**/\*ASSIGNMENT 2\*/**

**/\* USE SUPERSTORES DATABASE \*/**

**#task1**

1. **Describe the data in hand in your own words.**

THIS DATA IS OF A SUPERSTORES .IN THIS WE CAN HAVE FIVE TABLES

OF

* CUSTOMER DETAILS
* MARKETING FACTOR
* ORDER DIMENTION
* PRODUCT DIMENTION
* SHIPPING DIMENTION

1. **Identify and list the Primary Keys and Foreign Keys for this dataset provided to you(In case you don’t find either primary or foreign key, then specially mention this in your answer)**

**#task2**

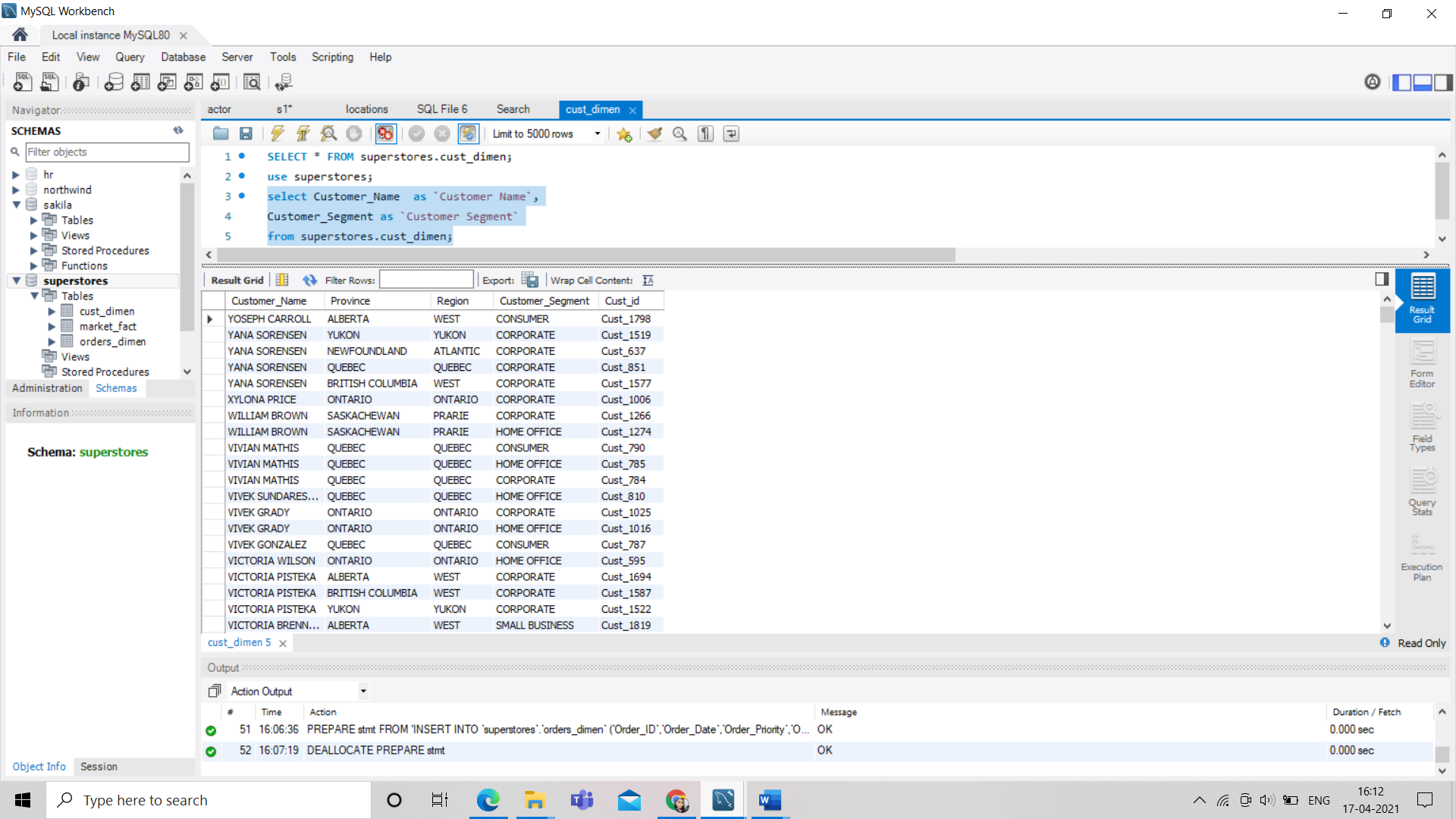
**1. Write a query to display the Customer\_Name and Customer Segment using alias**

**name “Customer Name", "Customer Segment" from table Cust\_dimen.**

select Customer\_Name as `Customer Name`,

Customer\_Segment as `Customer Segment`

from superstores.cust\_dimen;



**2. Write a query to find all the details of the customer from the table cust\_dimen**

**order by desc.**

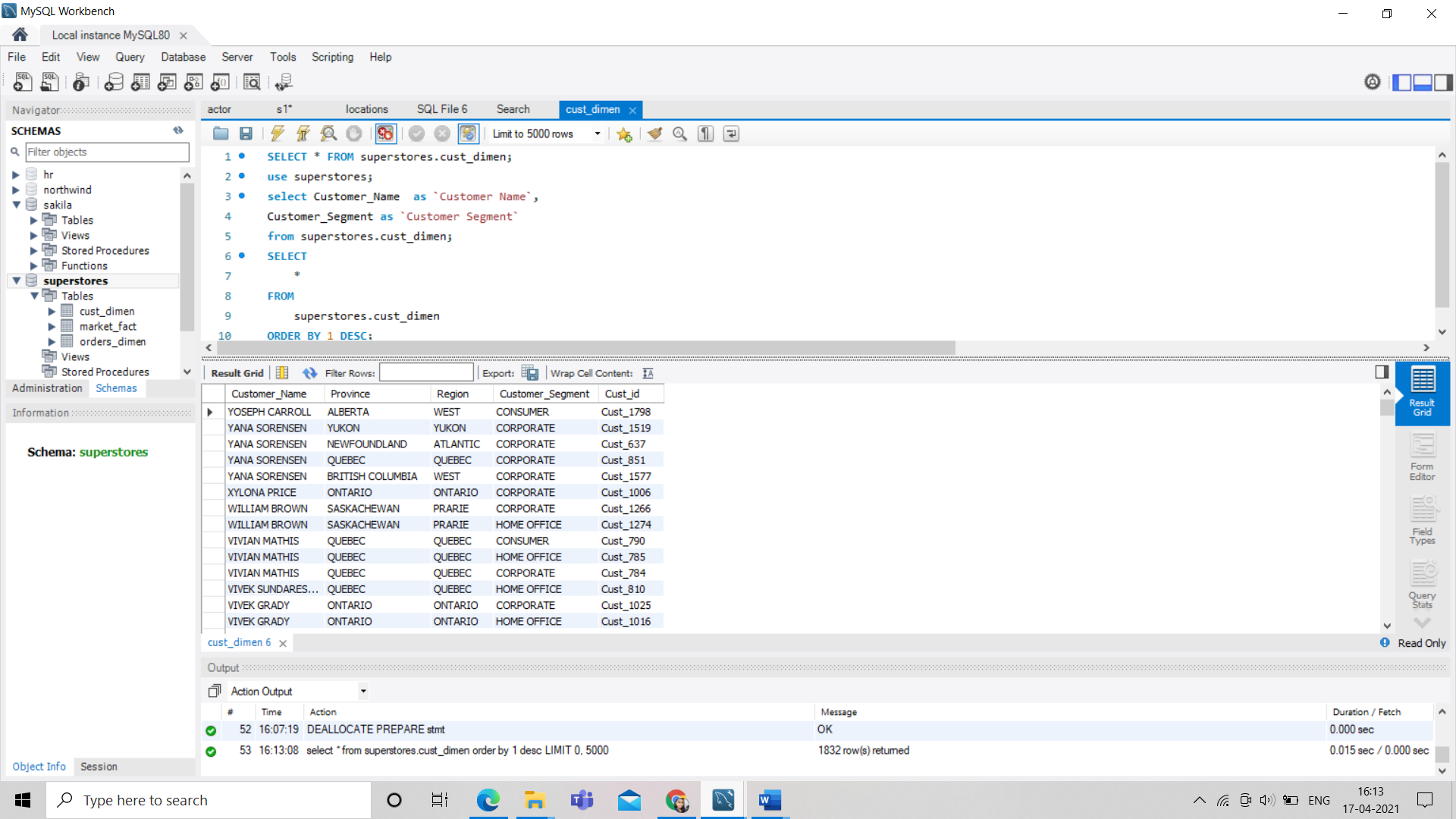
SELECT

\*

FROM

superstores.cust\_dimen

ORDER BY 1 DESC;



