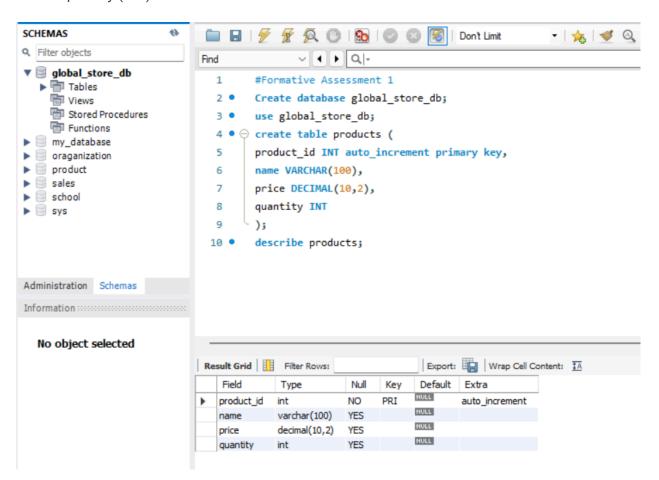
## **Formative Assessment 1**

## Instructions:

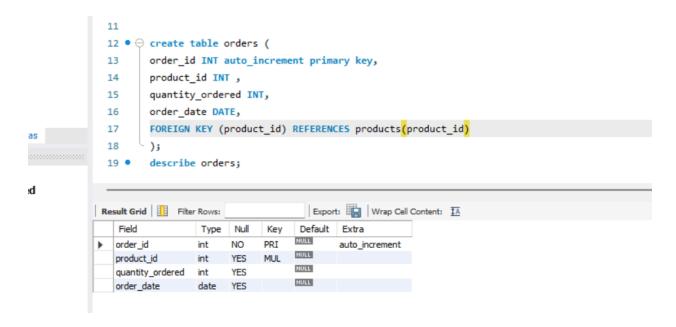
Complete the following tasks in MySQL. Each task is assigned a specific score. Timely submission earns an additional 1 point.

- **1.** Create the following tables inside the database 'global\_store\_db'.(Score :2) 'products' with columns:
  - product\_id (INT, auto\_increment, primary key),
  - name (VARCHAR(100)),
  - price (DECIMAL(10,2)),
  - quantity (INT).

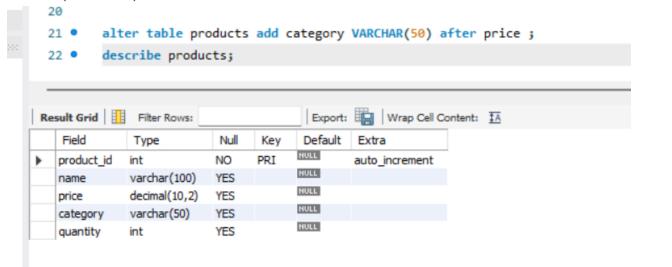


'orders' with columns:

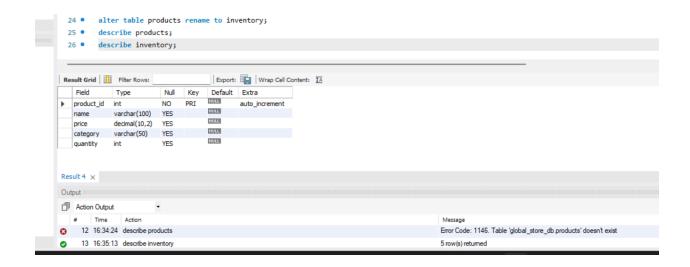
- order\_id (INT, auto\_increment, primary key),
- product\_id (INT, foreign key referencing product\_id in the inventory table),
- quantity\_ordered (INT)
- order\_date (DATE).



