SQL Assignment : Product Table

Objective

This Assignment will help you practice creating a Products table, Inserting data, Updating data and performing various queries.

Instructions

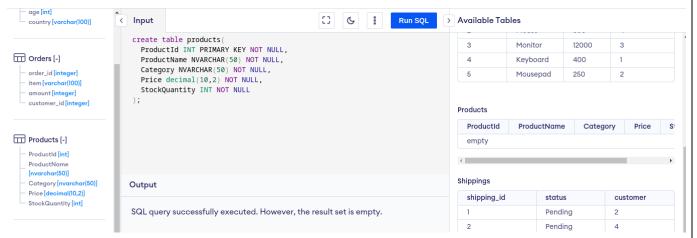
- **1. Creating the Table:** Write a SQL statement to create the Products table with the following structure:
 - ProductID (integer, primary key, not null)
 - ProductName (nvarchar(50), not null)
 - Category (nvarchar(50), not null)
 - Price (decimal(10,2), not null)
 - StockQuantity (integer, not null)
- **2. Insert Records:** Insert the following records into the Products table:
 - (1, 'Laptop', 'Electronics', 1000.00, 50)
 - (2, 'Headphones', 'Electronics', 150.00, 200)
 - (3,'Coffee Maker','Home Appliences', 80.00, 100)
 - (4,'Blender','Home Appliences', 120.00, 80)
 - (5,'Office Chair','Furniture', 250.00, 30)
- 3. Insert One More Record: Insert the additional record:
 - (6, 'Desk Lamp', 'Furniture', 250.00, 150)
- **4. Select All Records :** Write a SQL statement to select all records from the Products table.
- **5. Select Specific Columns :** Write a SQL statement to select the ProductName and Price columns from the Products table.
- **6. Where Clause:** Write a SQL statement to select all products in the 'Electronics' category.
- **7. Order By:** Write a SQL statement to select all products and order them by Price in ascending order.
- **8.** Aggregade Function (COUNT): Write a SQL statement to count the number of products in the Products table.

Solutions:

1. Creating the Table: we can use below SQL statement to create table -

CREATE table products (

ProductId INT PRIMARY KEY NOT NULL, ProductName NVARCHAR(50) NOT NULL, Category NVARCHAR(50) NOT NULL, Price decimal(10,2) NOT NULL, StockQuantity INT NOT NULL);

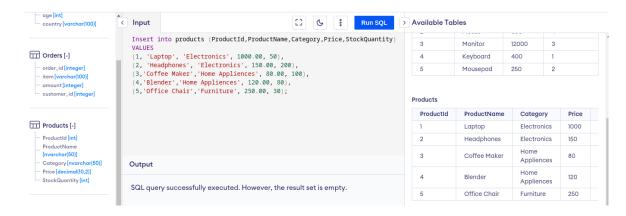


2. Insert Records:

to insert data in products table we can use below SQL statement -

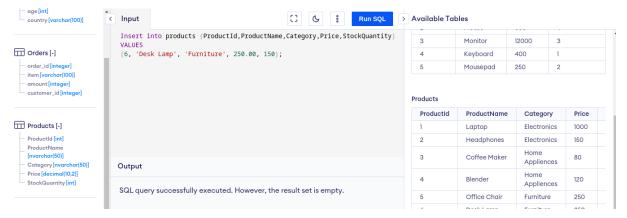
INSERT INTO products (ProductId, ProductName, Category, Price, StockQuantity) VALUES

- (1, 'Laptop', 'Electronics', 1000.00, 50),
- (2, 'Headphones', 'Electronics', 150.00, 200),
- (3,'Coffee Maker','Home Appliences', 80.00, 100),
- (4, 'Blender', 'Home Appliences', 120.00, 80),
- (5, 'Office Chair', 'Furniture', 250.00, 30);

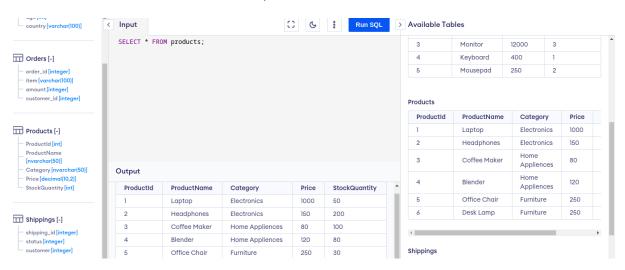


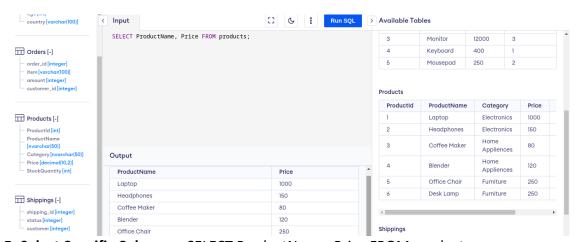
3. Insert One More Record:

INSERT INTO products (ProductId, ProductName, Category, Price, StockQuantity) VALUES (6, 'Desk Lamp', 'Furniture', 250.00, 150);



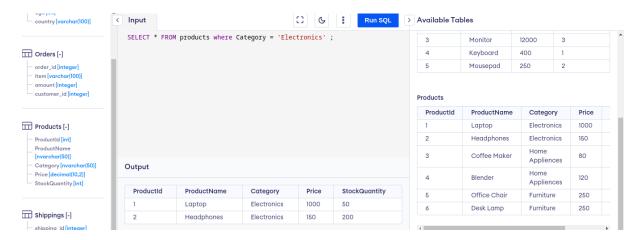
4. Select All Records: SELECT * FROM products;



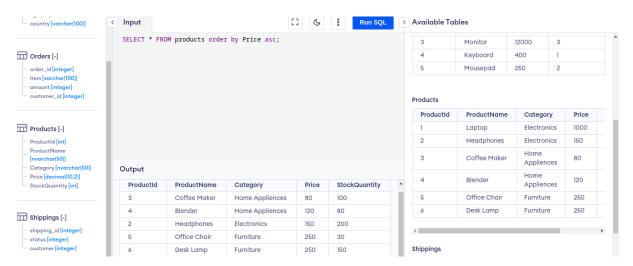


5. Select Specific Columns: SELECT ProductName, Price FROM products;

6. Where Clause: SELECT * FROM products where Category = 'Electronics';



7. Order By: SELECT * FROM products order by Price asc;



8. Aggregade Function (COUNT): SELECT count(*) AS Number_of_Products from products;

