Assignment 2

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PRN No- 03

Subject-DBMS (SQL LAB)

3. Insert,update and delete different values and check

```
mysql> delete from tasks where task_id=1;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from tasks;
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
| task_id | title | start_date | due_date | status | priority | description | created_at          |
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
|       1 | xyz   | NULL       | NULL     |      2 |        2 | NULL        | 2023-09-25 15:32:36 |
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
1 row in set (0.00 sec)

mysql>
```

```
mysql> update tasks set title='xyz', status=2 where task_id=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from tasks;
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
| task_id | title | start_date | due_date | status | priority | description | created_at          |
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
|       1 | abc   | NULL       | NULL     |      1 |        2 | NULL        | 2023-09-25 15:32:36 |
+---------+-------+------------+----------+--------+----------+-------------+---------------------+
1 row in set (0.00 sec)

mysql>
```

```
mysql> insert into tasks (task_id,title,status,priority) values (1,'abc',1,2
);
Query OK, 1 row affected (0.01 sec)
```

2. Create a table checklists with the following data

```
mysql> create table if not exists checklists (todo_id int auto_increment pri
mary key, taskid int,todo varchar(255) not null,foreign key(taskid) referenc
es tasks(task_id));
Query OK, 0 rows affected (0.01 sec)

mysql> desc checklists;
+----------+--------------+------+-----+---------+----------------+
| Field    | Type         | Null | Key | Default | Extra          |
+----------+--------------+------+-----+---------+----------------+
| todo_id  | int          | NO   | PRI | NULL    | auto_increment |
| taskid   | int          | YES  | MUL | NULL    |                |
| todo     | varchar(255) | NO   |     | NULL    |                |
+----------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql>
```

1. Create a table tasks with the following data

```
mysql> create table if not exists tasks (task_id int auto_increment primary
key,title varchar(255) not null,start_date date,due_date date,status tinyint
 not null,priority tinyint not null, description text, created_at timestamp
default current_timestamp);
Query OK, 0 rows affected (0.02 sec)

mysql> desc tasks;
+-------------+--------------+------+-----+-------------------+--------------------+
| Field       | Type         | Null | Key | Default           | Extra              |
+-------------+--------------+------+-----+-------------------+--------------------+
| task_id     | int          | NO   | PRI | NULL              | auto_increment     |
| title       | varchar(255) | NO   |     | NULL              |                    |
| start_date  | date         | YES  |     | NULL              |                    |
| due_date    | date         | YES  |     | NULL              |                    |
| status      | tinyint      | NO   |     | NULL              |                    |
| priority    | tinyint      | NO   |     | NULL              |                    |
| description | text         | YES  |     | NULL              |                    |
| created_at  | timestamp    | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED  |
+-------------+--------------+------+-----+-------------------+--------------------+
8 rows in set (0.01 sec)
```

6. Create a table products with the following data

```
mysql> select * from product;
+-----------+-------------+------------+
| productid | productname | categoryid |
+-----------+-------------+------------+
|         1 | a           |          1 |
+-----------+-------------+------------+
1 row in set (0.00 sec)

mysql> update categories set categoryid=9 where categoryid=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from product;
+-----------+-------------+------------+
| productid | productname | categoryid |
+-----------+-------------+------------+
|         1 | a           |          9 |
+-----------+-------------+------------+
1 row in set (0.00 sec)

mysql> create table product (productid int auto_increment primary key,produc
tname varchar(255) not null,categoryid int not null,foreign key(categoryid)
references categories(categoryid) on update cascade);
Query OK, 0 rows affected (0.01 sec)

mysql> desc product;
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| productid   | int          | NO   | PRI | NULL    | auto_increment |
| productname | varchar(255) | NO   |     | NULL    |                |
| categoryid  | int          | NO   | MUL | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql>
```

```
mysql> delete from categories where categoryid=5;
Query OK, 1 row affected (0.00 sec)

mysql> select * from product;
+-----------+-------------+------------+
| productid | productname | categoryid |
+-----------+-------------+------------+
|         1 | a           |          1 |
|         2 | y           |          4 |
+-----------+-------------+------------+
2 rows in set (0.00 sec)
```
fo
```
mysql> create table product (productid int auto_increment primary key,produc
tname varchar(255) not null,categoryid int not null,foreign key(categoryid)
references categories(categoryid) on delete cascade);
Query OK, 0 rows affected (0.02 sec)

mysql> desc product;
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| productid   | int          | NO   | PRI | NULL    | auto_increment |
| productname | varchar(255) | NO   |     | NULL    |                |
| categoryid  | int          | NO   | MUL | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)
```