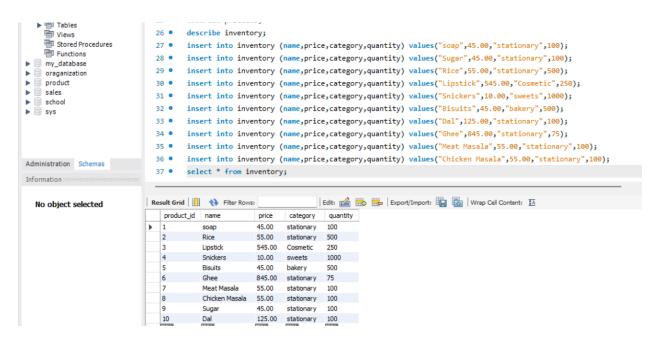
2.Alter the products table to add a new column named category (VARCHAR(50)) after the price column. (score: 0.5)

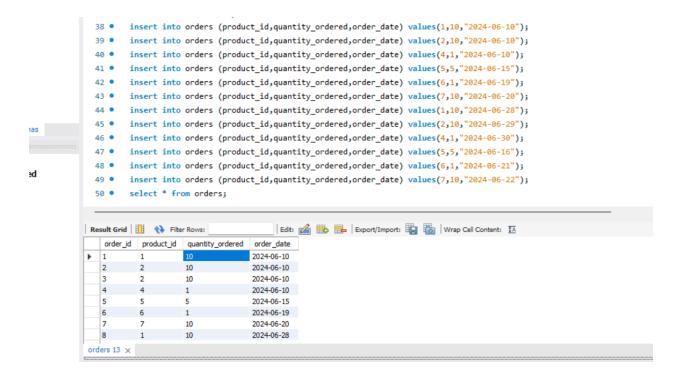


3. Rename the products table to inventory. (score: 0.5)

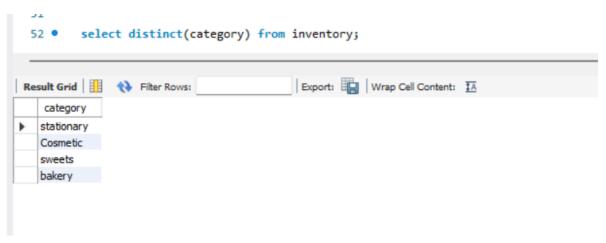


4. Insert at least 10 records into the inventory table and 5 records into orders table and display the tables. (score: 1)

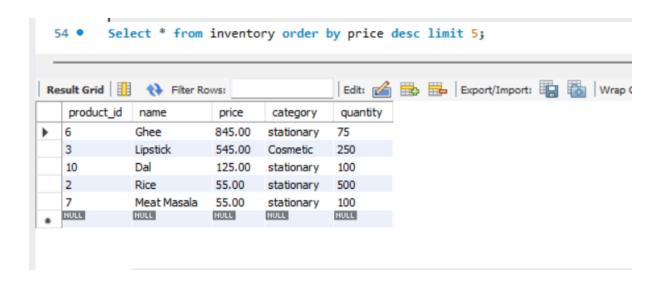




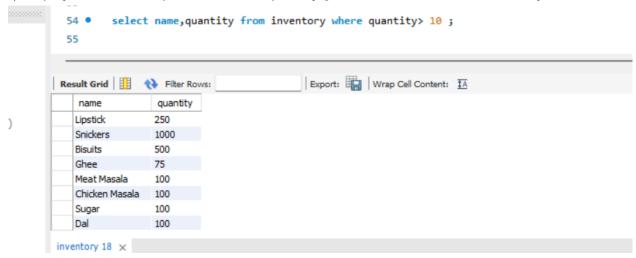
- 5. Write queries for the following: (Score:3)
- a) Write a query to display distinct categories from the inventory table.



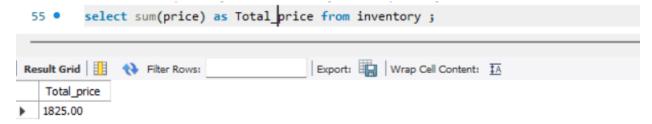
b) Select the top 5 products by their prices in descending order from the inventory table.



c) Display the names of products with a quantity greater than 10 from the inventory table.



d) Use the SUM() function to calculate the total price of all products in the inventory table.



