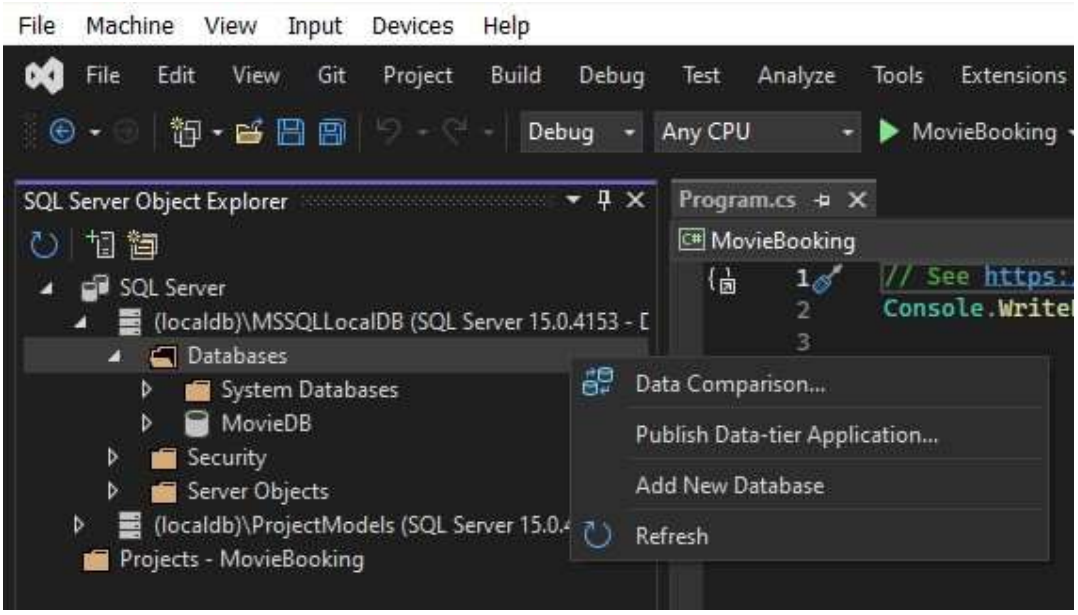
TASK

Open visual studio 2022 in the vm/system

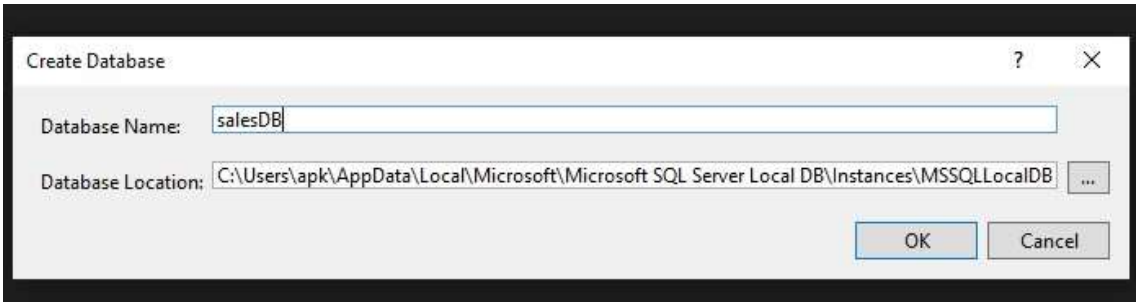
Give create a new project and enter the project name. Now using view gives sql server object explorer where the server lists there. Add the server to connect with the localdb. And connect it

