# Online Retail Store - Ranking and Window Functions

WEEK 2 - RANKING AND WINDOWS FUNCTION

Task: Execute the following SQL query on your OnlineRetailStore database in SSMS to retrieve the top 3 products per category, including ROW\_NUMBER, RANK, and DENSE\_RANK values in a single result set.

## SQL Query:

USE OnlineRetailStore;  
GO;  
  
WITH Ranked AS (  
 SELECT  
 ProductID,  
 ProductName,  
 Category,  
 Price,  
 ROW\_NUMBER() OVER (PARTITION BY Category ORDER BY Price DESC) AS RowNum,  
 RANK() OVER (PARTITION BY Category ORDER BY Price DESC) AS RankNum,  
 DENSE\_RANK() OVER (PARTITION BY Category ORDER BY Price DESC) AS DenseRankNum  
 FROM Products  
)  
SELECT  
 ProductID,  
 ProductName,  
 Category,  
 Price,  
 RowNum,  
 RankNum,  
 DenseRankNum  
FROM Ranked  
WHERE  
 RowNum <= 3  
 OR RankNum <= 3  
 OR DenseRankNum <= 3  
ORDER BY  
 Category,  
 RowNum,  
 RankNum,  
 DenseRankNum;

## Output Screenshot:

