Foundation Technical Training

Assignment No. 1 - SQL - Task 2

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Tasks 2: Select, Where, Between, AND, LIKE:

- 1. Write an SQL query to retrieve the names and emails of all customers.
- 2. Write an SQL query to list all orders with their order dates and corresponding customer names.
- 3. Write an SQL query to insert a new customer record into the "Customers" table. Include customer information such as name, email, and address.
- 4. Write an SQL query to update the prices of all electronic gadgets in the "Products" table by increasing them by 10%.
- 5. Write an SQL query to delete a specific order and its associated order details from the "Orders" and "OrderDetails" tables. Allow users to input the order ID as a parameter.
- 6. Write an SQL query to insert a new order into the "Orders" table. Include the customer ID, order date, and any other necessary information.
- 7. Write an SQL query to update the contact information (e.g., email and address) of a specific customer in the "Customers" table. Allow users to input the customer ID and new contact information.
- 8. Write an SQL query to recalculate and update the total cost of each order in the "Orders" table based on the prices and quantities in the "OrderDetails" table.
- 9. Write an SQL query to delete all orders and their associated order details for a specific customer from the "Orders" and "OrderDetails" tables. Allow users to input the customer ID as a parameter.
- 10. Write an SQL query to insert a new electronic gadget product into the "Products" table, including product name, category, price, and any other relevant details.
- 11. Write an SQL query to update the status of a specific order in the "Orders" table (e.g., from "Pending" to "Shipped"). Allow users to input the order ID and the new status.
- 12. Write an SQL query to calculate and update the number of orders placed by each customer in the "Customers" table based on the data in the "Orders" table.

Program Code in SQL:

1. -- Write an SQL query to retrieve the names and emails of all customers.

USE NiranjanDB;

SELECT FirstName, LastName, Email FROM Customers;

2. -- Write an SQL query to list all orders with their order dates and corresponding customer names.

SELECT OrderID, FirstName, LastName, OrderDate FROM Orders, Customers WHERE Orders.CustomerID=Customers.CustomerID;

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table.
-- Include customer information such as name, email, and address.
          INTO
                               VALUES
INSERT
                  Customers
                                          (11,
                                                  'Benedict', 'Cumberbatch',
'benedict@gmail.com', 9999999982, 'Chennai');
SELECT * FROM Customers;
4. -- Write an SQL query to update the prices of all electronic gadgets in the
"Products" table by
-- increasing them by 10%.
UPDATE Products SET Price=Price+(Price*10/100);
SELECT * FROM Products;
5. -- Write an SQL query to delete a specific order and its associated order
details from the
-- "Orders" and "OrderDetails" tables. Allow users to input the order ID as a
parameter.
declare @OrderID int = 10;
--before deletion
select * from Orders;
select * from OrderDetails;
--after deletion
delete from OrderDetails
where OrderID=@OrderID;
delete from Orders
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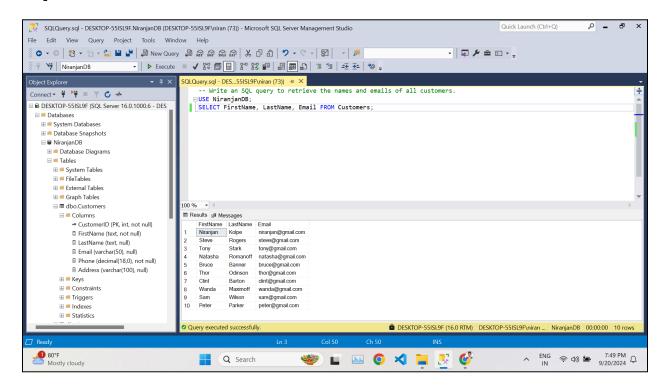
3. -- Write an SQL query to insert a new customer record into the "Customers"