Now open localdb we can see the databases click it and add a new database

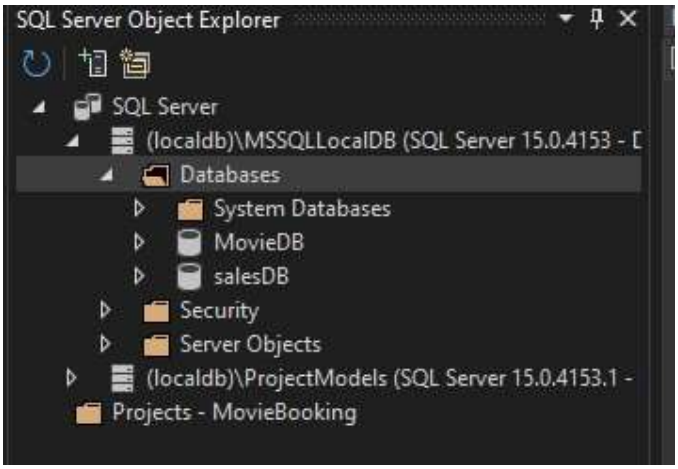


Give the database name

Now click OK

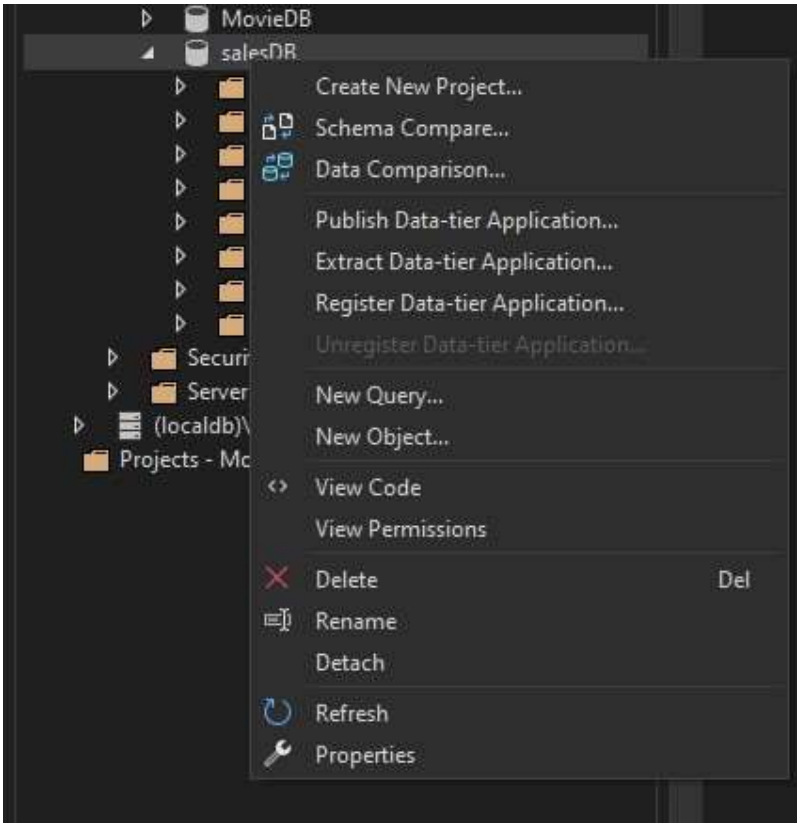


We can see the database created in the sql server object explorer side which gives a clear view of the database which will be used in the project

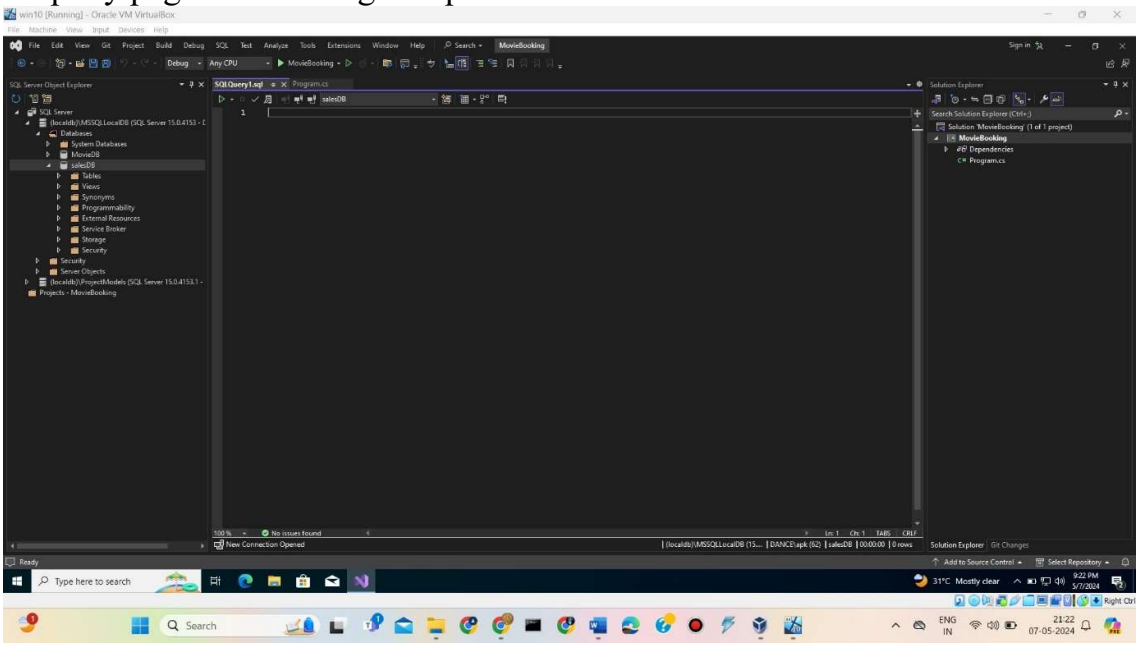


Now right-click the database we can see a new query. Click on it.

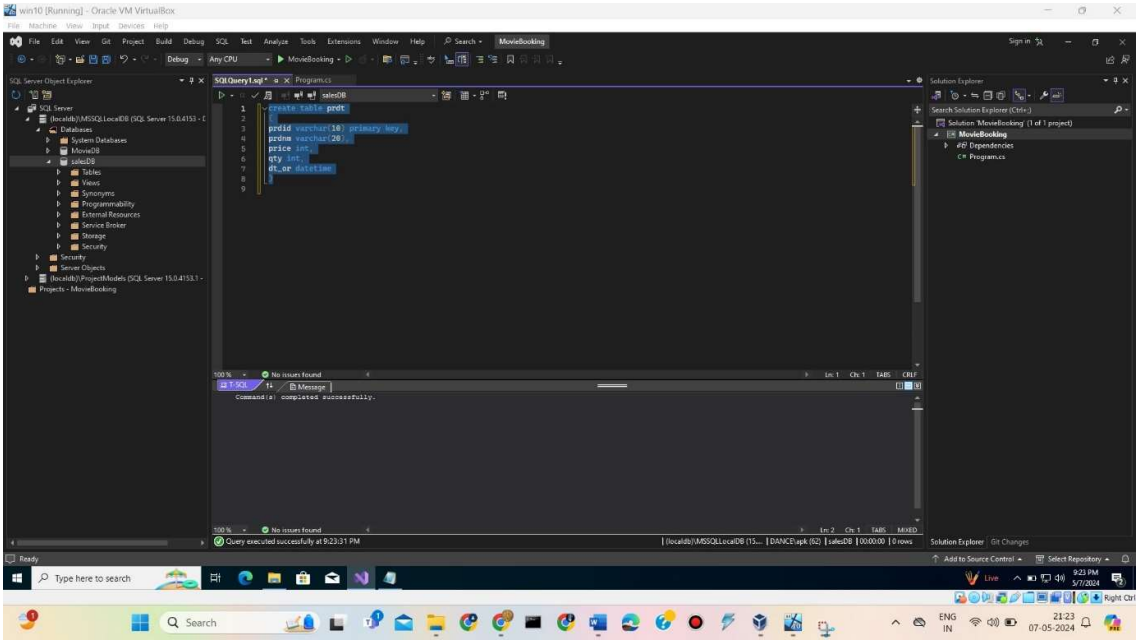
A new query page will be opened where the sql server queries are written.



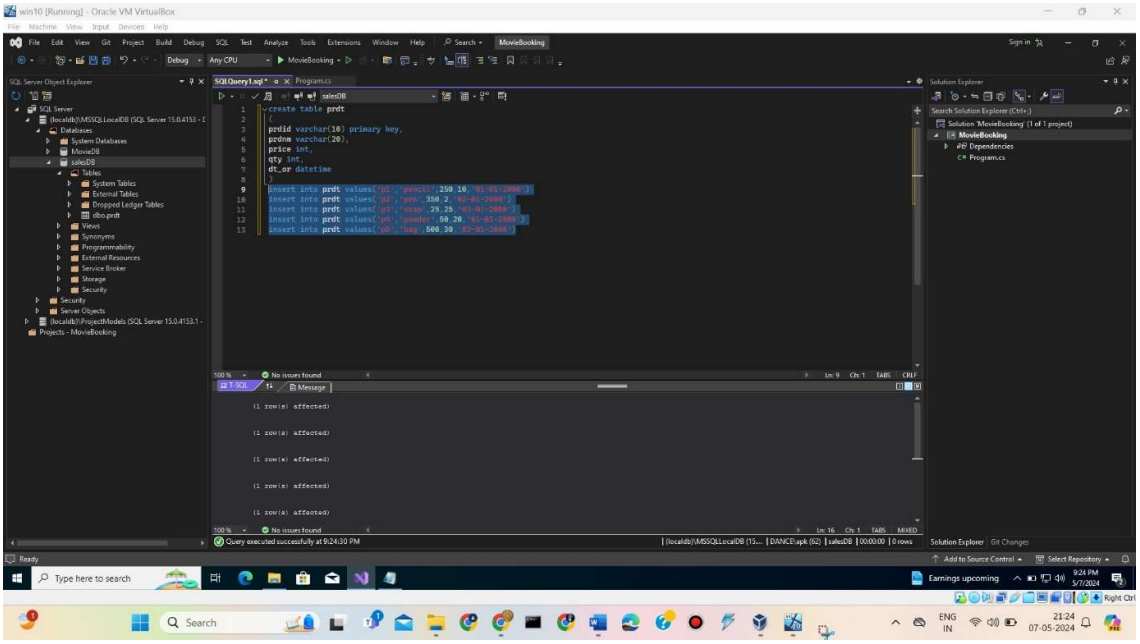
In query page start writing the queries.



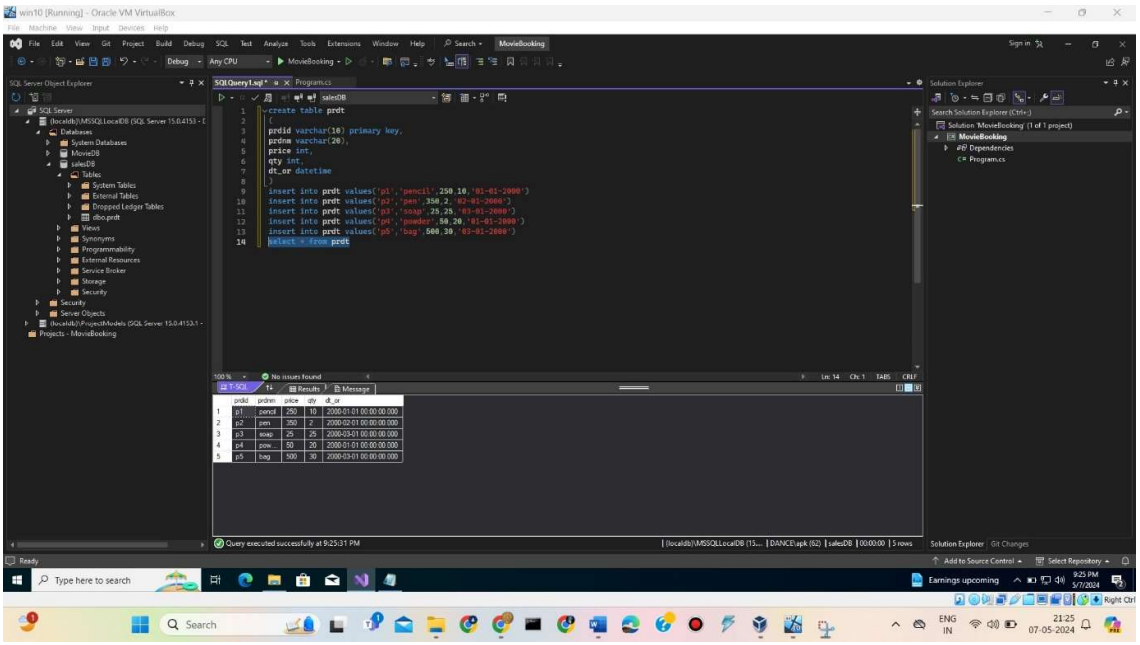
Create table for the database. First table product table



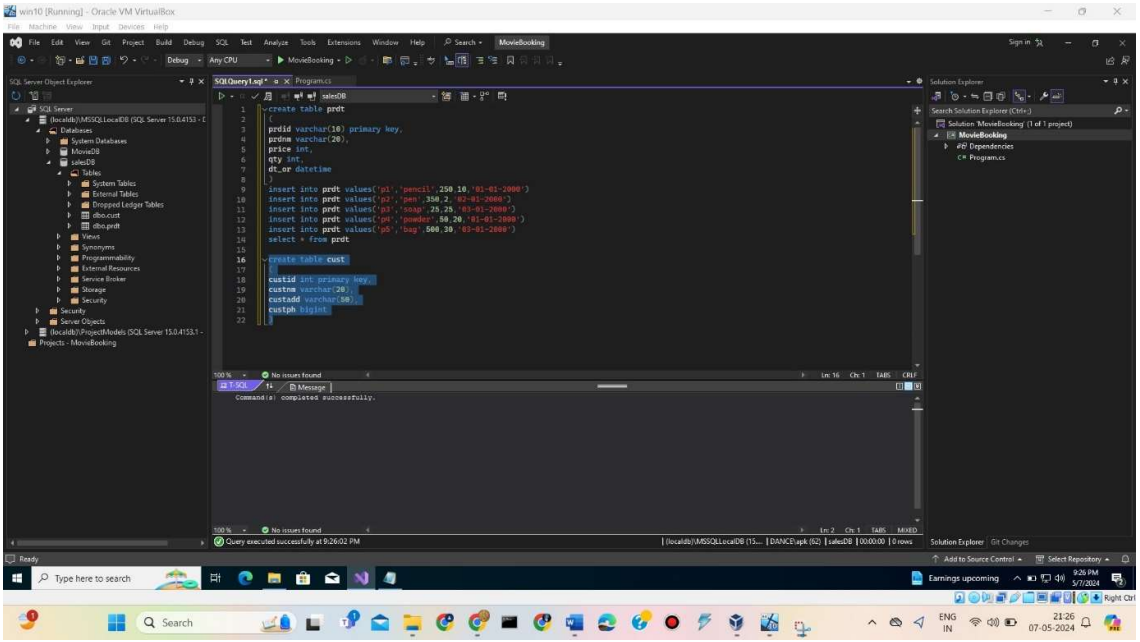
Insert values into the table



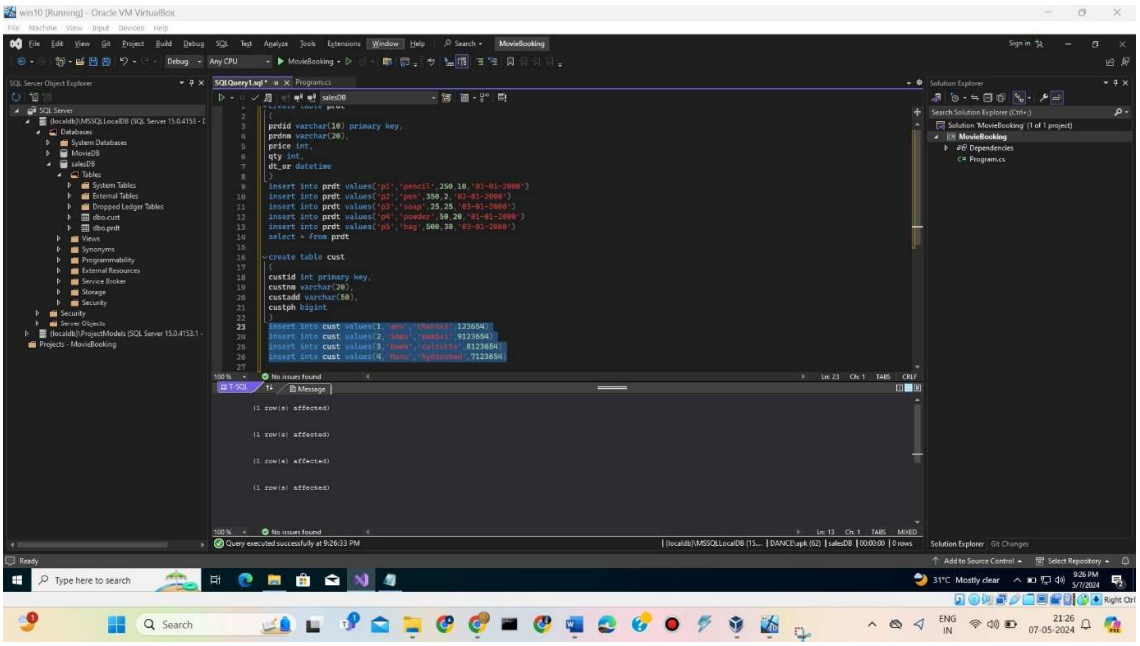