5. Create a table categories with the following data

```
mysql> insert into categories (categoryid,categoryname) values (1,'a');
Query OK, 1 row affected (0.00 sec)

mysql> select * from categories;
+------------+--------------+
| categoryid | categoryname |
+------------+--------------+
|          1 | a            |
+------------+--------------+
1 row in set (0.00 sec)
```

```
mysql> insert into categories (categoryname) values('b'),('c'),('d'),('e'),(
'f');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from categories;
+------------+--------------+
| categoryid | categoryname |
+------------+--------------+
|          1 | a            |
|          2 | b            |
|          3 | c            |
|          4 | d            |
|          5 | e            |
|          6 | f            |
+------------+--------------+
6 rows in set (0.00 sec)
```

```
mysql> create table categories (categoryid int auto_increment primary key,ca
tegoryname varchar(255) not null);
Query OK, 0 rows affected (0.01 sec)

mysql> desc categories;
+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
+--------------+--------------+------+-----+---------+----------------+
| categoryid   | int          | NO   | PRI | NULL    | auto_increment |
| categoryname | varchar(255) | NO   |     | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
2 rows in set (0.00 sec)

mysql>
```

4.Create a table named parts with columns part_no varchar(18),description varchar(40),

cost decimal(10,2), price decimal(10,2). Make part_no s the primary key.Rows should be

inserted into the table only if the value of cost is greater than 0,price is greater than 0

and the value of price is greater than or equal to 0

```
mysql> insert into parts (part_no,cost,price) values ('b',150,10);
Query OK, 1 row affected (0.00 sec)

mysql> select * from parts;
+---------+-------------+--------+--------+
| part_no | description | cost   | price  |
+---------+-------------+--------+--------+
| a       | NULL        | 100.00 |  0.00  |
| b       | NULL        | 150.00 | 10.00  |
+---------+-------------+--------+--------+
2 rows in set (0.00 sec)
```

```
mysql> insert into parts (part_no,cost,price) values ('a',100,0);
Query OK, 1 row affected (0.00 sec)

mysql> select * from parts;
+---------+-------------+--------+--------+
| part_no | description | cost   | price  |
+---------+-------------+--------+--------+
| a       | NULL        | 100.00 |  0.00  |
+---------+-------------+--------+--------+
1 row in set (0.00 sec)

mysql> insert into parts (part_no,cost,price) values ('b',0,0);
ERROR 3819 (HY000): Check constraint 'parts_chk_1' is violated.
mysql>
```

```
mysql> create table parts (part_no varchar(18) primary key,description varch
ar(40),cost decimal(10,2) check(cost>0),price decimal(10,2) check(price>=0))
;
Query OK, 0 rows affected (0.01 sec)

mysql> desc parts;
+-------------+---------------+------+-----+---------+-------+
| Field       | Type          | Null | Key | Default | Extra |
+-------------+---------------+------+-----+---------+-------+
| part_no     | varchar(18)   | NO   | PRI | NULL    |       |
| description | varchar(40)   | YES  |     | NULL    |       |
| cost        | decimal(10,2) | YES  |     | NULL    |       |
| price       | decimal(10,2) | YES  |     | NULL    |       |
+-------------+---------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```