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where OrderID = @OrderID;
Select * from Orders;
select * from OrderDetails;
6. -- Write an SQL query to insert a new order into the "Orders" table. Include
the customer ID,
-- order date, and any other necessary information.
INSERT INTO Orders VALUES (10, 2, '2024-09-19', 1000);
SELECT * FROM Orders;
7. -- Write an SQL query to update the contact information (e.g., email and
address) of a specific
-- customer in the "Customers" table. Allow users to input the customer ID and
new contact
-- information.
DECLARE @CustomerID int = 7;
DECLARE @Email varchar(50) = 'clintbarton@gmail.com';
SELECT * FROM Customers WHERE CustomerID = @CustomerID;
UPDATE Customers SET Email = @Email WHERE CustomerID = @CustomerID;
SELECT * from Customers WHERE CustomerID = @CustomerID;
8. -- Write an SQL query to recalculate and update the total cost of each order
in the "Orders"
-- table based on the prices and quantities in the "OrderDetails" table.
SELECT * FROM Orders;
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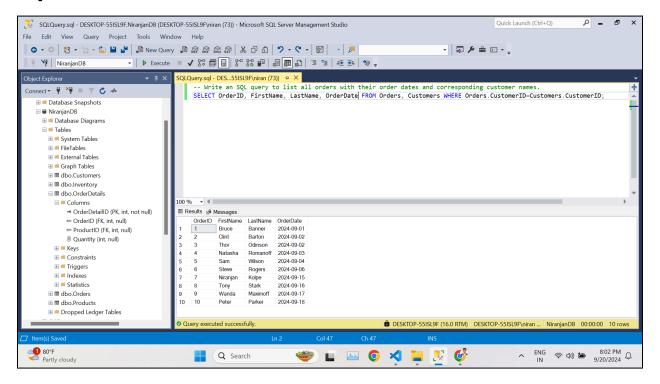
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-- The "TotalAmount" column has already been set according to the "Price" and
