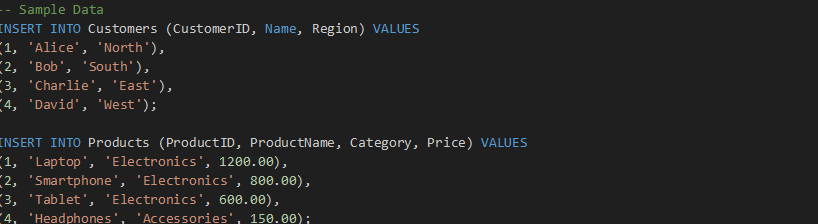
**NAME-** Kanishk Vardhan Singh

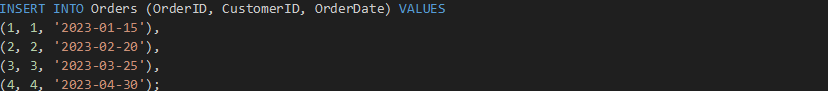
**SUPERSET ID-** 6365335

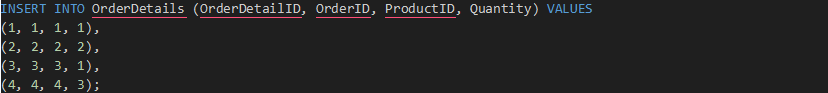
***Advanced SQL Exercises***

**Exercise 1: Ranking and Window Functions**

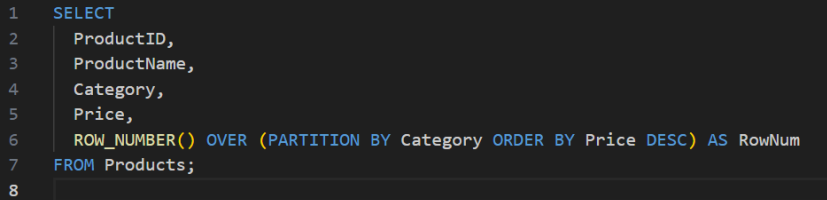
**Using the Below sample Data (from Exercise 2)**

****

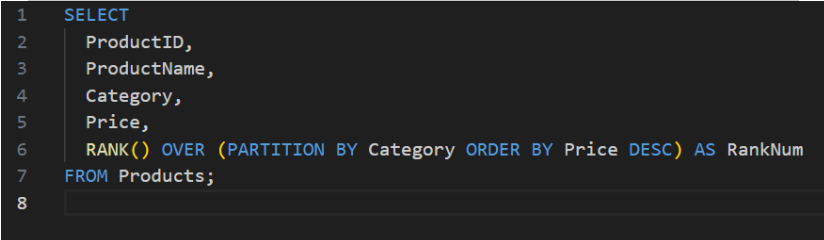
****

****

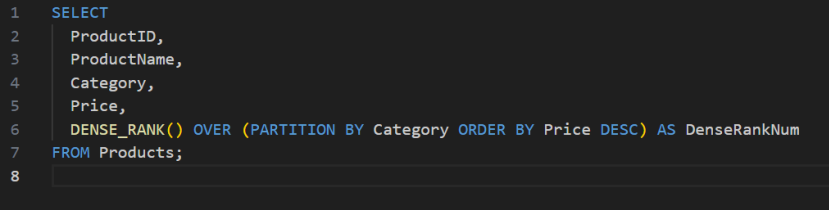
1. Using ROW\_NUMBER() to assign unique rank per category

****

1. Using RANK() to handle ties (same price → same rank, skips numbers)

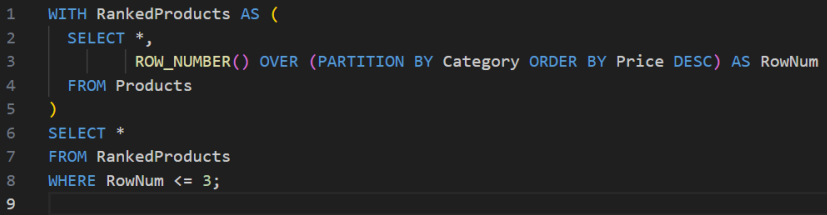
****

1. Using DENSE\_RANK() to handle ties (same price → same rank, no skips)

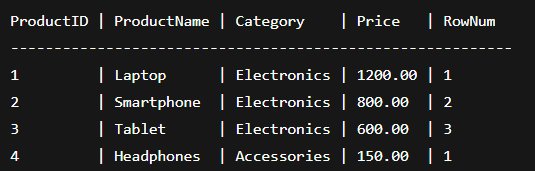
****

**Now, to filter Top 3 products in each category**

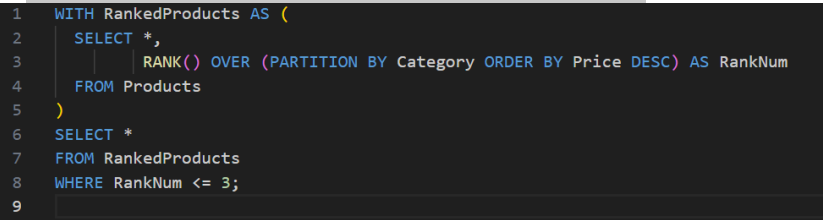
1. ROW\_NUMBER() – Top 3 Products per Category