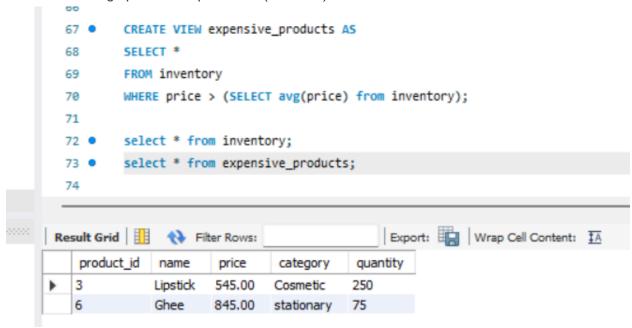
e )Group products by their categories and display the count of products in each category.



f) Write a query to identify products that are currently out of stock (i.e., quantity is zero). Display the product details including the product name and price.



6. Create a view named expensive\_products that displays the details of products with a price above the average price of all products. (score: 1)



7. Write a join query to display the names of products along with the corresponding order quantities from the inventory and orders tables. (score: 1)



Total Score: 10

## **Queries Used**

```
#Formative Assessment 1
Create database global_store_db;
use global_store_db;
create table products (
product_id INT auto_increment primary key,
name VARCHAR(100),
price DECIMAL(10,2),
quantity INT
describe products;
create table orders (
order_id INT auto_increment primary key,
product_id INT ,
quantity_ordered INT,
order_date DATE,
FOREIGN KEY (product_id) REFERENCES products(product_id)
);
describe orders;
alter table products add category VARCHAR(50) after price;
describe products;
alter table products rename to inventory;
```

```
describe products;
describe inventory;
insert into inventory (name, price, category, quantity)
values("soap",45.00,"stationary",100);
insert into inventory (name, price, category, quantity)
values("Sugar",45.00,"stationary",100);
insert into inventory (name, price, category, quantity)
values("Rice",55.00,"stationary",500);
insert into inventory (name, price, category, quantity)
values("Lipstick",545.00,"Cosmetic",250);
insert into inventory (name, price, category, quantity)
values("Snickers",10.00,"sweets",1000);
insert into inventory (name, price, category, quantity)
values("Bisuits",45.00,"bakery",500);
insert into inventory (name, price, category, quantity)
values("Dal",125.00,"stationary",100);
insert into inventory (name, price, category, quantity)
values("Ghee",845.00,"stationary",75);
insert into inventory (name,price,category,quantity) values("Meat
Masala",55.00,"stationary",100);
insert into inventory (name,price,category,quantity) values("Chicken
Masala",55.00,"stationary",100);
select * from inventory;
insert into orders (product_id,quantity_ordered,order_date)
values(1,10,"2024-06-10");
insert into orders (product_id,quantity_ordered,order_date)
values(2,10,"2024-06-10");
insert into orders (product_id,quantity_ordered,order_date)
values(4,1,"2024-06-10");
insert into orders (product_id,quantity_ordered,order_date)
values(5,5,"2024-06-15");
insert into orders (product_id,quantity_ordered,order_date)
values(6,1,"2024-06-19");
insert into orders (product_id,quantity_ordered,order_date)
values(7,10,"2024-06-20");
```

```
insert into orders (product_id,quantity_ordered,order_date)
values(1,10,"2024-06-28");
insert into orders (product_id,quantity_ordered,order_date)
values(2,10,"2024-06-29");
insert into orders (product_id,quantity_ordered,order_date)
values(4,1,"2024-06-30");
insert into orders (product_id,quantity_ordered,order_date)
values(5,5,"2024-06-16");
insert into orders (product_id,quantity_ordered,order_date)
values(6,1,"2024-06-21");
insert into orders (product_id,quantity_ordered,order_date)
values(7,10,"2024-06-22");
select * from orders:
select distinct(category) from inventory;
Select * from inventory order by price desc limit 5;
select name, quantity from inventory where quantity > 10;
select sum(price) as Total_price from inventory;
#Group products by their categories and display the count of products in each
category.
select category, count(category) from inventory group by category;
#f) Write a query to identify products that are currently out of stock (i.e.,
quantity is zero). Display the product details including the product name and
price.
insert into inventory (name, price, category, quantity)
values("Tomato",120.00,"Vegeatble",0);
select product_id,name,price from inventory where quantity <=0;</pre>
Create view expensive_products as SELECT name, price from inventory where
price>=avg(price);
```

**CREATE VIEW expensive\_products AS** 

**SELECT \***