"Quantity" columns,
-- when the order was placed and the record for it was inserted.
9. -- Write an SQL query to delete all orders and their associated order details
for a specific
-- customer from the "Orders" and "OrderDetails" tables. Allow users to input the
customer ID
-- as a parameter.
SELECT * FROM Orders;
SELECT * FROM OrderDetails;
BEGIN TRANSACTION;
DECLARE @CustomerID INT = 6;
DELETE FROM OrderDetails WHERE OrderID IN (SELECT OrderID FROM Orders WHERE
CustomerID = @CustomerID);
DELETE FROM Orders WHERE CustomerID = @CustomerID;
COMMIT TRANSACTION;
SELECT * FROM Orders;
SELECT * FROM OrderDetails;
10. -- Write an SQL query to insert a new electronic gadget product into the
"Products" table,
-- including product name, category, price, and any other relevant details.
BEGIN TRANSACTION;
SELECT * FROM Products;
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INSERT INTO Products (ProductID, ProductName, Description, Price) VALUES (11,
'Speaker', 'Bluetooth Speaker', 2000);
SELECT * FROM Products;
COMMIT TRANSACTION;
11. -- Write an SQL query to update the status of a specific order in the
"Orders" table (e.g., from
-- "Pending" to "Shipped"). Allow users to input the order ID and the new status.
UPDATE Orders SET Status='Pending';
SELECT * FROM Orders;
BEGIN TRANSACTION;
DECLARE @OrderID INT = 8;
UPDATE Orders SET Status='Shipped' WHERE OrderID=@OrderID;
SELECT * FROM Orders;
COMMIT TRANSACTION;
12. -- Write an SQL query to calculate and update the number of orders placed by
each customer
-- in the "Customers" table based on the data in the "Orders" table.
BEGIN TRANSACTION;
UPDATE Customers SET NumberOfOrders = (SELECT COUNT(*) FROM Orders WHERE
Orders.CustomerID = Customers.CustomerID);
SELECT * FROM Customers;
COMMIT TRANSACTION;
```

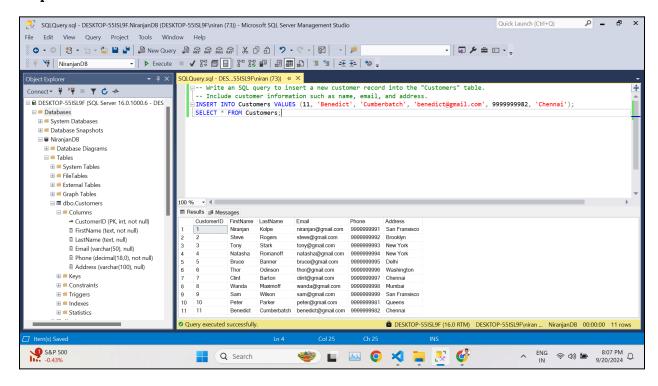
Output 1:



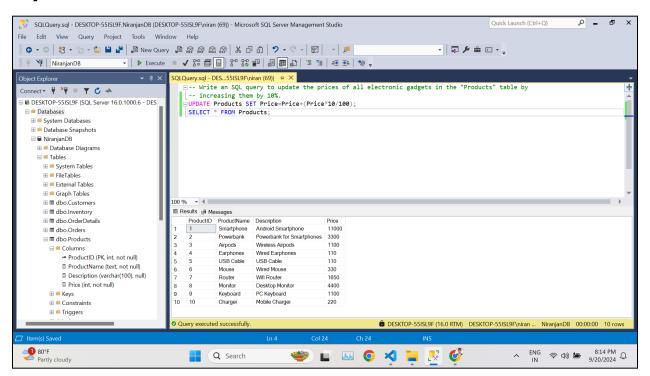
Output 2:



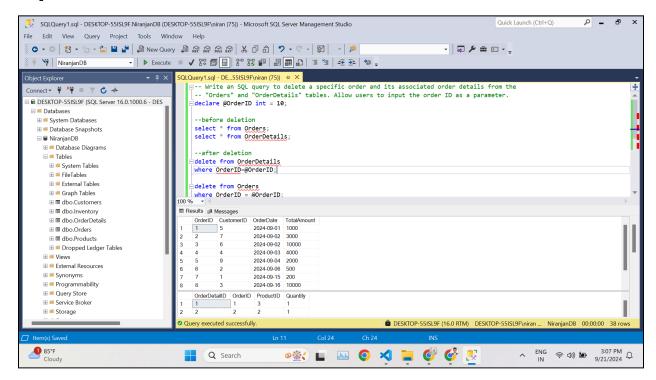
Output 3:



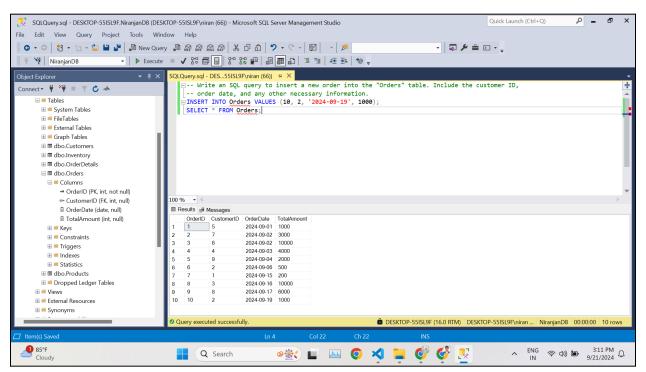
Output 4:



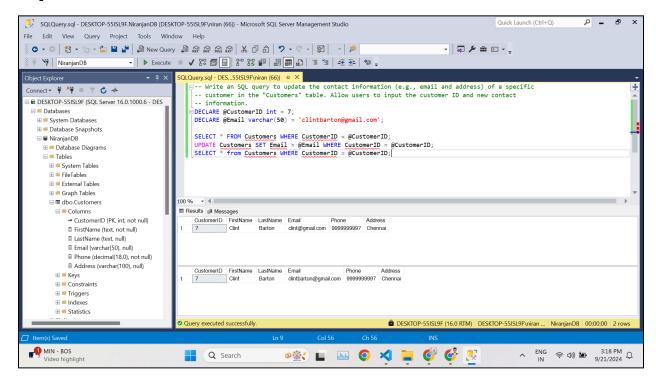
Output 5:



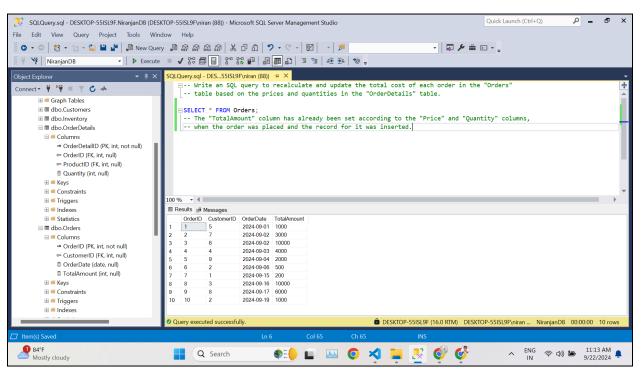
Output 6:



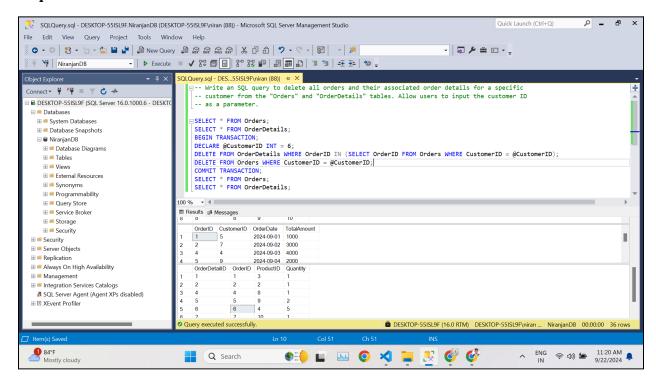
Output 7:



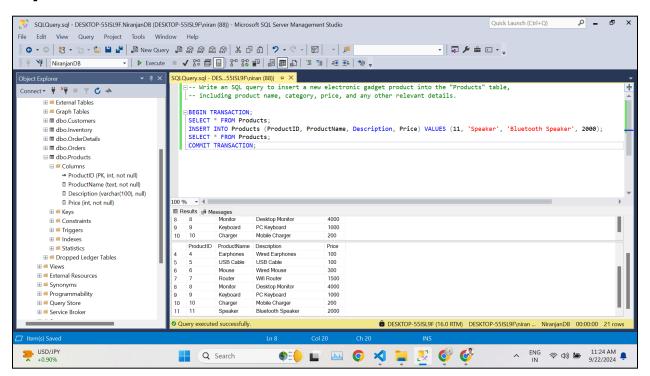
Output 8:



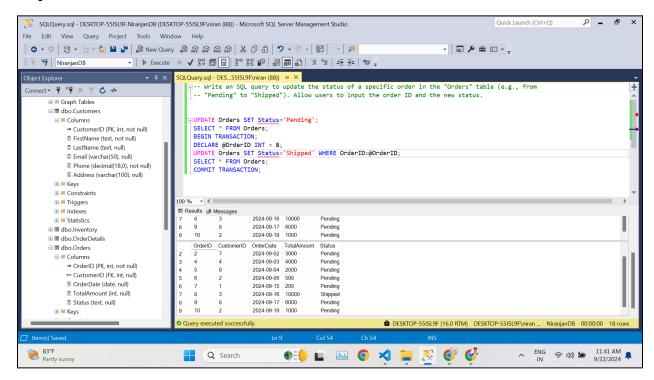
Output 9:



Output 10:



Output 11:



Output 12:

