

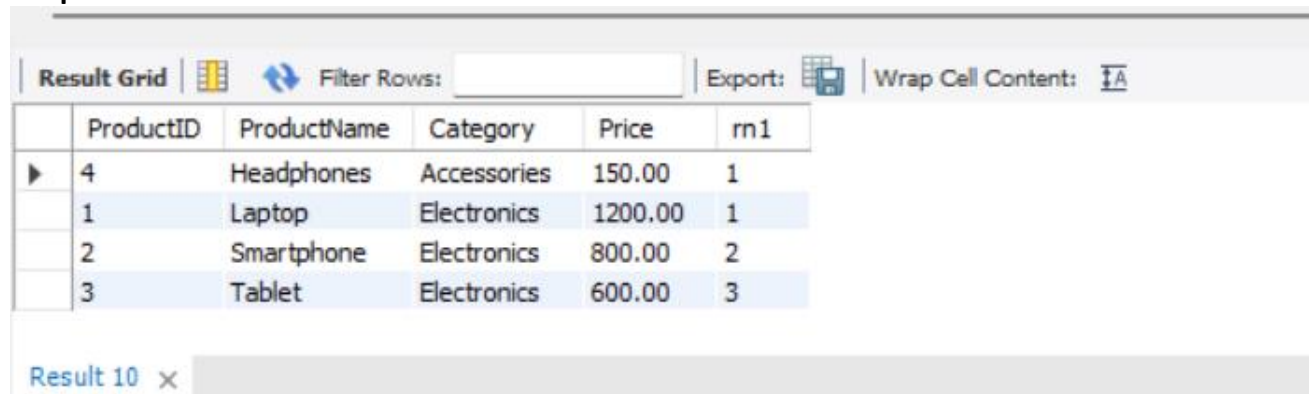
SUPERSET_ID 6358136

WEEK - 2 ADVANCED SQL

Task 1:

```
SELECT *  
FROM (  
    SELECT *,  
        ROW_NUMBER() OVER (PARTITION BY Category ORDER BY Price DESC) AS rn1  
    FROM Products  
) AS ranked  
WHERE rn1 <= 3;
```

Output:



	ProductID	ProductName	Category	Price	rn1
▶	4	Headphones	Accessories	150.00	1
	1	Laptop	Electronics	1200.00	1
	2	Smartphone	Electronics	800.00	2
	3	Tablet	Electronics	600.00	3

Result 10 x

Task 2:

```
SELECT *  
FROM (  
    SELECT *,  
        RANK() OVER (PARTITION BY Category ORDER BY Price DESC) AS rn2  
    FROM Products  
) AS ranked  
WHERE rn2 <= 3;
```

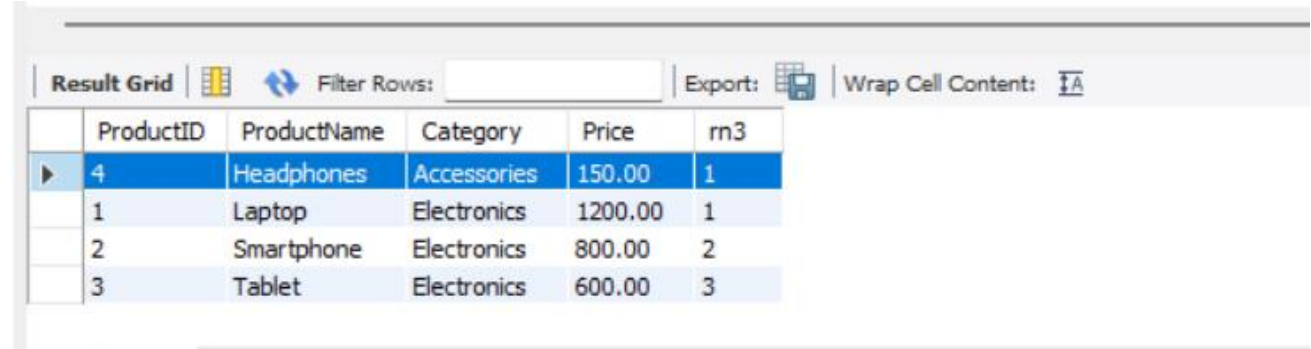
Output:



	ProductID	ProductName	Category	Price	rn2
▶	4	Headphones	Accessories	150.00	1
	1	Laptop	Electronics	1200.00	1
	2	Smartphone	Electronics	800.00	2
	3	Tablet	Electronics	600.00	3

Task 3:

```
SELECT *
FROM (
    SELECT *,
        DENSE_RANK() OVER (PARTITION BY Category ORDER BY Price DESC) AS rn3
    FROM Products
) AS ranked
WHERE rn3 <= 3;
```

Output:

	ProductID	ProductName	Category	Price	rn3
▶	4	Headphones	Accessories	150.00	1
	1	Laptop	Electronics	1200.00	1
	2	Smartphone	Electronics	800.00	2
	3	Tablet	Electronics	600.00	3

STORED PROCEDURES**Ex 1:**

```
DELIMITER //
CREATE PROCEDURE sp_GetEmployeesByDepartment(IN DepartmentID INT)
BEGIN
    SELECT FirstName, LastName, DepartmentID, Salary, JoinDate
    FROM Employees
    WHERE DepartmentID = DepartmentID;
END //
DELIMITER ;
```

Ex 5:

```
DELIMITER //
CREATE PROCEDURE sp_GetEmployeeCountByDepartment(IN DepartmentID INT)
BEGIN
    SELECT COUNT(*) AS TotalEmployees
    FROM Employees
    WHERE DepartmentID = DepartmentID;
END //
DELIMITER ;
```