

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.

```
mysql> SELECT * FROM emp.customer;
+-----+-----+
| cid | cname |
+-----+-----+
| 1 | bhavya |
| 2 | shraddha |
| 3 | kavya |
+-----+-----+
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.

```
mysql> alter table customer add column (age INT CHECK (age>20),city VARCHAR(50) DEFAULT 'BANGALORE',phnum VARCHAR(20)
UNIQUE);
Query OK, 3 rows affected (0.09 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> update customer set age=21,phnum ='6754123896' where cid=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update customer set age=22,phnum ='2224123896' where cid=1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from sh.customer;
+-----+-----+-----+-----+-----+
| cid | cname | age | city | phnum |
+-----+-----+-----+-----+-----+
| 1 | bhavya | 22 | Bangalore | 2224123896 |
| 2 | navya | 21 | Bangalore | 6754123896 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

4. Turn on the transaction on.

```
mysql> set autocommit=0;
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,phnum) values (4,'sujatha',23,'4562145687'),(5,'pavana',25,'5778412000');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

6. Display data from the table.

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+
| cid | cname | age | city | phnum |
+-----+-----+-----+-----+-----+
| 1 | bhavya | 22 | Bangalore | 2224123896 |
| 2 | navya | 21 | Bangalore | 6754123896 |
| 3 | sanvi | 23 | Bangalore | 4568712369 |
| 4 | janvi | 24 | Bangalore | 5411200369 |
+-----+-----+-----+-----+-----+
4 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.

9. Display data from the table.

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='nitte' where cid=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update customer set city='kundapura' where cid=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update customer set city='moodbidri' where cid=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

12. Display data from the table.

```
mysql> select * from sh.customer;
+-----+-----+-----+-----+-----+
| cid | cname | age | city | phnum |
+-----+-----+-----+-----+-----+
| 1 | bhavya | 22 | kundapura | 2224123896 |
| 2 | navya | 21 | nitte | 6754123896 |
| 3 | sanvi | 23 | moodbidri | 4568712369 |
| 4 | janvi | 24 | Bangalore | 5411200369 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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	phnum
1	bhavya	22	Bangalore	2224123896
2	navya	21	Bangalore	6754123896
3	sanvi	23	Bangalore	4568712369
4	janvi	24	Bangalore	5411200369

```
4 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;
```

cid	cname	age	city	phnum
1	bhavya	22	Bangalore	2224123896
2	navya	21	Bangalore	6754123896
3	sanvi	23	Bangalore	4568712369
4	janvi	24	Bangalore	5411200369

```
4 rows in set (0.00 sec)
```

18. Turn off the transactions.

```
mysql> commit;
```

Query OK, 0 rows affected (0.00 sec)