

Promod Chandra Das  
ID: 231002005

Answer to the Q no: 1

1. CREATE DATABASE E\_commerceDatabaseSchema;

2.

```
CREATE table Products(  
    productId int (11) NOT NULL,  
    Name varchar (255) Not Null,  
    description varchar(500) NOT NULL,  
    Price int Not null,  
    stockQunatity int Not Null,  
    PRIMARY KEY (productId)  
);
```


✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)


```
SELECT * FROM `products`
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

productId	Name	description	Price	stockQunatity
-----------	------	-------------	-------	---------------

Query results operations

 Create view

 Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

[Bookmark this SQL query](#)

2. CREATE TABLE ORDERS(

```
CREATE TABLE ORDERS(  
    OrderId int Not Null,  
    userId int not null,  
    order_date date not null,  
    status varchar(255) not null,  
    total_amount int Not null,  
    primary key( OrderId,UserId)  
);
```

Server: 127.0.0.1 » Database: e\_commercedatabaseschema » Table: orders

Browse Structure SQL Search Insert Export

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comme
1	OrderId	int(11)			No	None	
2	userId	int(11)			No	None	
3	order_date	date			No	None	
4	status	varchar(255)	utf8mb4_general_ci		No	None	
5	total_amount	int(11)			No	None	

3.

```
CREATE TABLE Order_Items(
  OrderitemId int Not Null,
  orderId int not null,
  productid int not null,
  Quantity int Not null,
  prince int Not null,
  primary key(OrderitemId , orderId, productid)
);
```

Server: 127.0.0.1 » Database: e\_commercedatabaseschema » Table: order\_items

Browse Structure SQL Search Insert Export Import Privileges

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	OrderitemId	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 2	orderId	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 3	productid	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 4	Quantity	int(11)			No	None			Change  Drop  More
<input type="checkbox"/> 5	prince	int(11)			No	None			Change  Drop  More



Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

ELECT \* FROM `orders`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

	OrderId	userid	order_date	status	total_amount
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	101	1	2024-12-20	Processing	2300
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	102	2	2024-12-21	Shipped	800
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	103	3	2024-12-22	Delivered	200
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	231002005	101	2024-12-23	Best	10000000

☐ Check all

With selected:

Edit

Copy

Delete

Export

Insert the Order\_name table value insert

INSERT INTO Order\_Items (orderItemId, orderId, productId, Quantity,prince)  
VALUES  
(1, 101, 1, 1, 1500),  
(2, 101, 3, 4, 800),  
(3, 102, 2, 1, 800);

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

	OrderitemId	orderId	productid	Quantity	prince
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1	101	1	1	1500
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	2	101	3	4	800
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	3	102	2	1	800

☐ Check all

With selected:

Edit

Copy

Delete

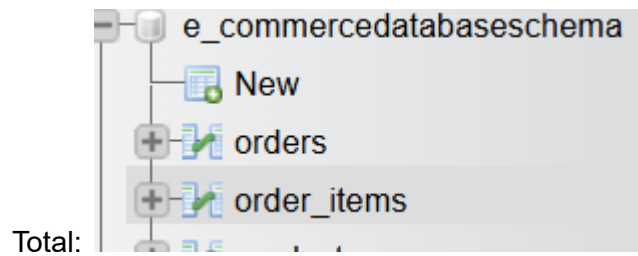
Export

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None



Answer to the q no:2

- a) Retrieve all product that have a stock quantity greater than 50

```
SELECT orderId, userId, order_date, status, total_amount
FROM Orders
WHERE userId = <specific_user_id>;
```

- b) Get the details of an order (Order\_id, user\_id, order \_date, status, total amount of a specific user)

```
SELECT orderId, userId, order_date, status, total_amount
FROM Orders
WHERE userId = <specific_user_id>;
```

- c) Retrieve the product details (name, description, price) for all product included in Order Id

```
SELECT p.Name, p.description, p.Price
```

```
FROM Products p
JOIN Order_Items oi ON p.productId = oi.productId
WHERE oi.orderId = <specific_order_id>; -- Replace <specific_order_id>
with the Order ID
```

d) Retrieve the details of the product with the highest price

```
SELECT *
FROM Products
ORDER BY Price DESC
LIMIT 1;
```

e) Update the total\_amount filed in the orders table for a specific order basd on its items quantities and price

```
UPDATE Orders o
SET total_amount = (
    SELECT SUM(oi.Quantity * oi.Price)
    FROM Order_Items oi
    WHERE oi.orderId = o.orderId
)
WHERE o.orderId = <specific_order_id>; -- Replace <specific_order_id>
with the Order ID
```

Answer to the q no : 03

- a) List all products are included in at least one order but have a stock quantity of less than 10

```
SELECT DISTINCT p.*
FROM Products p
JOIN Order_Items oi ON p.productId = oi.productId
WHERE p.stockQuantity < 10;
```

- b) Write a trigger that automatically updates the stock\_quantity in the product tabel when a new record is inserted into the order\_item table

```
DELIMITER $$
```

```
CREATE TRIGGER update_stock_quantity
AFTER INSERT ON Order_Items
FOR EACH ROW
BEGIN
    UPDATE Products
    SET stockQuantity = stockQuantity - NEW.Quantity
    WHERE productId = NEW.productId;
END$$
```

```
DELIMITER ;
```