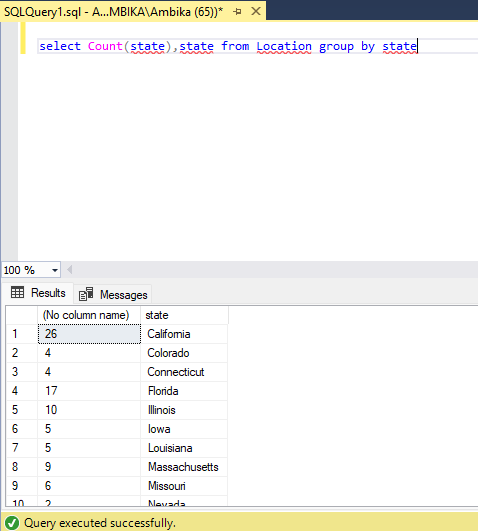
SQL

MANDATORY CASE STUDY 1

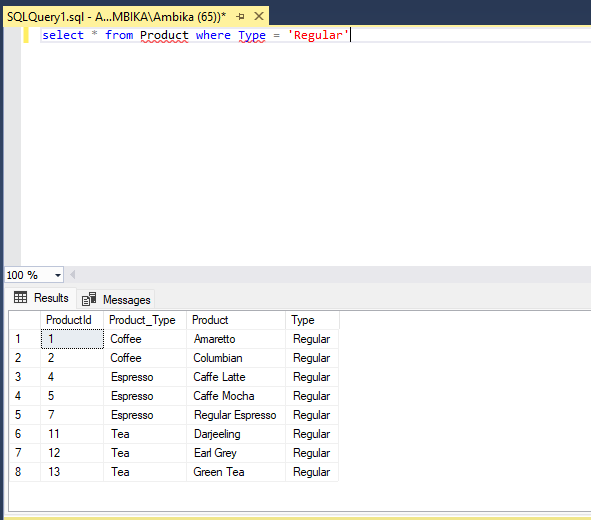
**Submitted by: Ambika B**

Tasks To Be Performed:

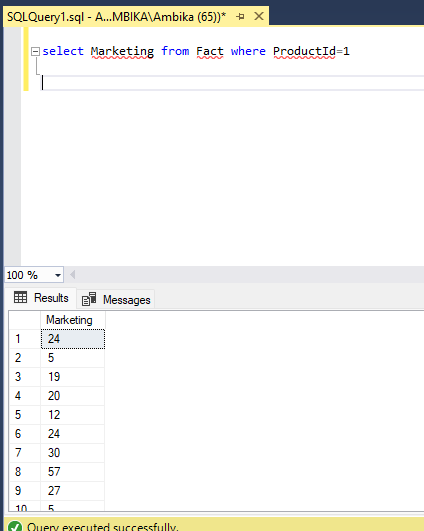
**1. Display the number of states present in the LocationTable.**

****

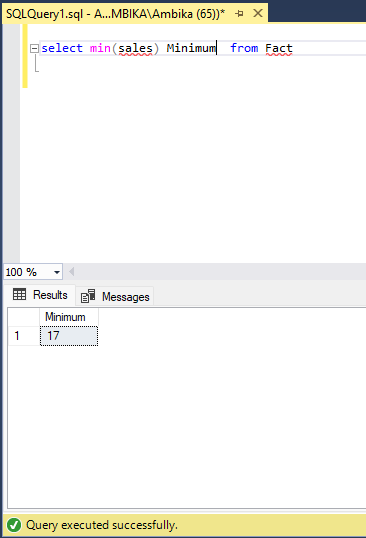
**2. How many products are of regular type?**

****

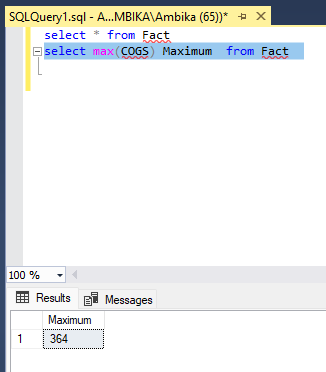
**3. How much spending has been done on marketing of product ID 1?**

****

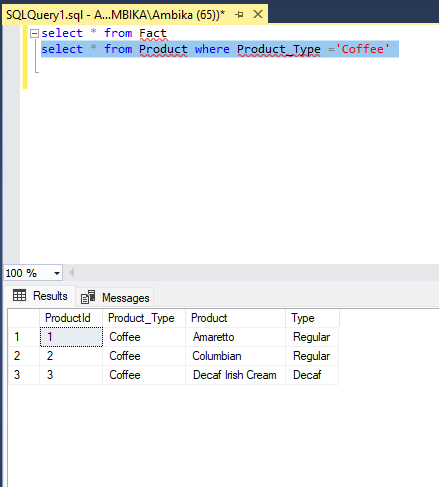
**4. What is the minimum sales of a product?**

