Q1. Create a table tasks with the following data

Column Datatype Constraint

task_id int Primary

key,autoincrement

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)

Field	Туре	Null	Key	Default	Extra
task_id	int	NO	PRI	NULL	auto_increment
title	varchar(255)	NO		NULL	l
start_date	date	YES		NULL	l
due_date	date	YES		NULL	l
status	tinyint	NO		NULL	l
priority	tinyint	NO		NULL	l
description	text	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

Q2. Create a table checklists with the following data

Column Datatype Constraint

todo_id int autoincrement

taskid int Foreign key

referencing task_id

column of tasks

table

todo Varchar(255) Not Null

```
mysql> create table checklists(todo_id int auto_increment primary key,taskid
int, todo varchar(255) not null, foreign key (taskid) references tasks(task_i
d));
Query OK, 0 rows affected (0.04 sec)
mysql> desc checklists;
 Field
                           Null | Kev
                                       | Default |
          Type
 todo_id
            int
                           NΟ
                                   PRI
                                         NULL
                                                   auto_increment
  taskid
                            YES
                                   MUL
            int
                                         NULL
  todo
            varchar(255)
                           NO
                                         NULL
3 rows in set (0.00 sec)
```

Q3. Insert, update and delete different values and check.

```
mysql> insert into tasks(title,status,priority) values('first',1,2);
```

Update:

```
mysql> update tasks set priority = 5 where task_id=1;
```

Check:

Q4. 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> desc parts;
  Field
                                   Null
                                          Kev
                                                 Default
                                                            Extra
                 Type
                 varchar(18)
                                   NO
                                          PRI
  part_no
                                                 NULL
  description
                 varchar(40)
                                   YES
                                                 NULL
                 decimal(10,2)
                                   YES
                                                 NULL
  cost
                 decimal(10,2)
                                   YES
                                                 NULL
  price
  rows in set (0.00 sec)
```

Q.5 Create a table categories with the following data. Column Datatype Constraint Categoryid int Primary key, autoincrement categoryname Varchar (255) Not null

```
mysql> create table categories (category_id int primary key auto_increment,categoryname varc
har(255) not null);
Query OK, 0 rows affected (0.02 sec)
mysql> desc categories;
  Field
                                   Null
                                           Key
                                                  Default
                   Type
  category_id
                   int
                                   NO
                                           PRI
                                                  NULL
                                                             auto_increment
                  varchar(255)
                                   NO
                                                  NULL
  categoryname
```

Q6. Create a table products with the following dataColumn Datatype Constraintproductid int Primary key,autoincrementproductname Varchar(255) Not nullcategoryid int Not NullForeign key referencing categoryid ofcategories table and give the options on delete cascade and on update cascade Insert values into both the tables and try deleting and updating the primary key values

Check the result in the child table

```
mysql> create table product(product_id int primary key auto_increment,productname varchar(25 5) not null,category_id int not null,foreign key(category_id) references categories(category
_id) on delete cascade on update cascade);
Query OK, 0 rows affected (0.02 sec)
mysql> desc product;
                                           Null
   Field
                       Type
                                                        Key
                                                                Default |
                                                                               Extra
   product_id
                        int
                                              NO
                                                        PRI
                                                                 NULL
                                                                               auto_increment
   productname
                        varchar(255)
                                              NO
                                                                 NULL
                                                                NULL
                                              NΩ
                                                        MUL
   category_id
                       int
   rows in set (0.00 sec)
```

Insert into categories table:

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

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

mysql> insert into product(productname, category_id) values('mobile',1); Query OK, 1 row affected (0.01 sec)

Deleting category:

```
mysql> delete from categories where category_id=1;
Query OK, 1 row affected (0.01 sec)
```

Updating a category:

```
mysql> select * from categories;
+-----+
| category_id | categoryname |
+-----+
| 2 | cloths |
+----+
1 row in set (0.00 sec)
```

```
mysql> update categories set category_id=3 where category_id=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from categories;
+-----+
| category_id | categoryname |
+-----+
| 3 | cloths |
+-----+
1 row in set (0.00 sec)
```