**ASSIGNMENT (15/04/2024)**  
  
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.  
->>CREATE TABLE Customer (

cid INT PRIMARY KEY,

cname VARCHAR(255) NOT NULL);  
  
 DESC customer;

+-------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+--------------+------+-----+---------+-------+

| cid | int | NO | PRI | NULL | |

| cname | varchar(255) | NO | | NULL | |

+-------+--------------+------+-----+---------+-------+

2 rows in set (0.05 sec)  
  
  
2.Insert three customer data into the table.  
->>INSERT INTO Customer (cid, cname) VALUES

-> (1, 'Sony'),

-> (2, 'Smitha'),

-> (3, 'Kishor');  
->> select \* from customer;

+-----+--------+

| cid | cname |

+-----+--------+

| 1 | Sony |

| 2 | Smitha |

| 3 | Kishor |

+-----+--------+  
  
  
3.Add columns age, city and phnum. Age &gt; 20, city default value should

be ‘Bangalore’ and phnum should be unique.

mysql> ALTER TABLE Customer

-> ADD COLUMN age INT CHECK (age > 20),

-> ADD COLUMN city VARCHAR(100) DEFAULT 'Bangalore',

-> ADD COLUMN phnum VARCHAR(20) UNIQUE;

Query OK, 3 rows affected (0.19 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from customer;

+-----+--------+------+-----------+-------+

| cid | cname | age | city | phnum |

+-----+--------+------+-----------+-------+

| 1 | Sony | NULL | Bangalore | NULL |

| 2 | Smitha | NULL | Bangalore | NULL |

| 3 | Kishor | NULL | Bangalore | NULL |

+-----+--------+------+-----------+-------+

3 rows in set (0.00 sec)  
  
  
4. Turn on the transaction on.  
->>START TRANSACTION;

Query OK, 0 rows affected (0.00 sec)  
  
5. Insert another two customer data into the table without city value.

-->> INSERT INTO Customer (cid, cname, age, phnum) VALUES

-> (4, 'Aathmi', 25, '1234567890'),

-> (5, 'Soujanya', 30, '9876543210');

Query OK, 2 rows affected (0.05 sec)

Records: 2 Duplicates: 0 Warnings: 0  
  
  
6. Display data from the table.  
->>select \* from customer;

+-----+----------+------+-----------+------------+

| cid | cname | age | city | phnum |

+-----+----------+------+-----------+------------+

| 1 | Sony | NULL | Bangalore | NULL |

| 2 | Smitha | NULL | Bangalore | NULL |

| 3 | Kishor | NULL | Bangalore | NULL |

| 4 | Aathmi | 25 | Bangalore | 1234567890 |

| 5 | Soujanya | 30 | Bangalore | 9876543210 |

+-----+----------+------+-----------+------------+

5 rows in set (0.00 sec)  
  
7. Create a savepoint ‘ins’.  
-->> SAVEPOINT ins;

Query OK, 0 rows affected (0.00 sec)  
  
8.Update the first age of all the customers.  
 -->>UPDATE Customer

-> SET age = 30;

Query OK, 4 rows affected (0.04 sec)

Rows matched: 5 Changed: 4 Warnings: 0  
  
  
9.Display data from the table.  
mysql> select \* from customer;

+-----+----------+------+-----------+------------+

| cid | cname | age | city | phnum |

+-----+----------+------+-----------+------------+

| 1 | Sony | 30 | Bangalore | NULL |

| 2 | Smitha | 30 | Bangalore | NULL |

| 3 | Kishor | 30 | Bangalore | NULL |

| 4 | Aathmi | 30 | Bangalore | 1234567890 |

| 5 | Soujanya | 30 | Bangalore | 9876543210 |

+-----+----------+------+-----------+------------+

5 rows in set (0.00 sec)  
  
10.Create savepoint ‘up1’;  
->>SAVEPOINT up1;  
  
11.Update all the customer’s city of the first three customers.  
->>1235 (42000): This version of MySQL doesn't yet support 'LIMIT & IN/ALL/ANY/SOME subquery'

mysql> UPDATE Customer c

-> JOIN (SELECT cid FROM Customer LIMIT 3) AS sub

-> ON c.cid = sub.cid

-> SET c.city = 'NewCity';

Query OK, 3 rows affected (0.04 sec)

Rows matched: 3 Changed: 3 Warnings: 0  
  
12.Display data from the table.

->>mysql> select \* from customer;

+-----+----------+------+-----------+------------+

| cid | cname | age | city | phnum |

+-----+----------+------+-----------+------------+

| 1 | Sony | 30 | NewCity | NULL |

| 2 | Smitha | 30 | NewCity | NULL |

| 3 | Kishor | 30 | NewCity | NULL |

| 4 | Aathmi | 30 | Bangalore | 1234567890 |

| 5 | Soujanya | 30 | Bangalore | 9876543210 |

+-----+----------+------+-----------+------------+

5 rows in set (0.00 sec)  
  
13.Create savepoint ‘up2’.  
->>SAVEPOINT up2;  
  
14. Roll back to up1.  
->ROLLBACK TO up1;  
  
16. Commit.  
->>mysql> commit;

Query OK, 0 rows affected (0.00 sec)  
  
transation end?  
 SET autocommit = 1;

Query OK, 0 rows affected (0.04 sec)