

Query OK, 0 rows affected (0.00 sec)

### 15. Display data from the table.

mysql> savepoint up1;

Query OK, 0 rows affected (0.00 sec)

mysql> update customer set city='Bdvt' where c\_id=03;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> savepoint up2;
  Query OK, 0 rows affected (0.00 sec)
  mysql> select *from customer;
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | 27 | Shimoga | NULL |
| 02 | Savitha | NULL | Padil | NULL |
| 03 | Saritha | NULL | Bdvt | NULL |
| 04 | Vanitha | 24 | banglore | 94817686 |
| 05 | Mani | 22 | banglore | 77950413 |
 5 rows in set (0.00 sec)
 mysql> rollback to up1;
 Query OK, 0 rows affected (0.00 sec)
 mysql> select *from customer;
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | 27 | Shimoga | NULL |
| 02 | Savitha | NULL | Padil | NULL |
| 03 | Saritha | NULL | banglore | NULL |
| 04 | Vanitha | 24 | banglore | 94817686 |
 | 05 | Mani | 22 | banglore | 77950413 |
 5 rows in set (0.00 sec)
```

#### 16. Commit.

mysql> commit;

Query OK, 0 rows affected (0.01 sec).

# 17. Display data from the table.

```
mysql> select *from customer;
```

```
+----+
| c_id | cname | age | city | phnum |
+----+
| 01 | Ramesh | 27 | Shimoga | NULL |
| 02 | Savitha | NULL | Padil | NULL |
```

| 03 | Saritha | NULL | banglore | NULL |

| 04 | Vanitha | 24 | banglore | 94817686 |

| 05 | Mani | 22 | banglore | 77950413 |

5 rows in set (0.00 sec)

#### 18. Turn off the transactions.

mysql> set autocommit=1;

Query OK, 0 rows affected (0.00 sec)