**3. Write a query to get the Order ID, Order date from table orders\_dimen where**

**‘Order Priority’ is high.**

SELECT

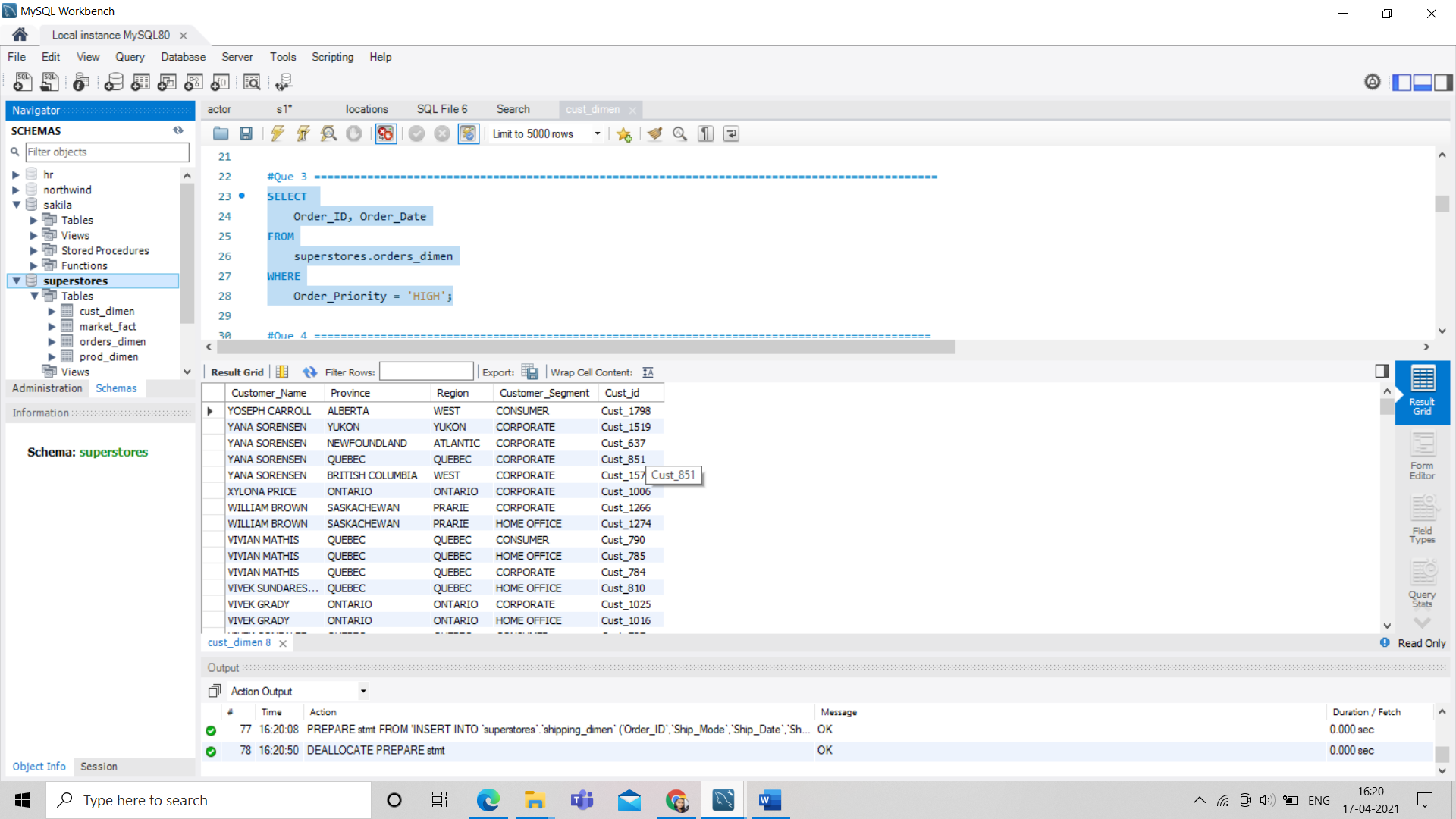
Order\_ID, Order\_Date

FROM

superstores.orders\_dimen

WHERE

Order\_Priority = 'HIGH';



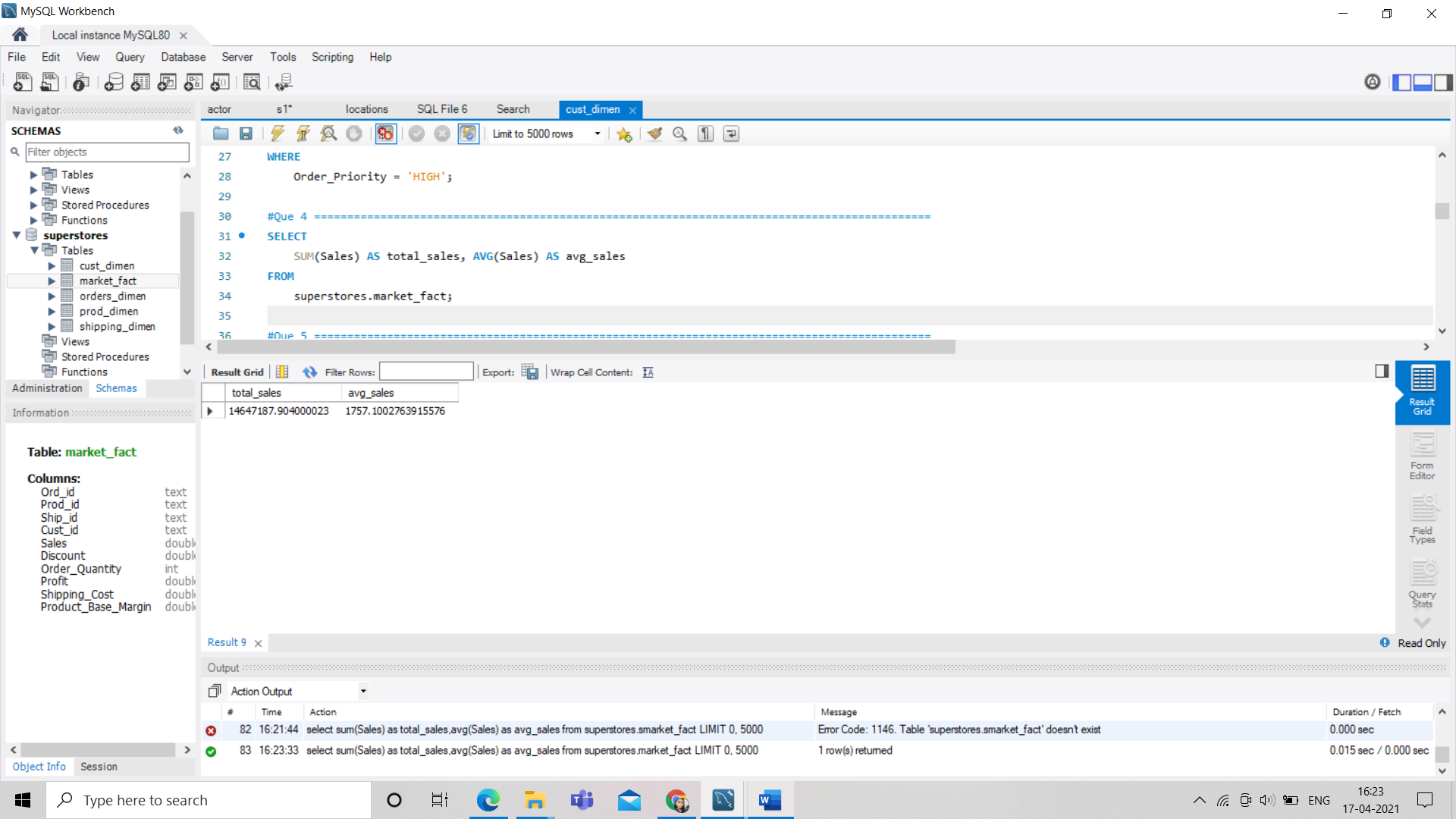
**4. Find the total and the average sales (display total\_sales and avg\_sales)**

SELECT

SUM(Sales) AS total\_sales, AVG(Sales) AS avg\_sales

FROM

superstores.market\_fact;