****

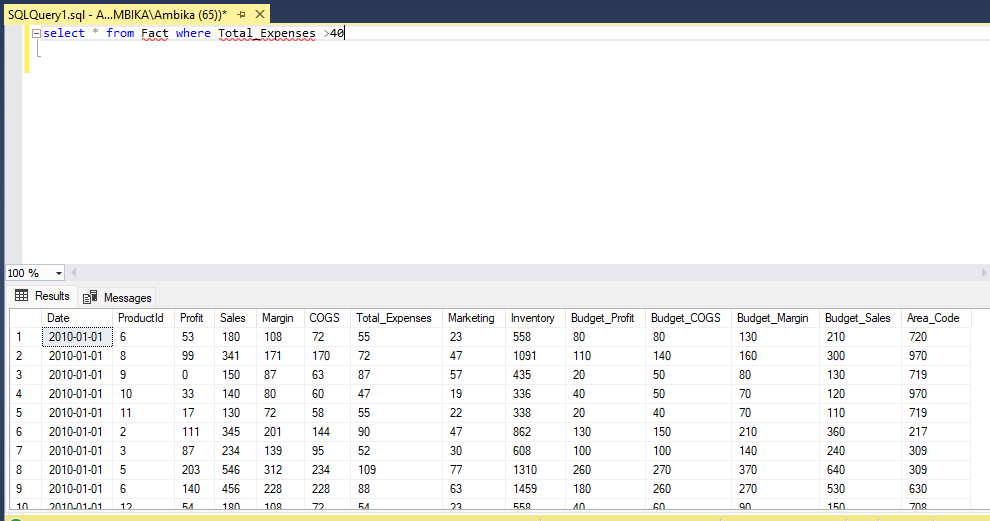
**5. Display the max Cost of Good Sold (COGS).**

****

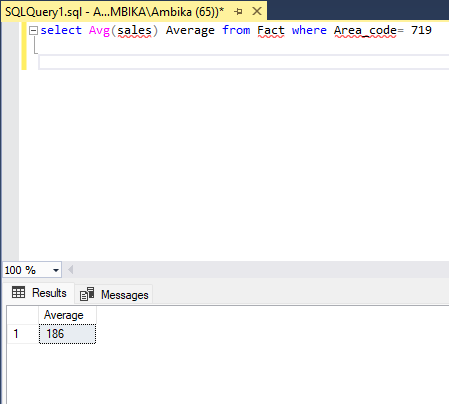
**6. Display the details of the product where product type is coffee.**

****

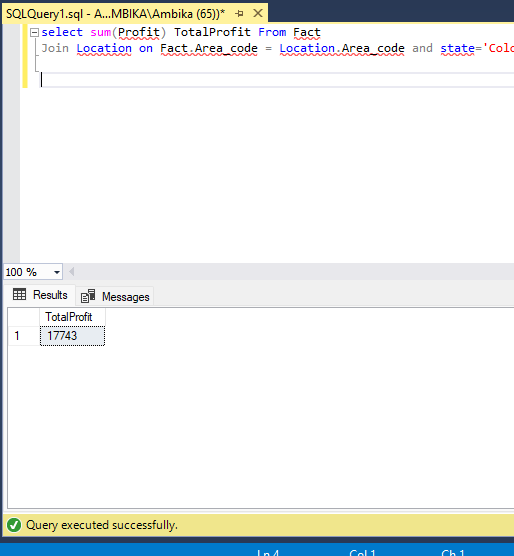
**7. Display the details where total expenses are greater than 40.**

****

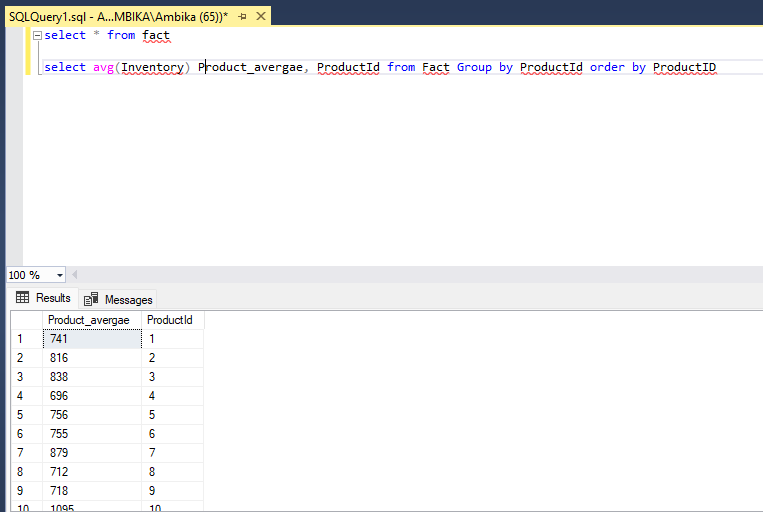
**8. What is the average sales in area code 719?**

****

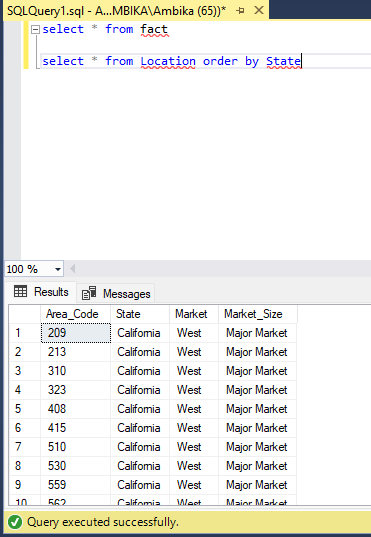
**9. Find out the total profit generated by Colorado state.**