****

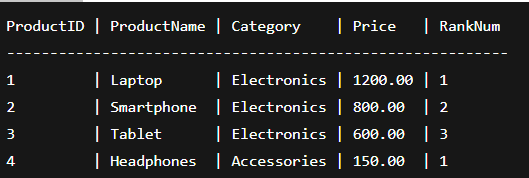
Output:

****

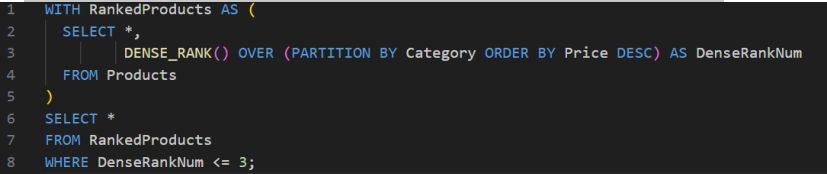
1. RANK() – Top 3 Products per Category (with gap on ties)

****

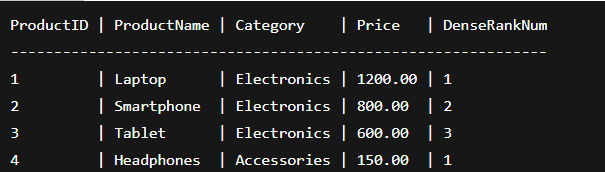
Output:

****

1. DENSE\_RANK() – Top 3 Products per Category (no gap on ties)

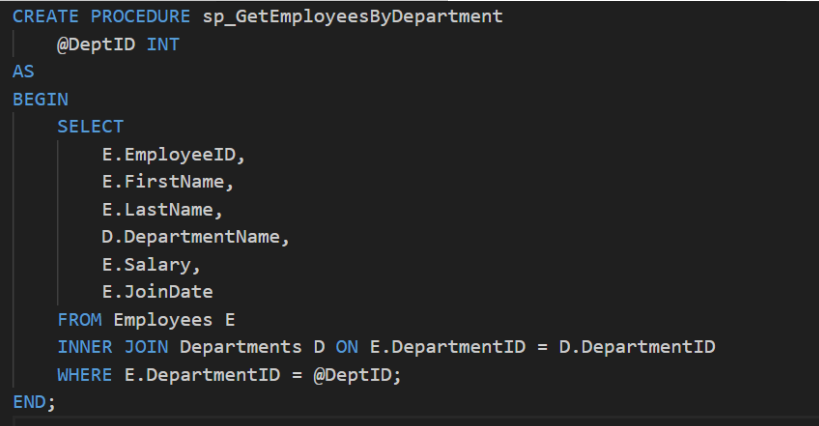
****

Output:

****

*SQL stored procedure*

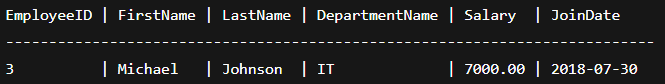
**Exercise 1: Create a Stored Procedure**

****

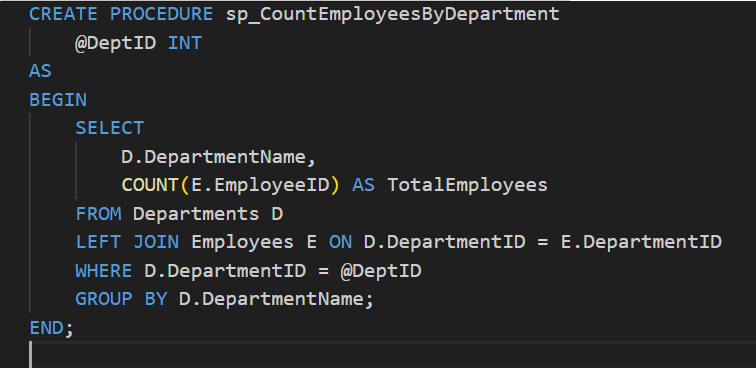
Input:

**Screenshot 2025-06-29 202657**

Output:

****

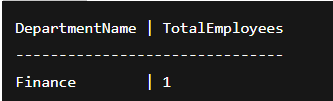
**Exercise 5: Return Data from a Stored Procedure**

****

Input:

**Screenshot 2025-06-29 202931**

Output:

****