**EXERCISE 1: RANKING AND WINDOW FUNCTIONS**

DROP TABLE IF EXISTS Products;

CREATE TABLE Products(

Product\_id INT,

Product\_name VARCHAR(100),

Category VARCHAR(100),

Product\_price DECIMAL(10,2)

);

INSERT INTO Products(Product\_id, Product\_name, Category, Product\_price) VALUES

(1, 'Laptop A', 'Electronics', 20000),

(2, 'Laptop B', 'Electronics', 15000),

(3, 'CellPhone A', 'Electronics', 9000),

(4, 'Shirt A', 'Garments', 900),

(5, 'CellPhone B', 'Electronics', 8000),

(6, 'Shirt B', 'Garments', 900),

(7, 'Jeans A', 'Garments', 1000),

(8, 'Jeans B', 'Garments', 1000),

(9, 'Laptop C', 'Electronics', 30000),

(10, 'T-Shirt', 'Garments', 500);

SELECT \*

FROM(

SELECT \*,

ROW\_NUMBER() OVER(PARTITION BY Category ORDER BY Product\_price DESC) AS RowNum

FROM Products

) ranked

WHERE RowNum<=3;

SELECT\*

FROM(

SELECT \*,

RANK() OVER(PARTITION BY Category ORDER BY Product\_price DESC) AS RankNum

FROM Products

)ranked

WHERE RankNum<=3;

SELECT\*

FROM(

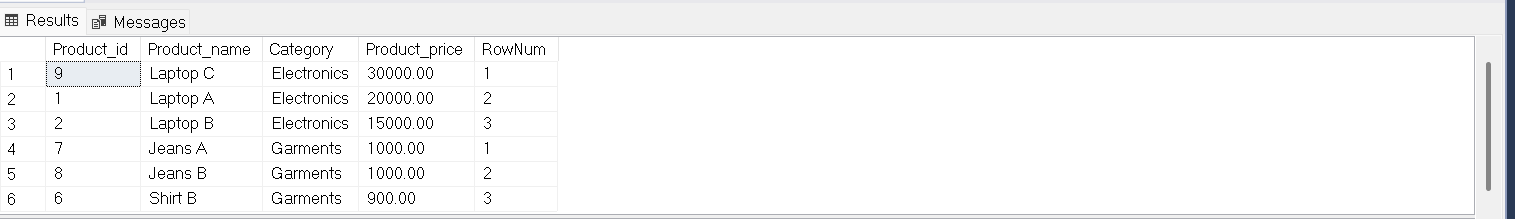
SELECT \*,

DENSE\_RANK() OVER(PARTITION BY Category ORDER BY Product\_price DESC) AS DenseRankNum

FROM Products

)ranked

WHERE DenseRankNum<=3;





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AI-generated content may be incorrect.

**NOTE:**  The Output Window couldn’t be maximised. So, the order of the output is provided as per the questions.