****

**10. Display the average inventory for each product ID.**

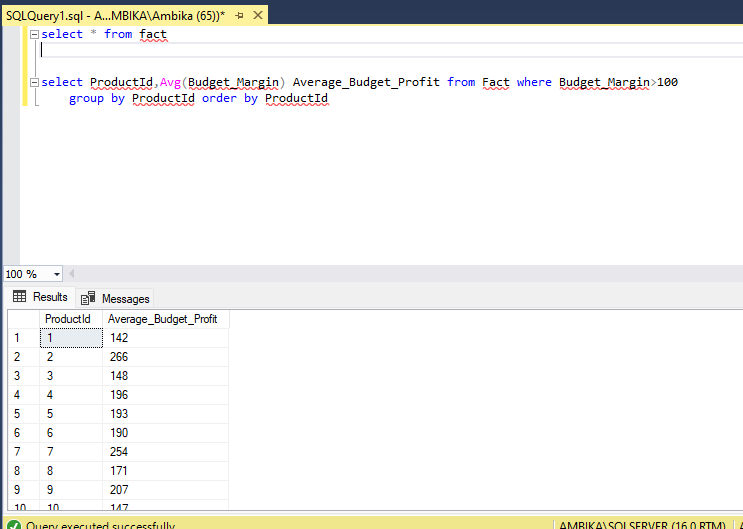
****

**11. Display state in a sequential order in a Location Table.**

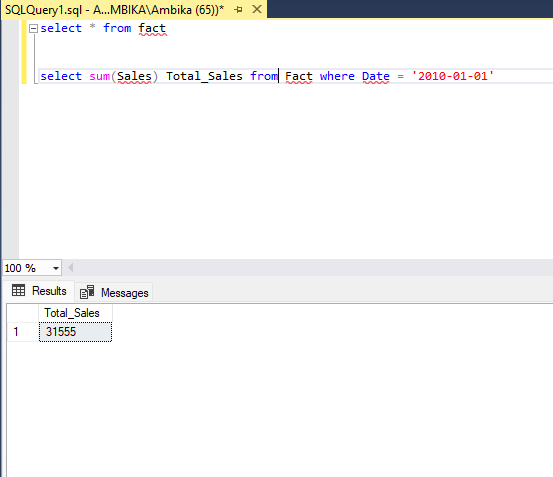
****

**12. Display the average budget of the Product where the average budget**

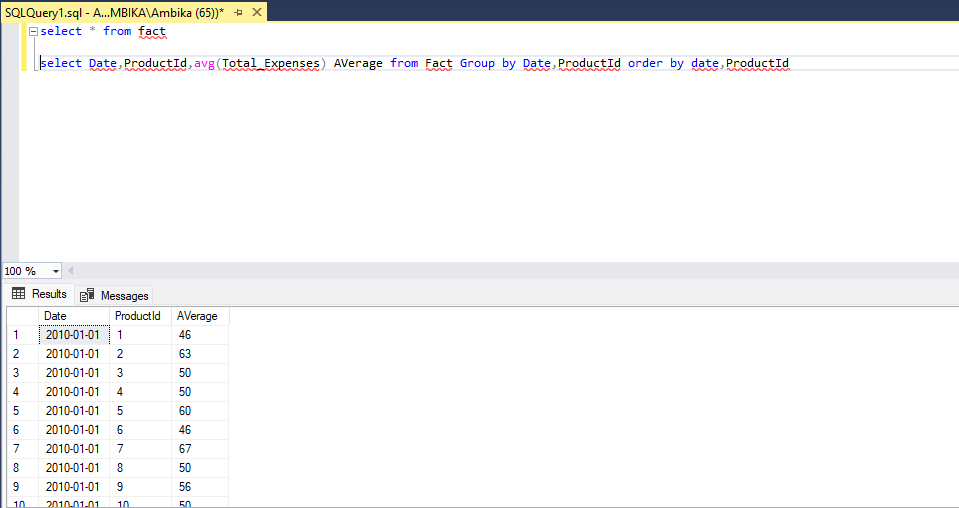
**margin should be greater than 100.**

****

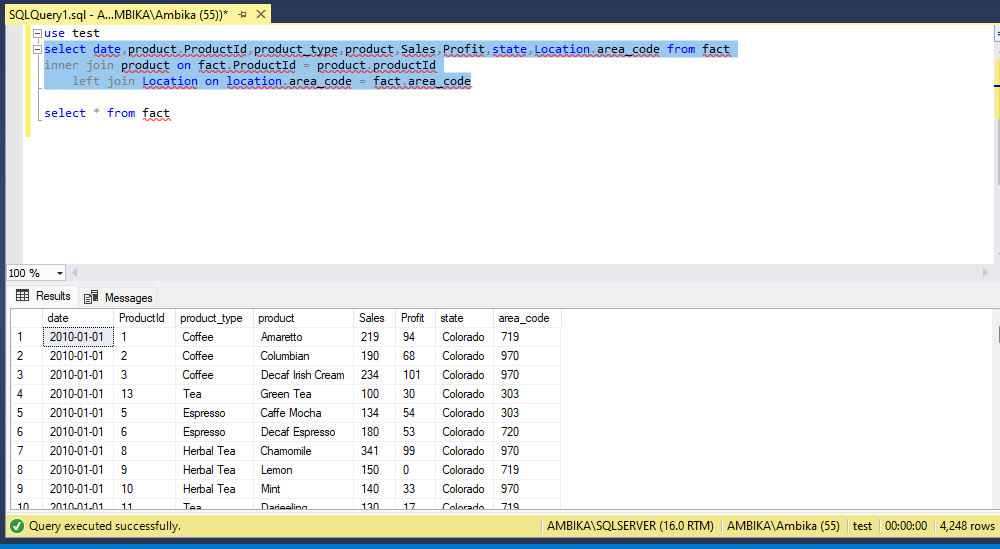
**13. What is the total sales done on date 2010-01-01?**

****

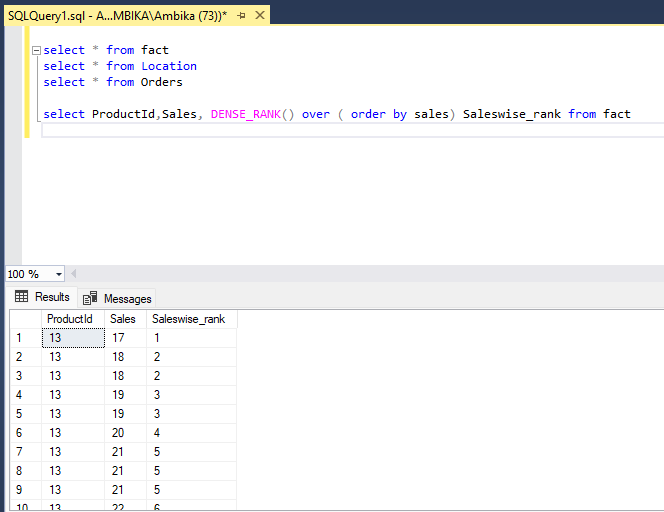
**14. Display the average total expense of each product ID on an individual date.**

****

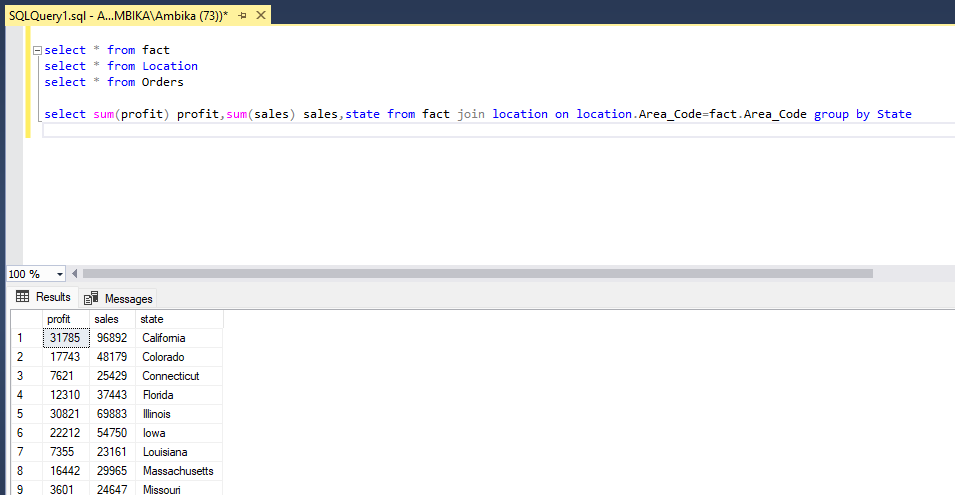
**15. Display the table with the following attributes such as date, productID, product\_type, product, sales, profit, state, area\_code.**

****

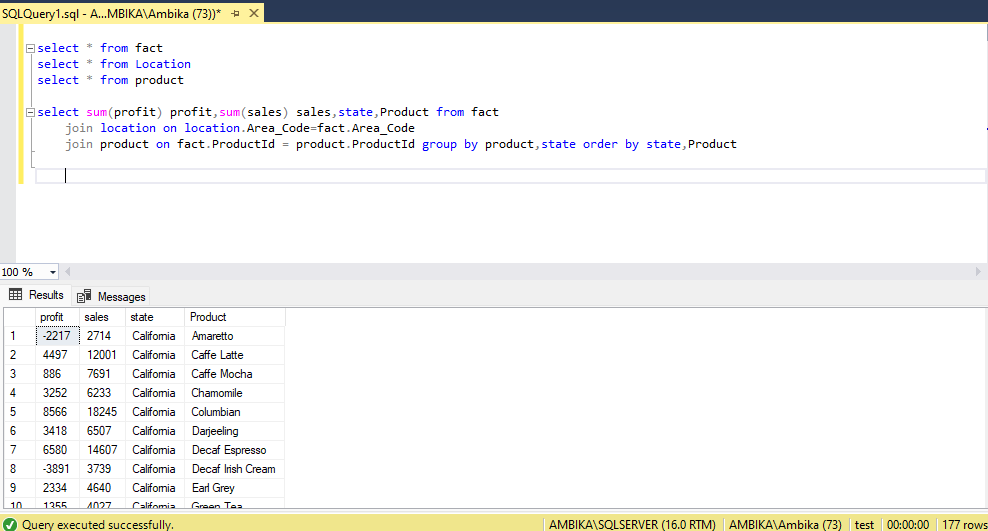
**16. Display the rank without any gap to show the sales wise rank.**

****

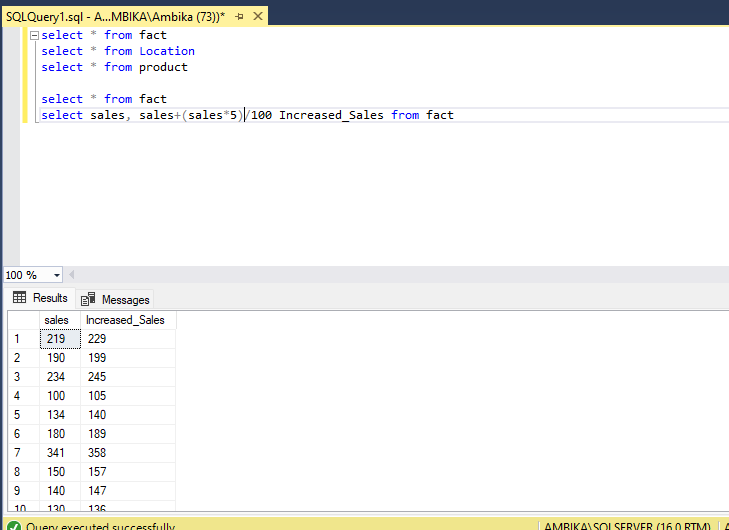
**17. Find the state wise profit and sales.**

****

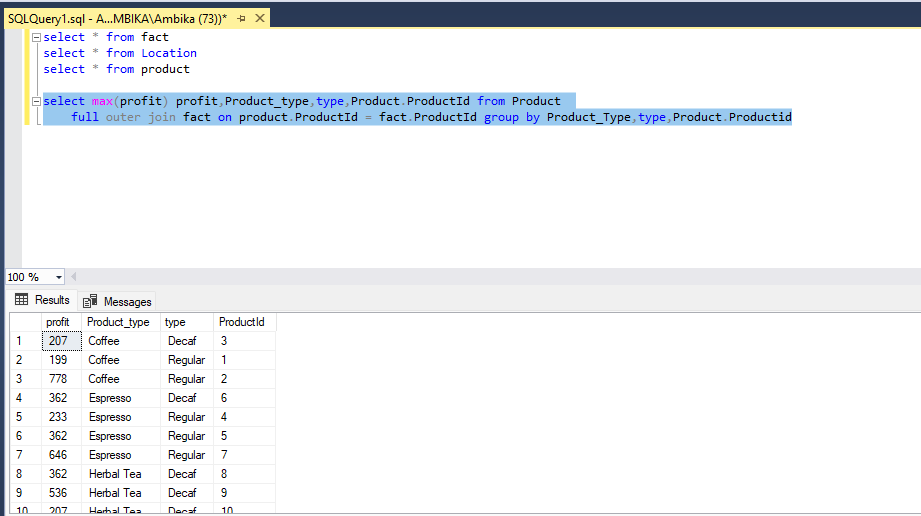
**18. Find the state wise profit and sales along with the productname.**

****

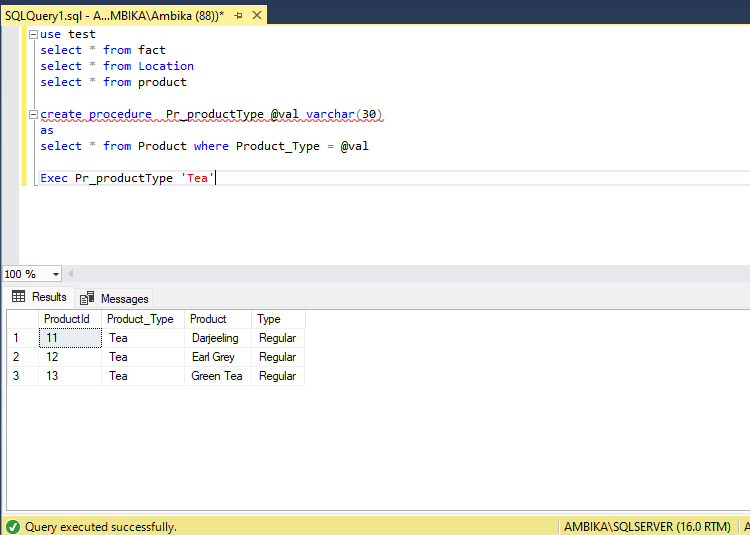
**19. If there is an increase in sales of 5%, calculate the increasedsales.**

****

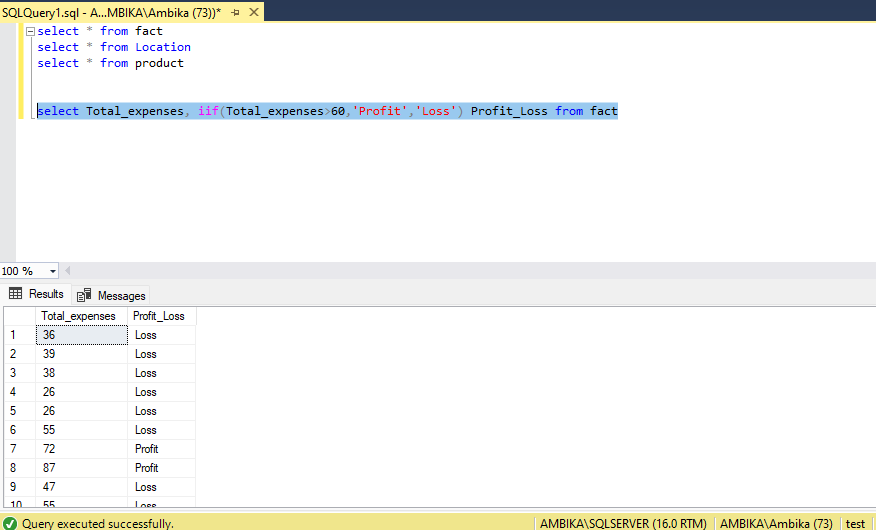
**20. Find the maximum profit along with the product ID and producttype.**

****

**21. Create a stored procedure to fetch the result according to the product type from Product Table.**

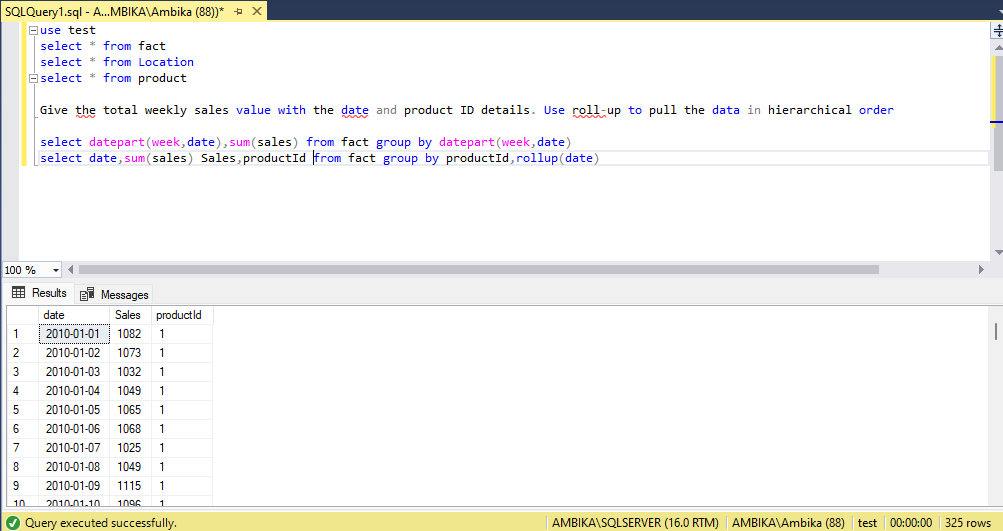
****

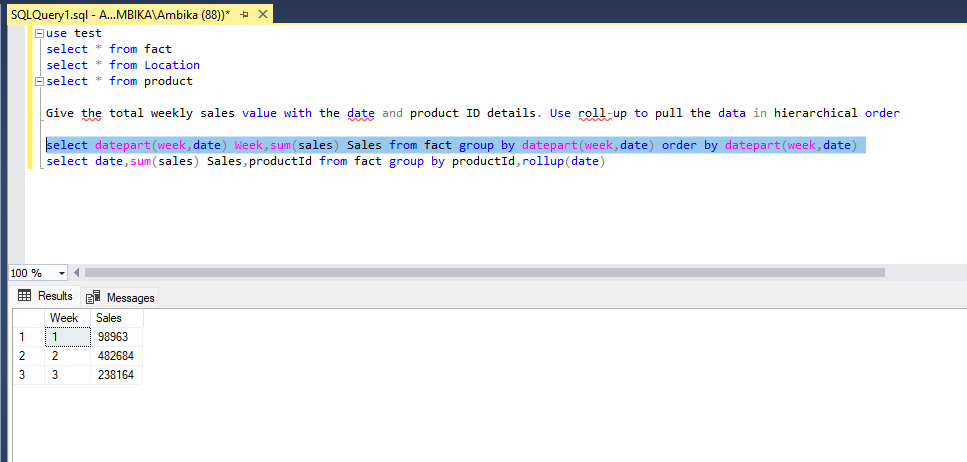
**22. Write a query by creating a condition in which if the total expenses is lessthan60 then it is a profit or else loss.**

****

**23. Give the total weekly sales value with the date and product ID details. Use roll-up to pull the data in hierarchical order.**

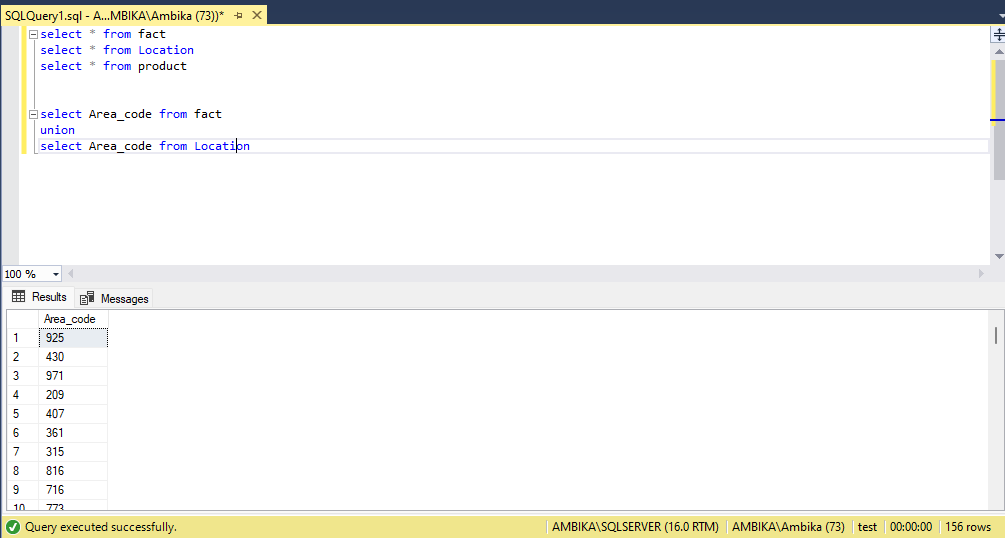
**\*Sending 2 answers as not sure which one is correct**