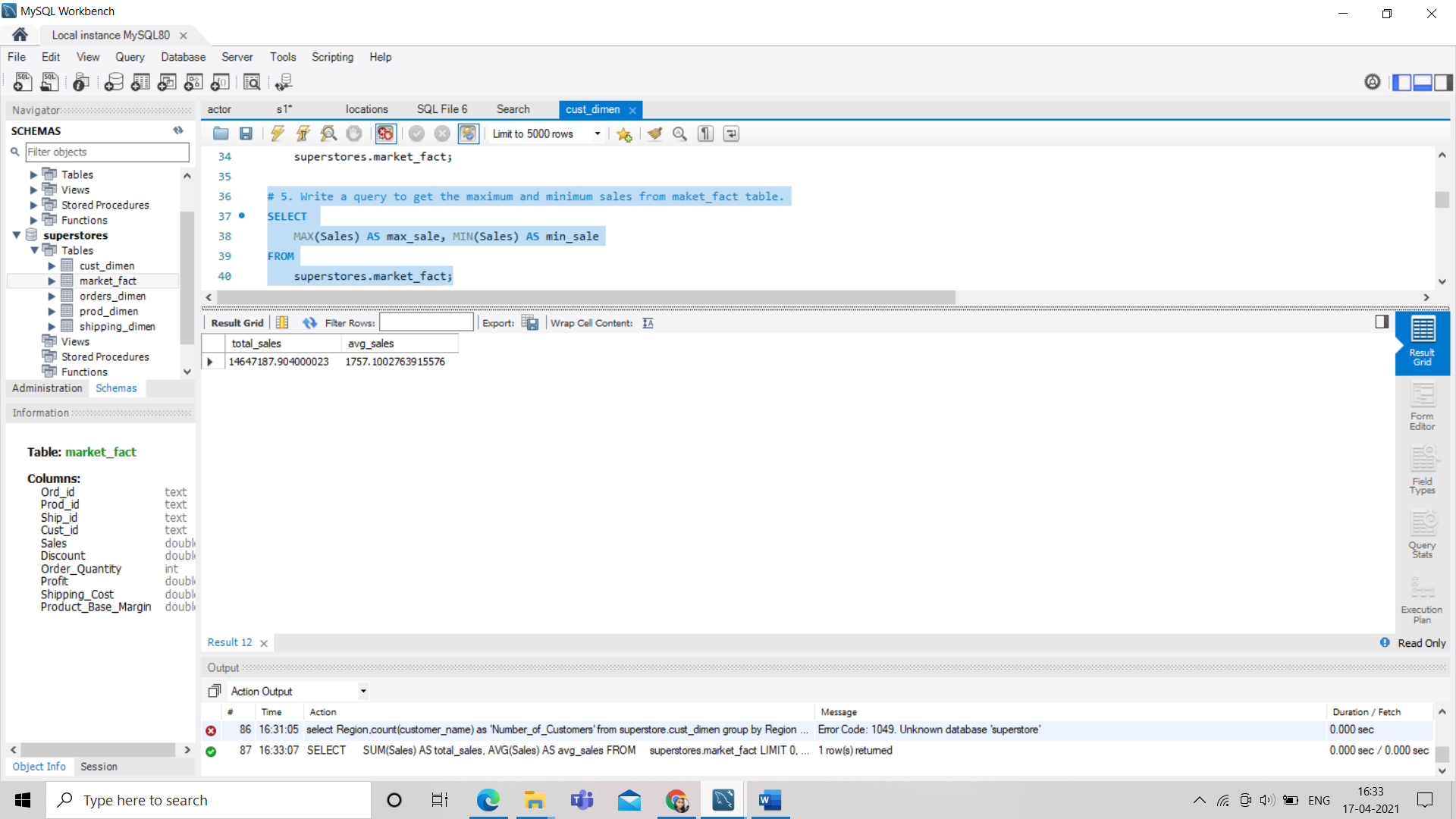
**5. Write a query to get the maximum and minimum sales from maket\_fact table.**

SELECT

MAX(Sales) AS max\_sale, MIN(Sales) AS min\_sale

FROM

superstores.market\_fact;



**6. Display the number of customers in each region in decreasing order of**

**no\_of\_customers. The result should contain columns Region, no\_of\_customers.**

SELECT

Region, COUNT(Customer\_Name) AS 'Number\_of\_Customers'

FROM

superstores.cust\_dimen

GROUP BY Region

ORDER BY COUNT(Customer\_Name) DESC;



**7. Find the region having maximum customers (display the region name and**

**max(no\_of\_customers)**

SELECT

Region, COUNT(customer\_name) AS 'Number\_of\_Customers'

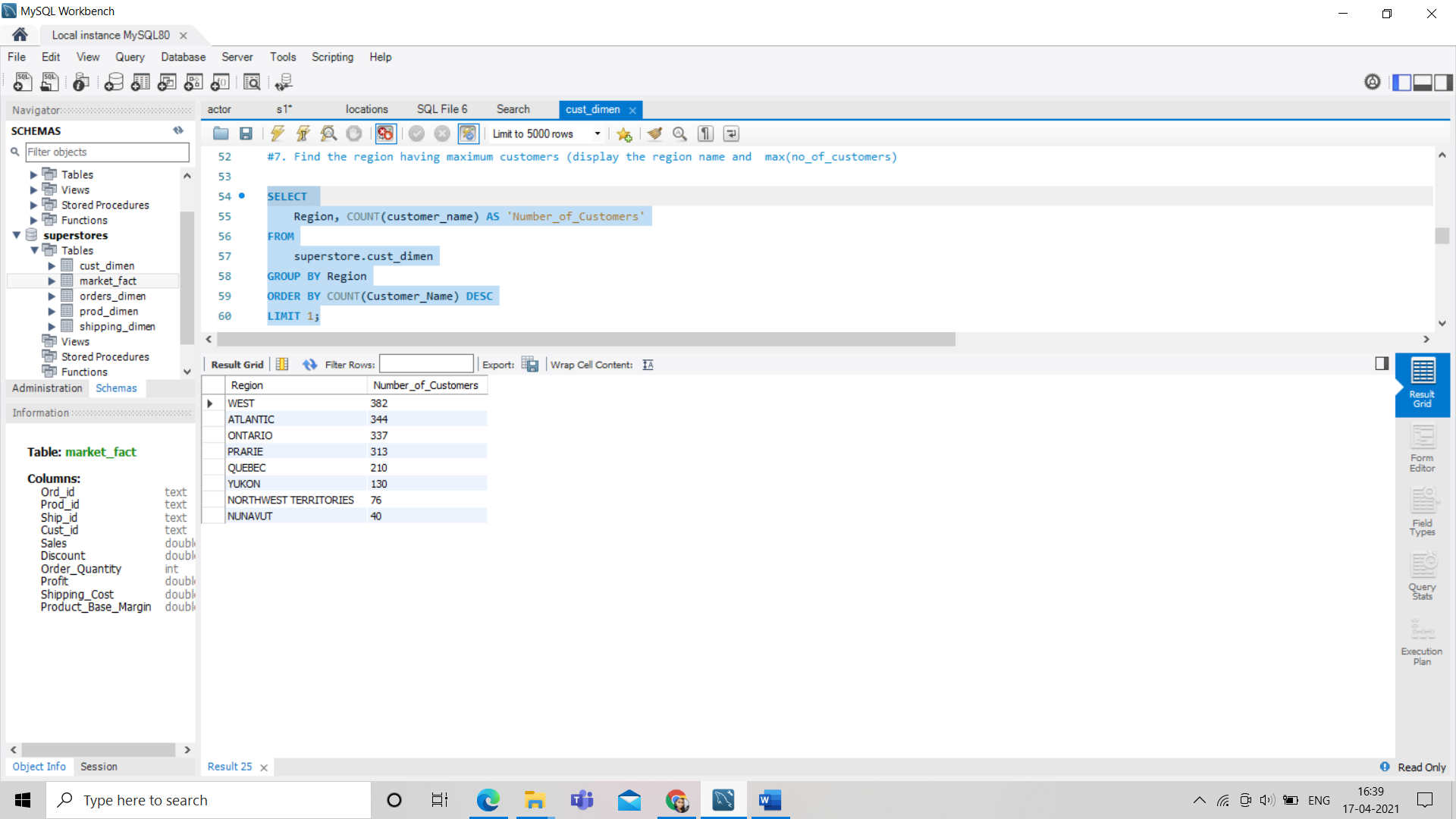
FROM

superstore.cust\_dimen

GROUP BY Region

ORDER BY COUNT(Customer\_Name) DESC

LIMIT 1;



