**WEEK-2 Ranking and Window Functions**

**Exercise 1: Ranking and Window Functions Goal:**

**Use ROW\_NUMBER(), RANK(), DENSE\_RANK(), OVER(), and PARTITION BY.**

**Scenario: Find the top 3 most expensive products in each category using different ranking functions.**

**Steps:**

**1. Use ROW\_NUMBER() to assign a unique rank within each category.**

**2. Use RANK() and DENSE\_RANK() to compare how ties are handled.**

**3. Use PARTITION BY Category and ORDER BY Price DESC.**

**QUERY:**

**DROP TABLE IF EXISTS Products;**

**CREATE TABLE Products(**

**ProductID INT PRIMARY KEY,**

**ProductName VARCHAR(100),**

**Category VARCHAR(50),**

**Price INT**

**);**

**INSERT INTO Products (ProductID, ProductName, Category, Price) VALUES**

**(1, 'Keyboard', 'Electronics', 1500),**

**(2, 'Mouse', 'Electronics', 800),**

**(3, 'Monitor', 'Electronics', 8000),**

**(4, 'Blender', 'Kitchen', 4000),**

**(5, 'Mixer', 'Kitchen', 4000),**

**(6, 'Oven', 'Kitchen', 9000),**

**(7, 'T-shirt', 'Apparel', 500),**

**(8, 'Hoodie', 'Apparel', 1200),**

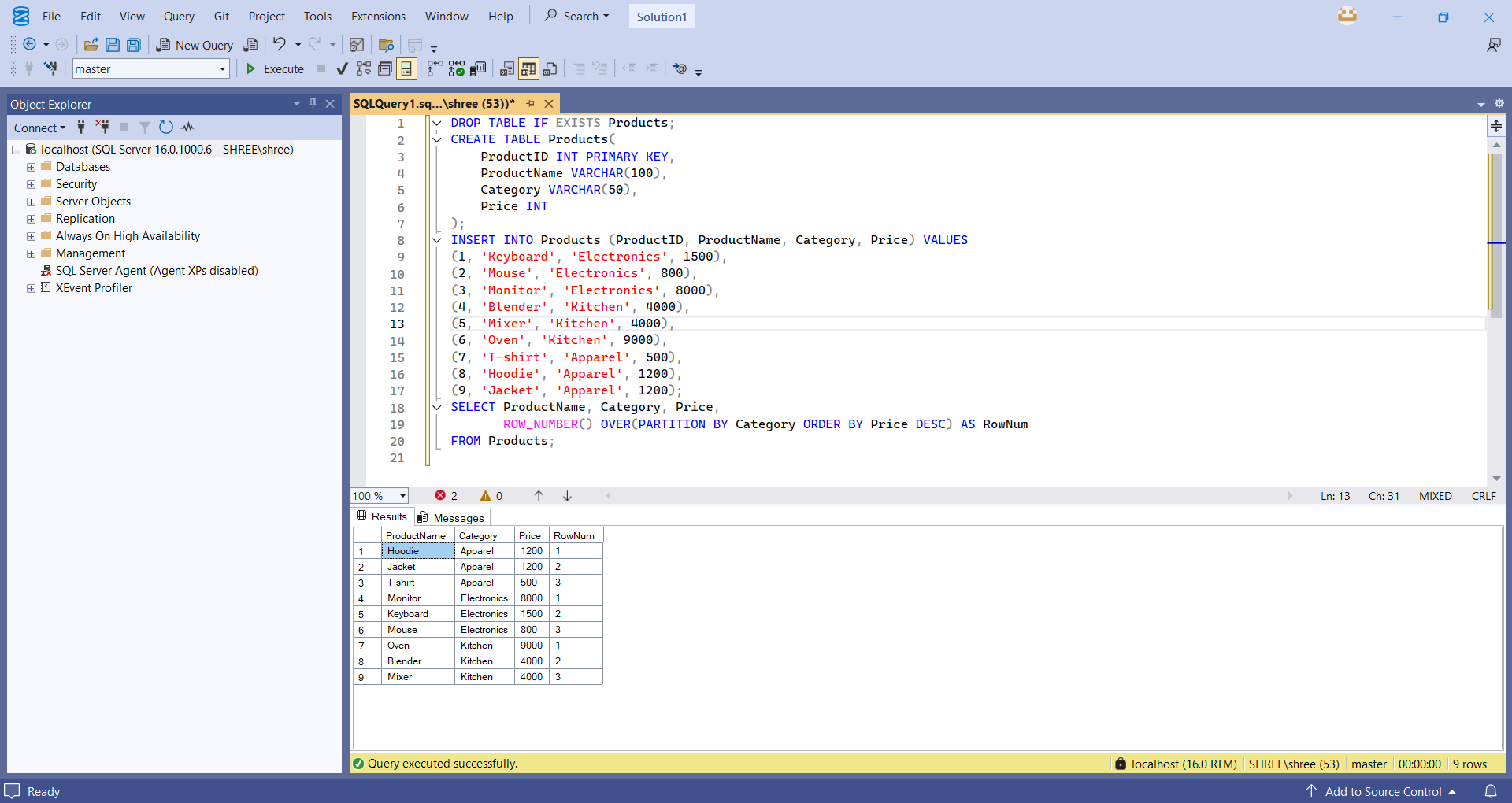
**(9, 'Jacket', 'Apparel', 1200);**

**SELECT ProductName, Category, Price,**

**ROW\_NUMBER() OVER(PARTITION BY Category ORDER BY Price DESC) AS RowNum**

**FROM Products;**

**OUTPUT:**

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