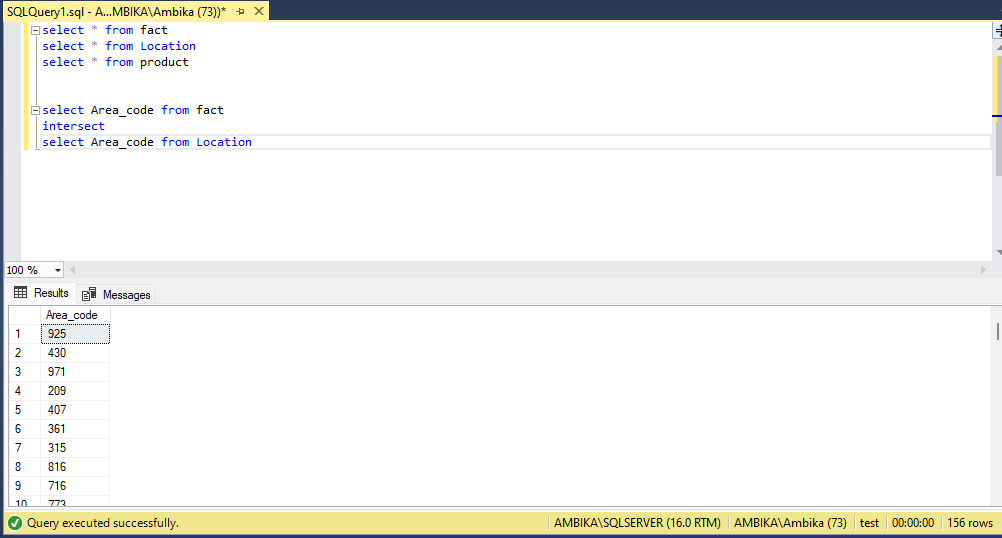
****

****

**24. Apply union and intersection operator on the tables which consist of**

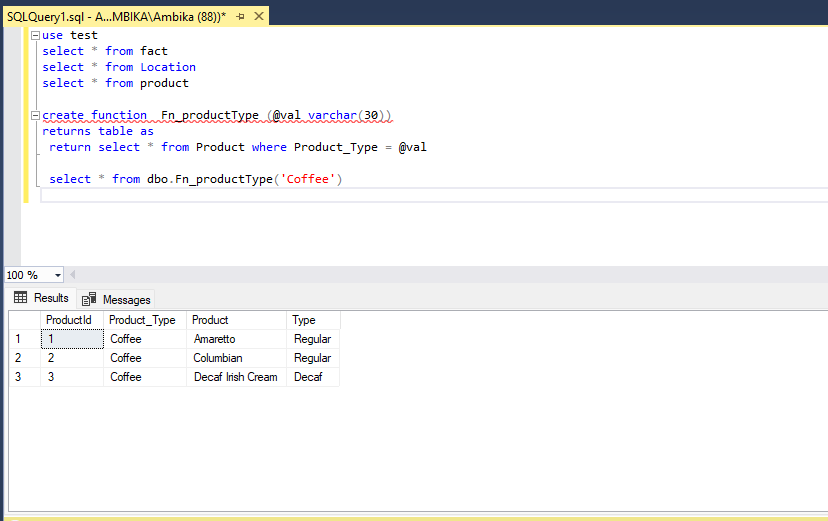
**attribute area code.**

****

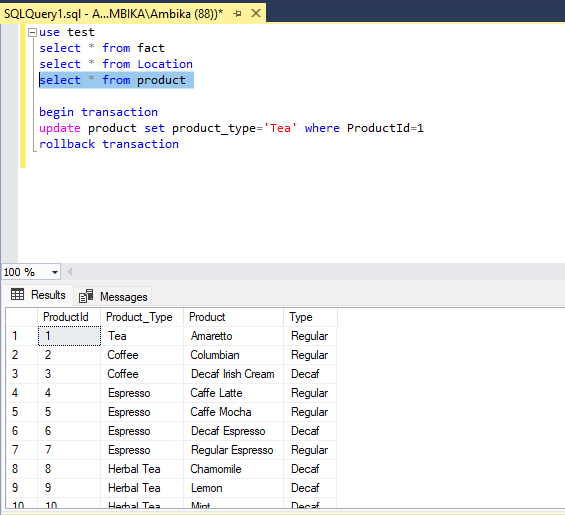
****

**25. Create a user-defined function for the product table to fetch a particular**

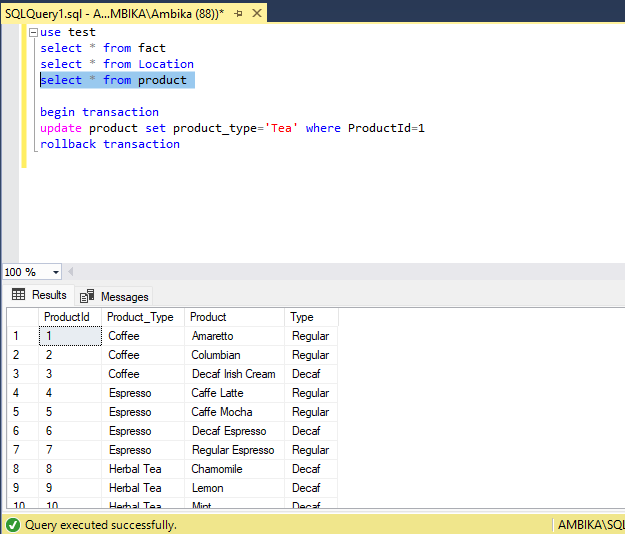
**product type based upon the user’s preference.**

****

**26. Change the product type from coffee to tea where product IDis 1 and undo it.**

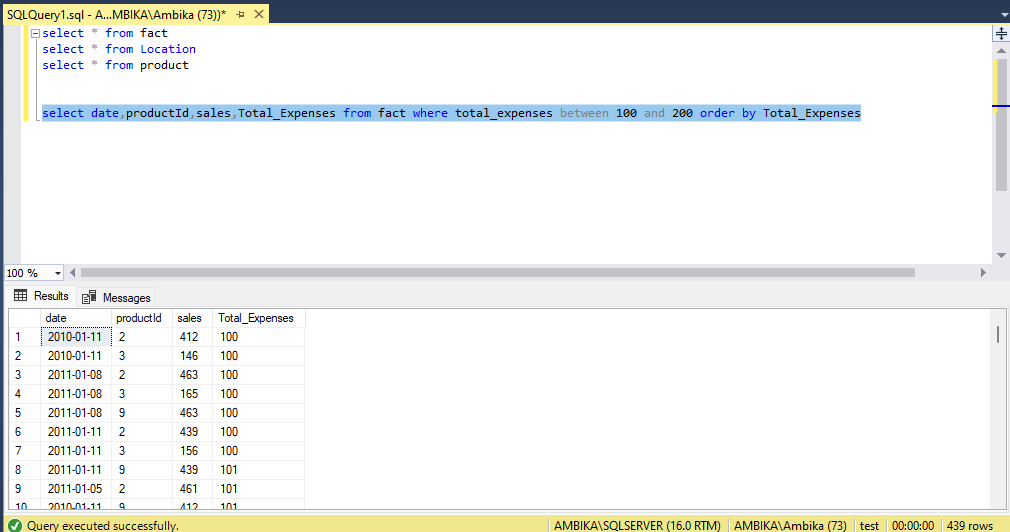
****

**After Rollback**

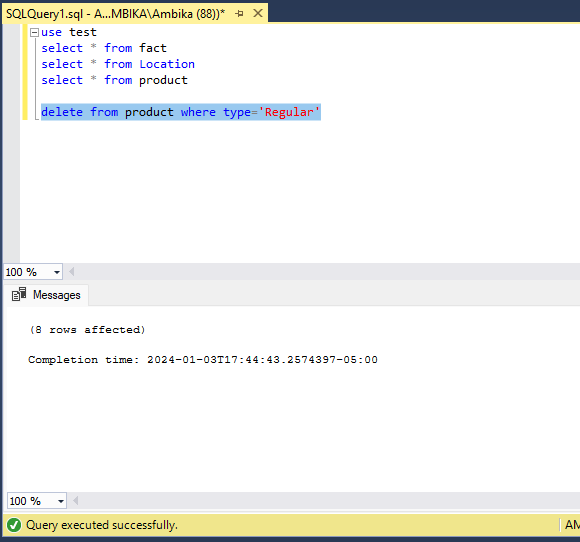
****

**27. Display the date, product ID and sales where total expenses are**

**between 100 to 200.**

****

**28. Delete the records in the Product Table for regular type.**

****

**29. Display the ASCII value of the fifth character from the column Product.**