**8. Find all the customers from Atlantic region who have ever purchased ‘TABLES’**

**and the number of tables purchased (display the customer name, no\_of\_tables**

**purchased)**

SELECT

Customer\_Name, COUNT(\*) AS num\_tables

FROM

superstores.market\_fact s,

superstores.cust\_dimen c,

superstores.prod\_dimen p

WHERE

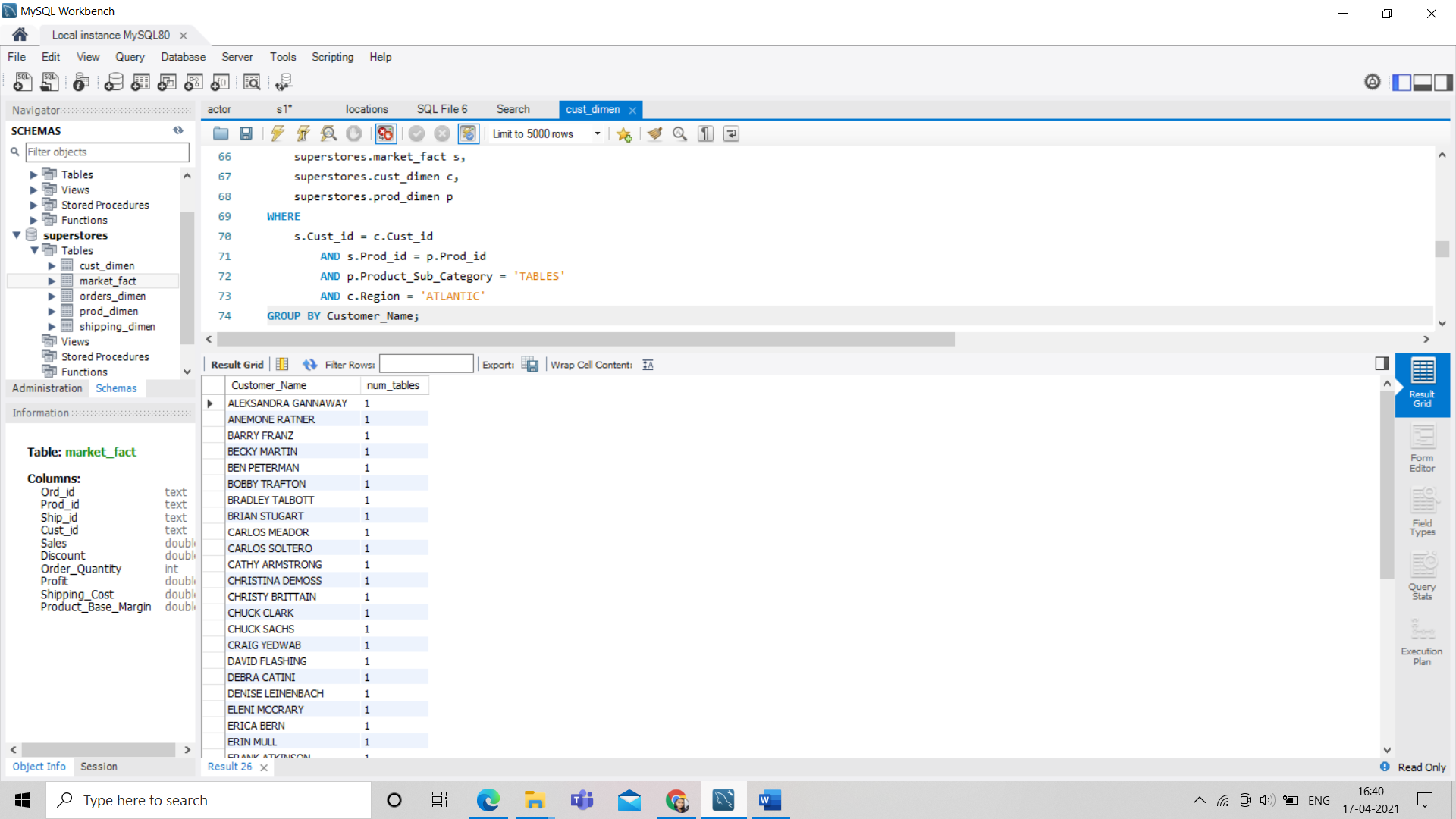
s.Cust\_id = c.Cust\_id

AND s.Prod\_id = p.Prod\_id

AND p.Product\_Sub\_Category = 'TABLES'

AND c.Region = 'ATLANTIC'

GROUP BY Customer\_Name;

H1

**9. Find all the customers from Ontario province who own Small Business. (display**

**the customer name, no of small business owners)**

SELECT

Customer\_Name, COUNT(\*) AS `no of small business owners`

FROM

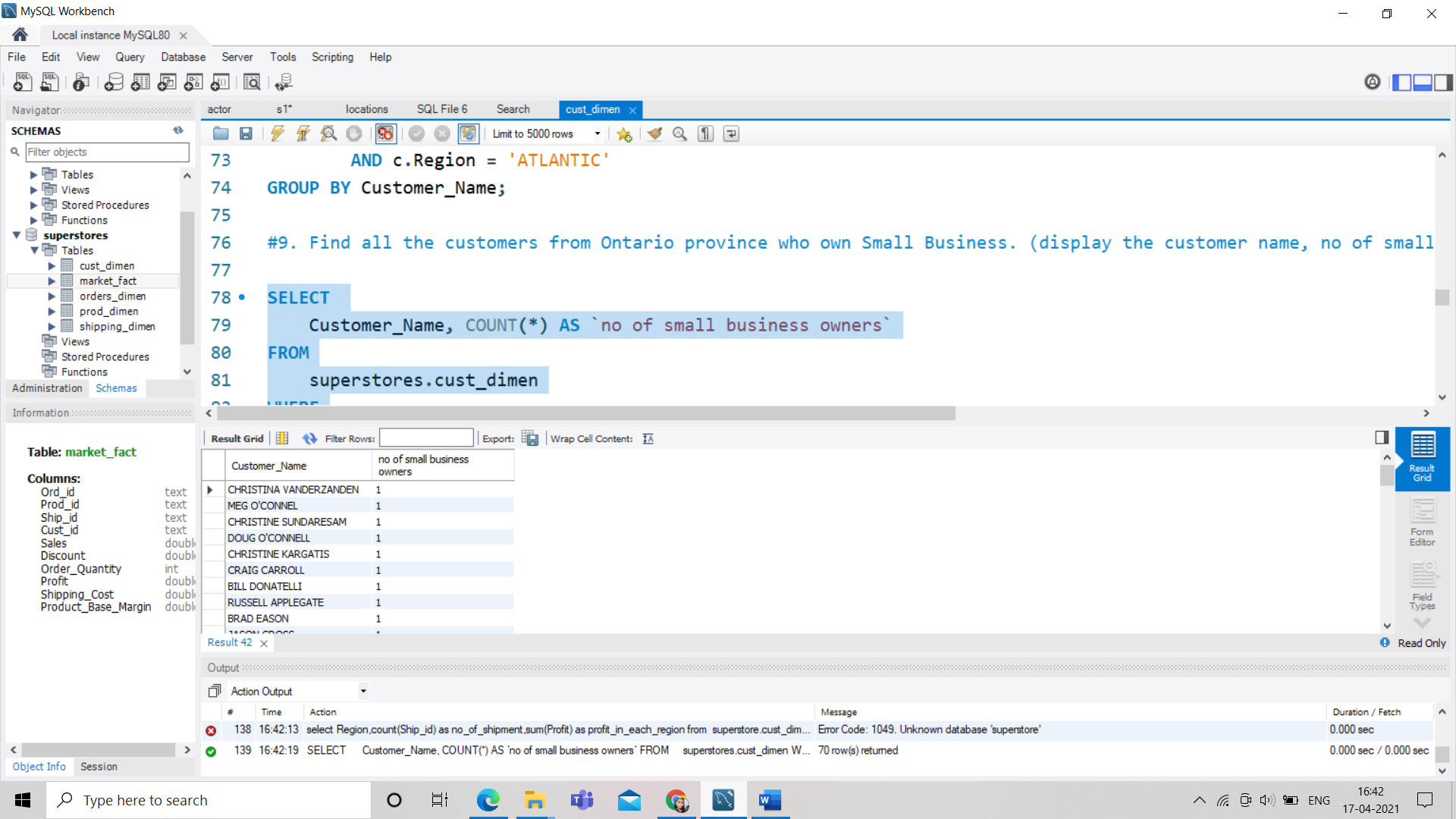
superstores.cust\_dimen

WHERE

Customer\_Segment = 'SMALL BUSINESS'

AND Province = 'ONTARIO'

GROUP BY Customer\_Name;



**10. Find the number and id of products sold in decreasing order of products sold**

**(display product id, no\_of\_products sold)**

SELECT

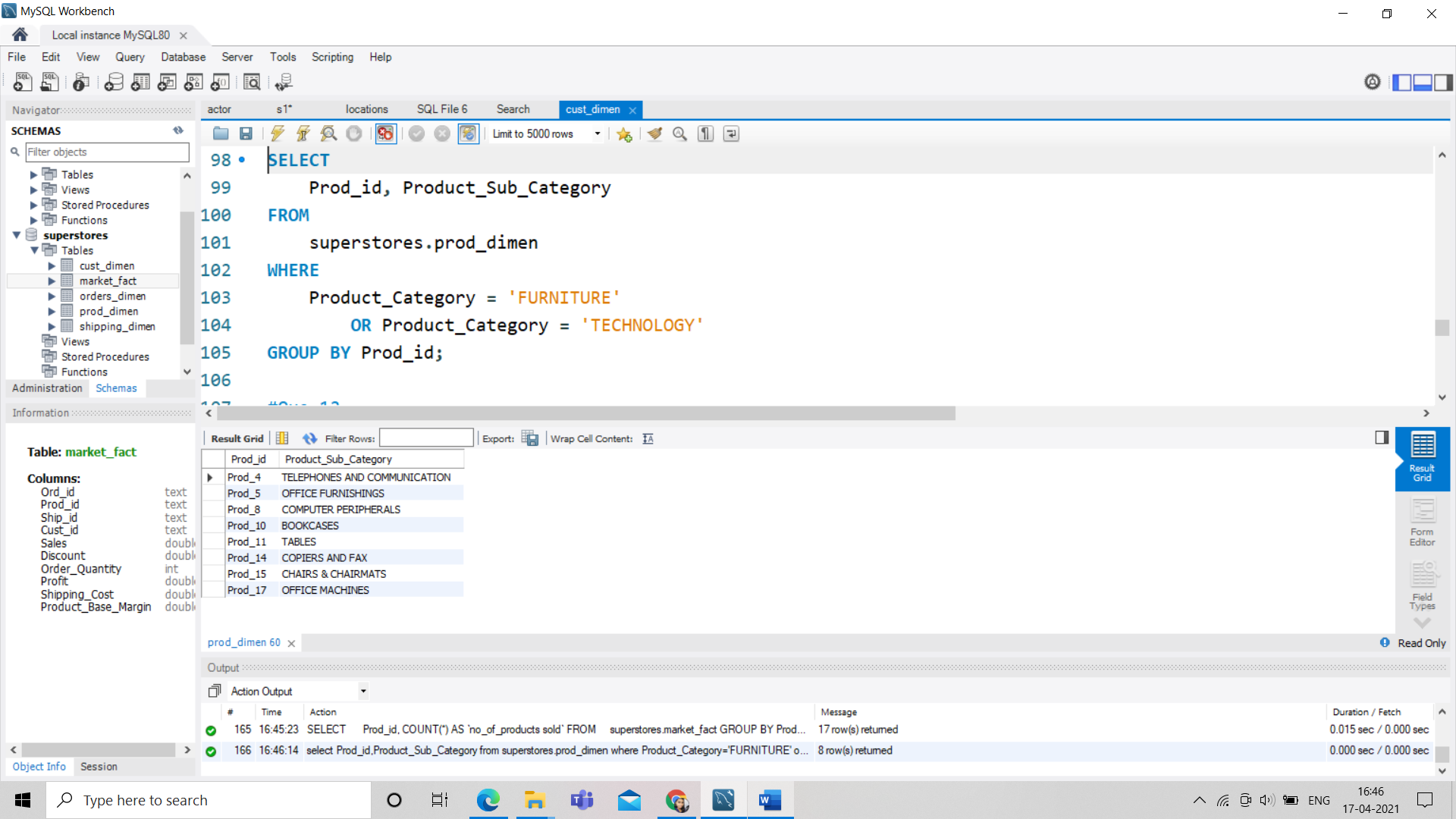
Prod\_id, COUNT(\*) AS `no\_of\_products sold`

FROM

superstores.market\_fact

GROUP BY Prod\_id

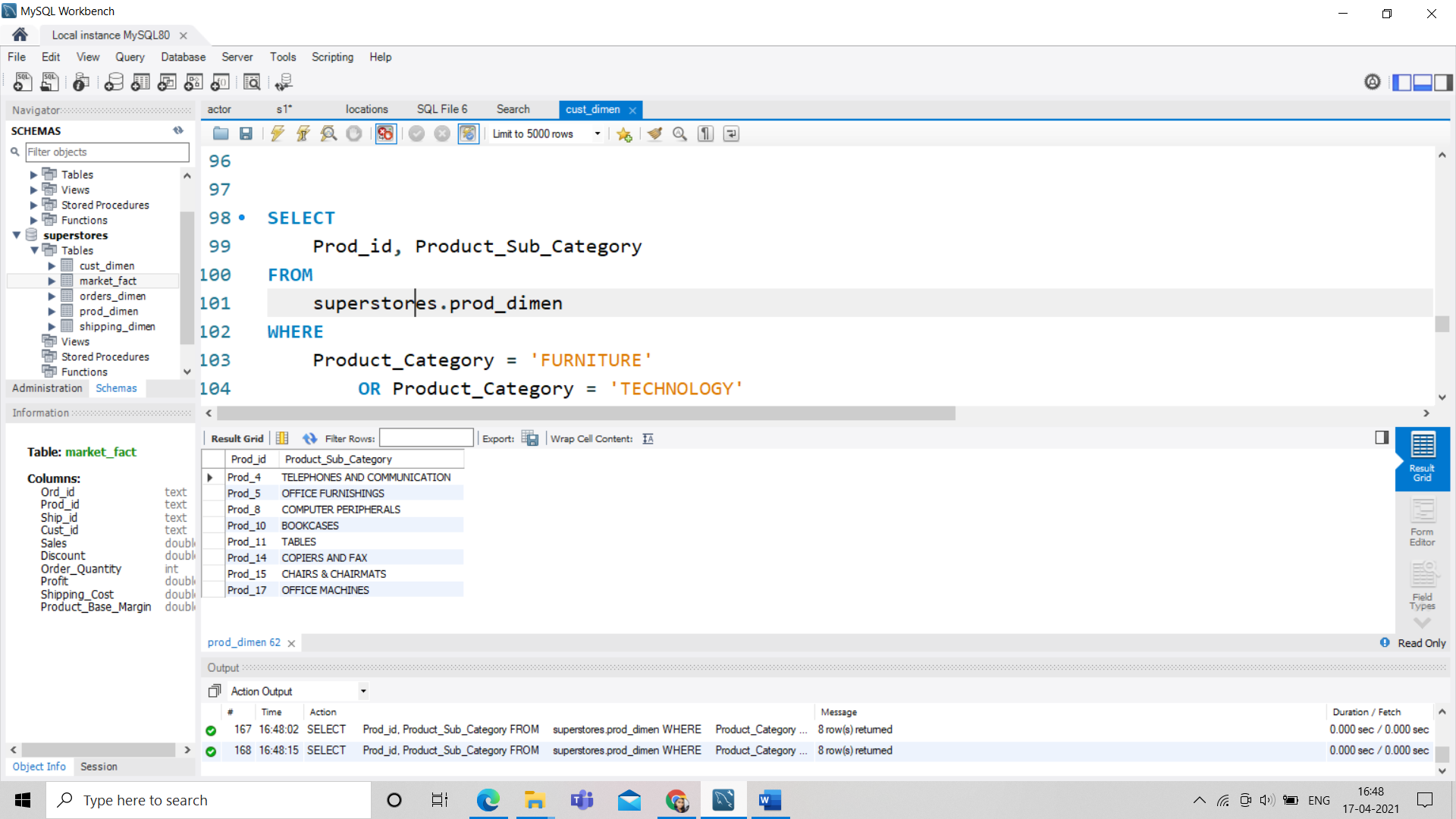
ORDER BY COUNT(`no\_of\_products sold`) DESC;



**11. Display product Id and product sub category whose produt category belongs to**

**Furniture and Technlogy. The result should contain columns product id, product**

**sub category.**



**12. Display the product categories in descending order of profits (display the product**

**category wise profits i.e. product\_category, profits)?**

SELECT

Product\_Category, Profit

FROM

superstores.market\_fact s,

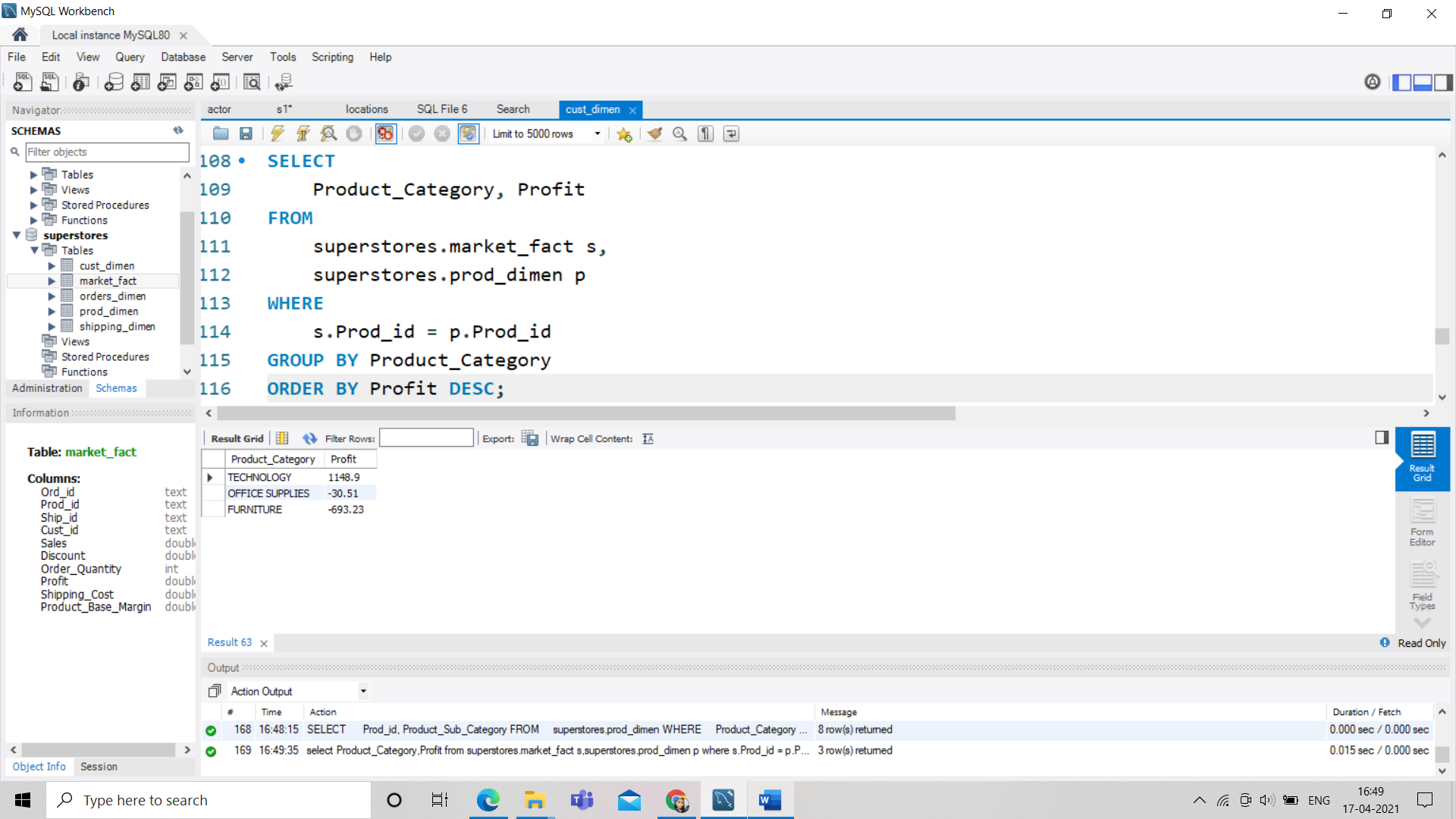
superstores.prod\_dimen p

WHERE

s.Prod\_id = p.Prod\_id

GROUP BY Product\_Category

ORDER BY Profit DESC;



**13. Display the product category, product sub-category and the profit within each**

**subcategory in three columns.**

SELECT

Product\_Category, Product\_Sub\_Category, Profit

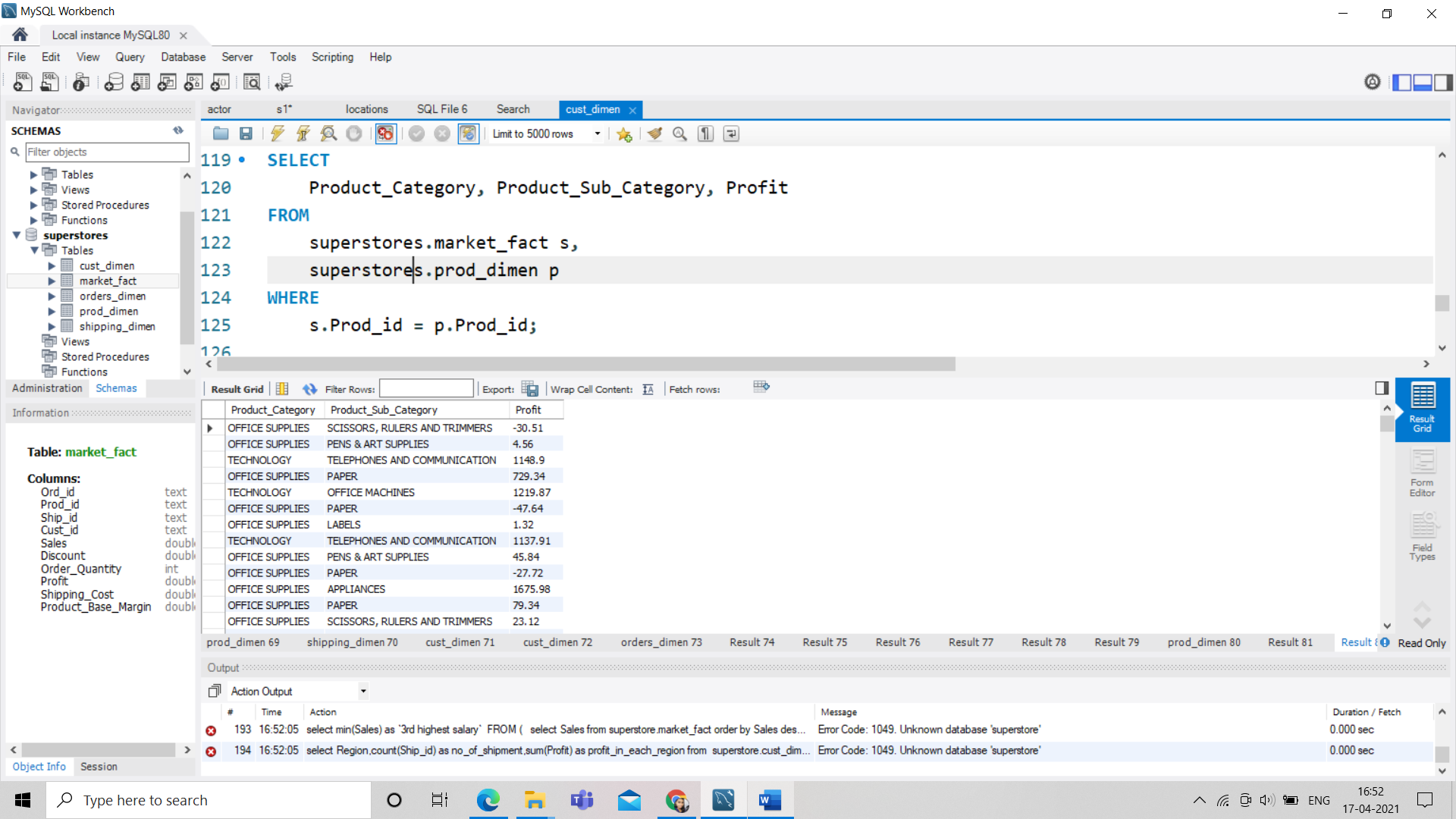
FROM

superstores.market\_fact s,

superstores.prod\_dimen p

WHERE

s.Prod\_id = p.Prod\_id;



**14. Display the order date, order quantity and the sales for the order.**

SELECT

Order\_Date, Order\_Quantity, Sales

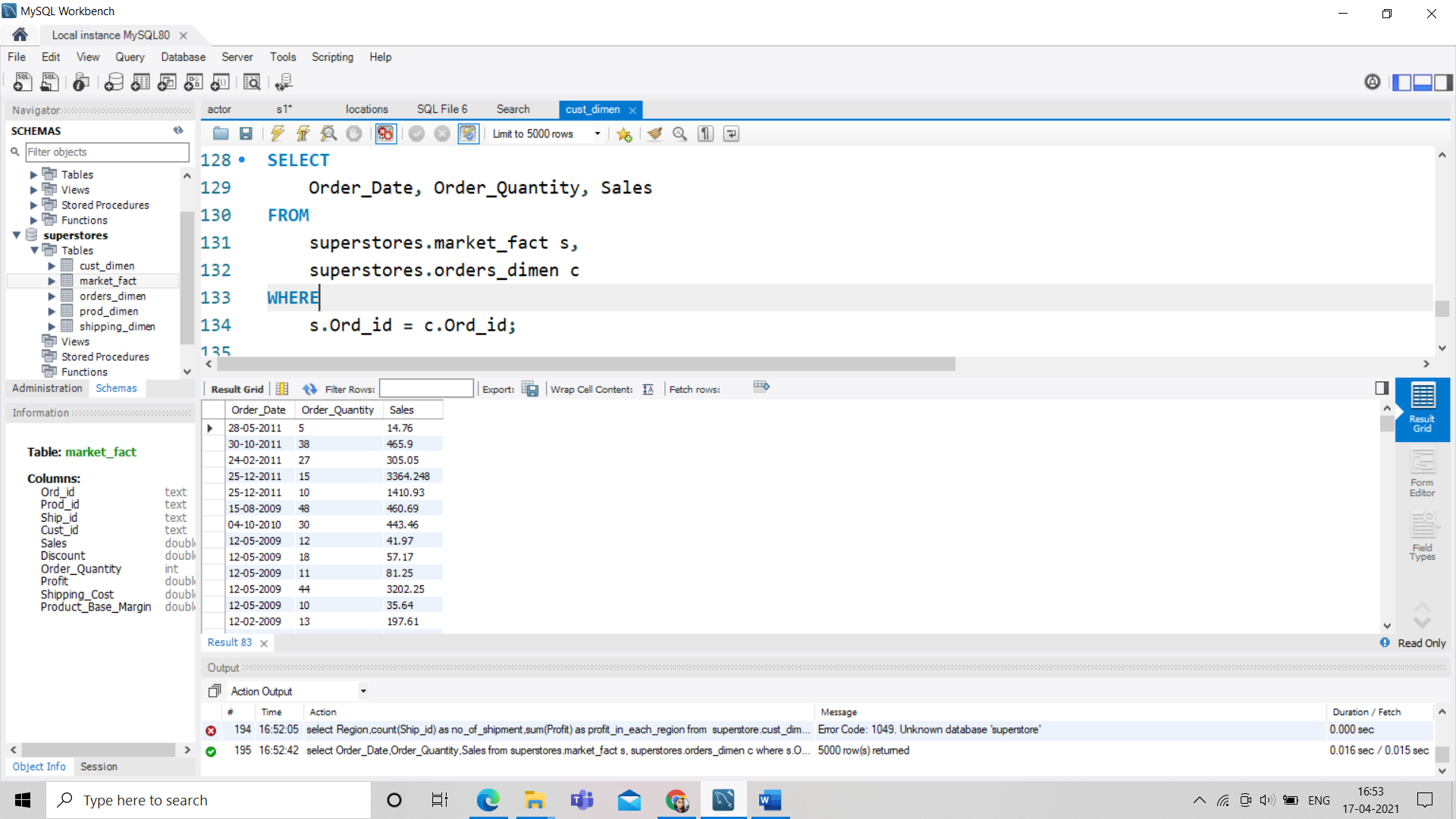
FROM

superstores.market\_fact s,

superstores.orders\_dimen c

WHERE

s.Ord\_id = c.Ord\_id;



**15. Display the names of the customers whose name contains the**

**i) Second letter as ‘R’**

**ii) Fourth letter as ‘D’**

SELECT

Customer\_Name

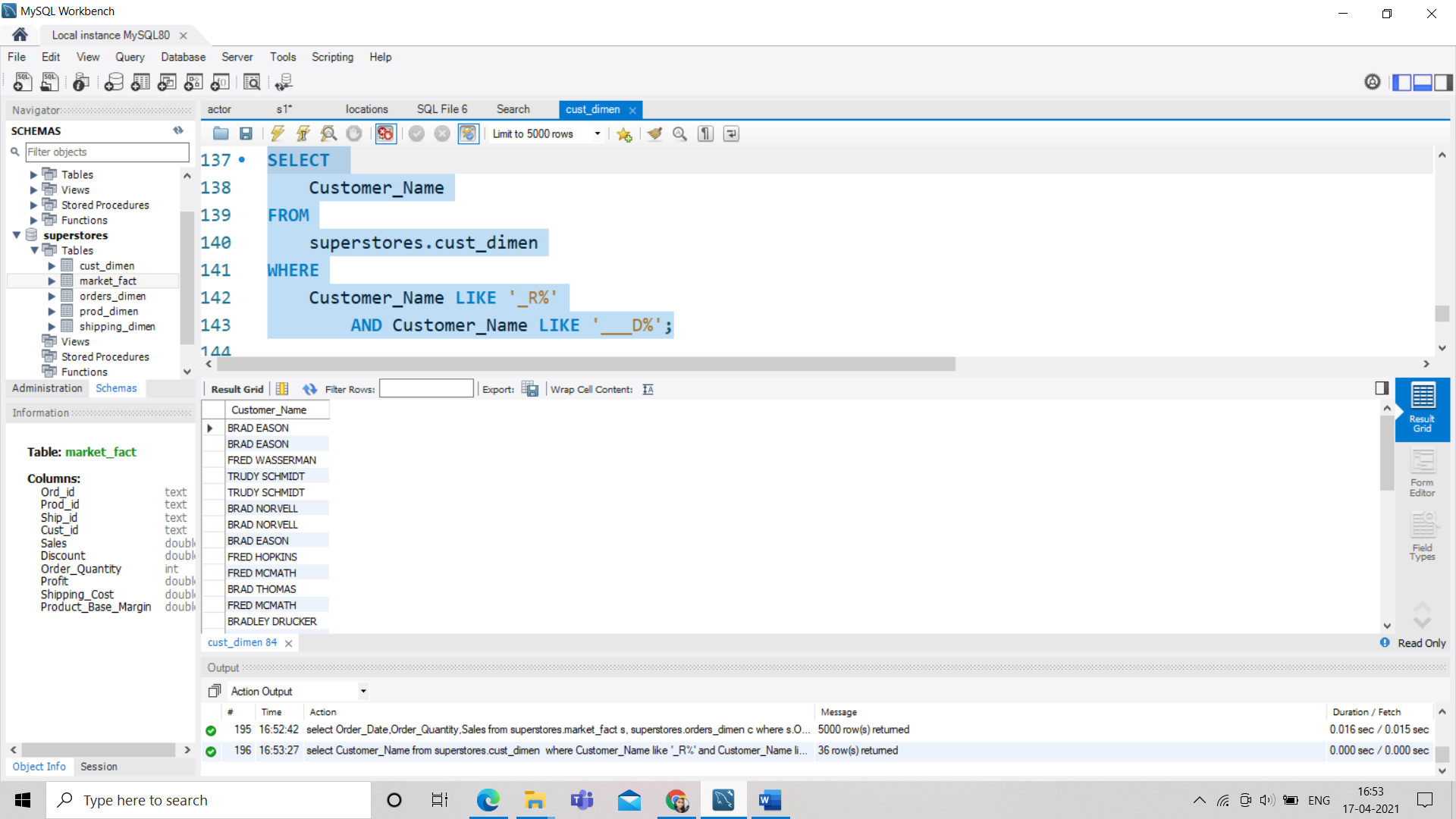
FROM

superstores.cust\_dimen

WHERE

Customer\_Name LIKE '\_R%'

AND Customer\_Name LIKE '\_\_\_D%';



**16. Write a SQL query to to make a list with Cust\_Id, Sales, Customer Name and**

**their region where sales are between 1000 and 5000.**

SELECT

c.Cust\_id, s.Sales, c.Customer\_Name, c.Region

FROM

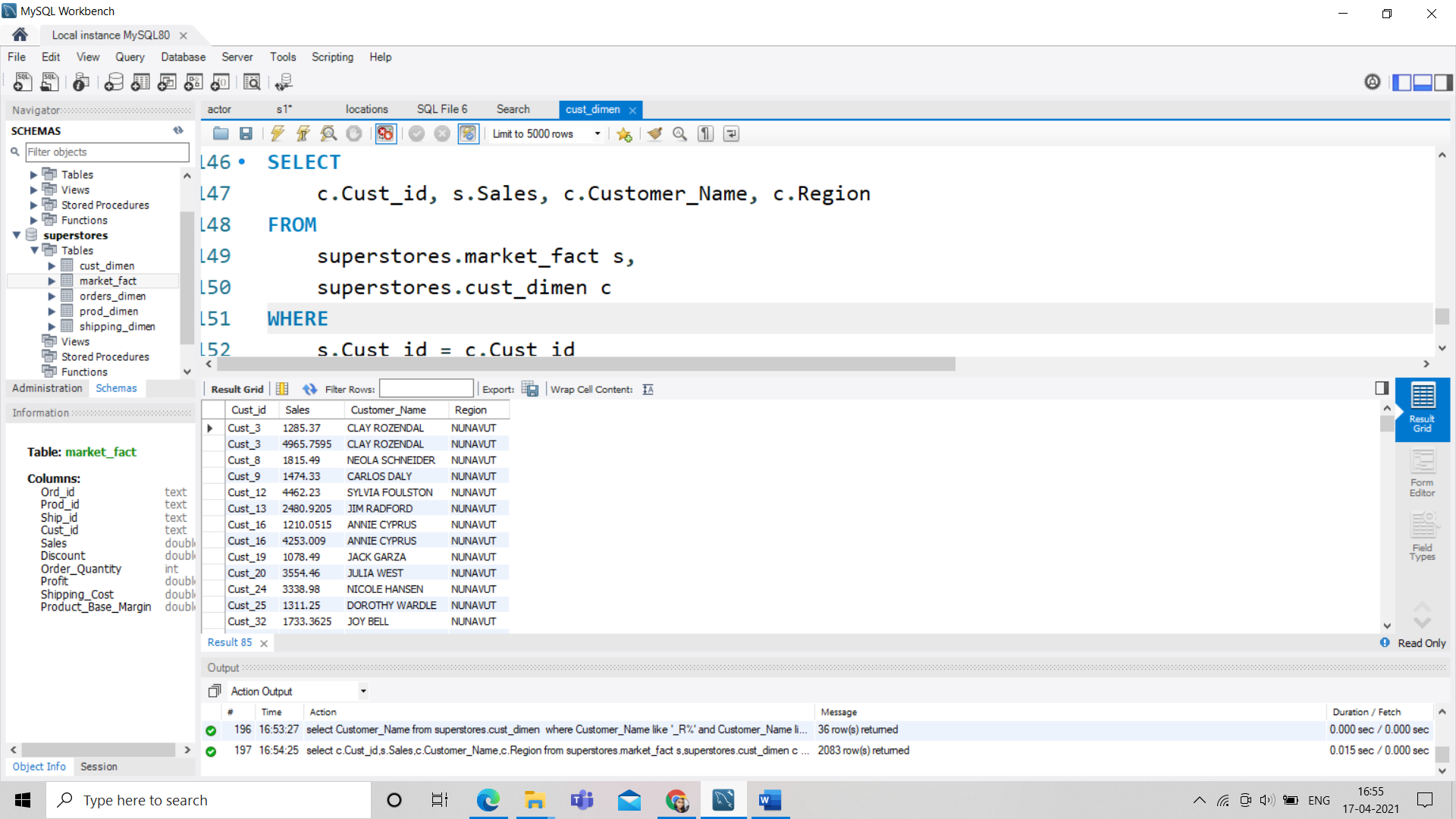
superstores.market\_fact s,

superstores.cust\_dimen c

WHERE

s.Cust\_id = c.Cust\_id

AND Sales BETWEEN 1000 AND 5000;



**17. Write a SQL query to find the 3rd highest sales.**

SELECT

MIN(Sales) AS `3rd highest salary`

FROM

(SELECT

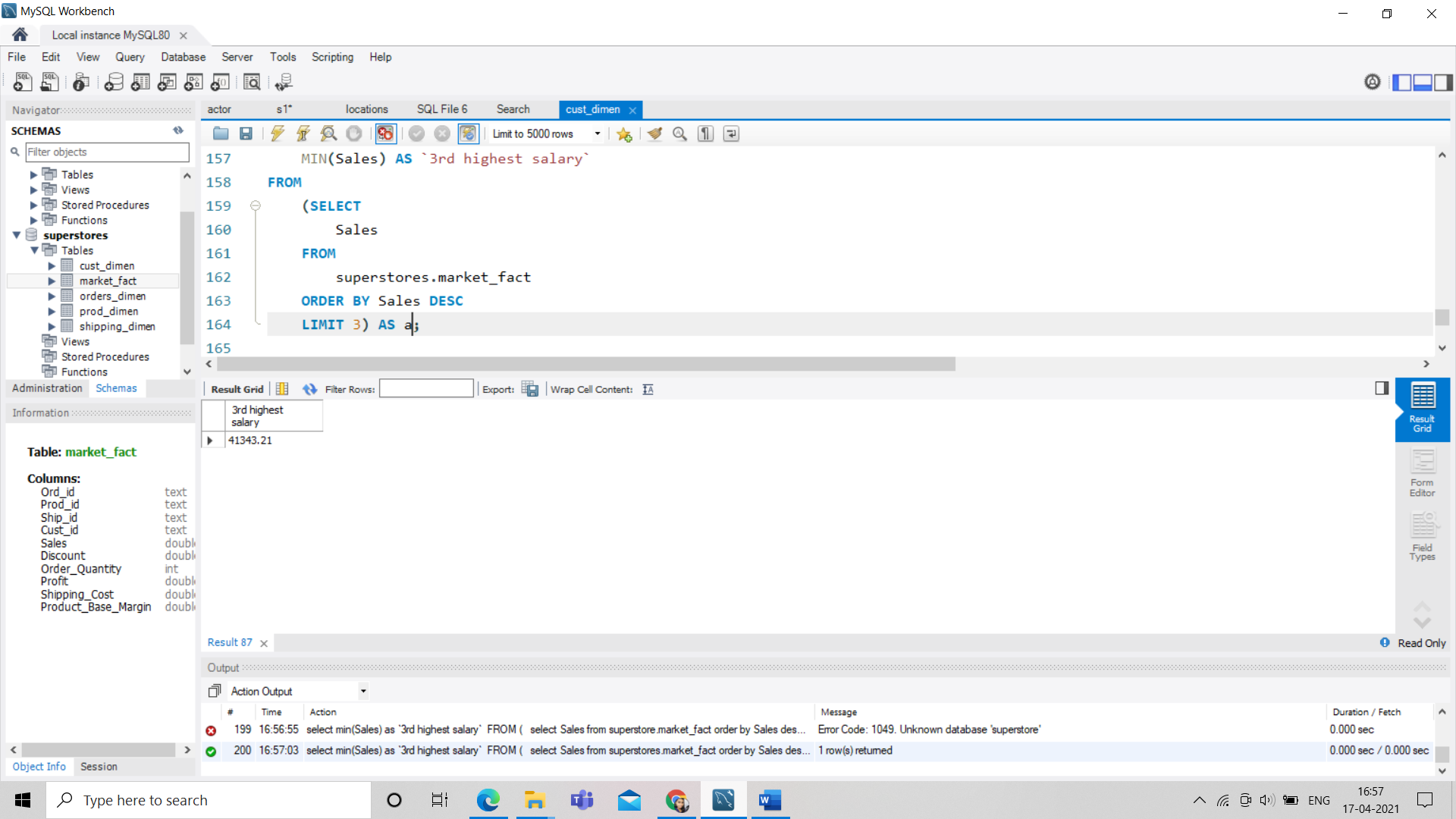
Sales

FROM

superstores.market\_fact

ORDER BY Sales DESC

LIMIT 3) AS a;



**18. Where is the least profitable product subcategory shipped the most? For the least**

**profitable product sub-category, display the region-wise no\_of\_shipments and the profit made in each region in decreasing order of profits (i.e. region,**

**no\_of\_shipments, profit\_in\_each\_region)**

**SELECT**

**Region,**

**COUNT(Ship\_id) AS no\_of\_shipment,**

**SUM(Profit) AS profit\_in\_each\_region**

**FROM**

**superstores.cust\_dimen c,**

**superstores.market\_fact s,**

**superstores.prod\_dimen p**

**WHERE**

**c.Cust\_id = s.Cust\_id**

**AND s.Prod\_id = p.Prod\_id**

**GROUP BY Region**

**ORDER BY profit\_in\_each\_region ASC;**