Using select we can see the table with values



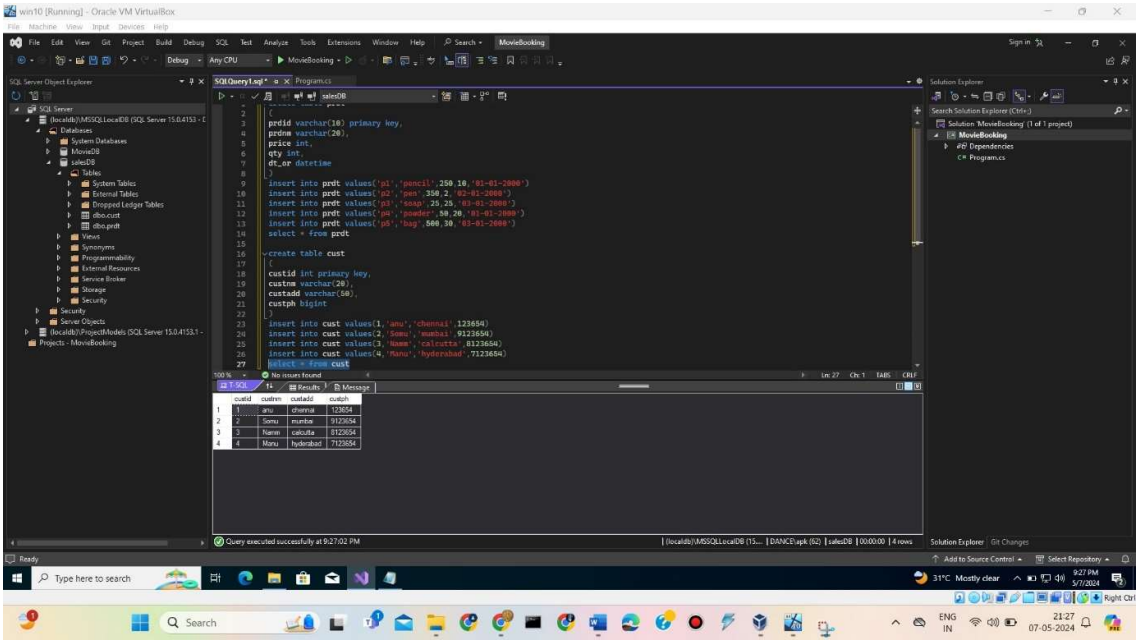
Create table customer table



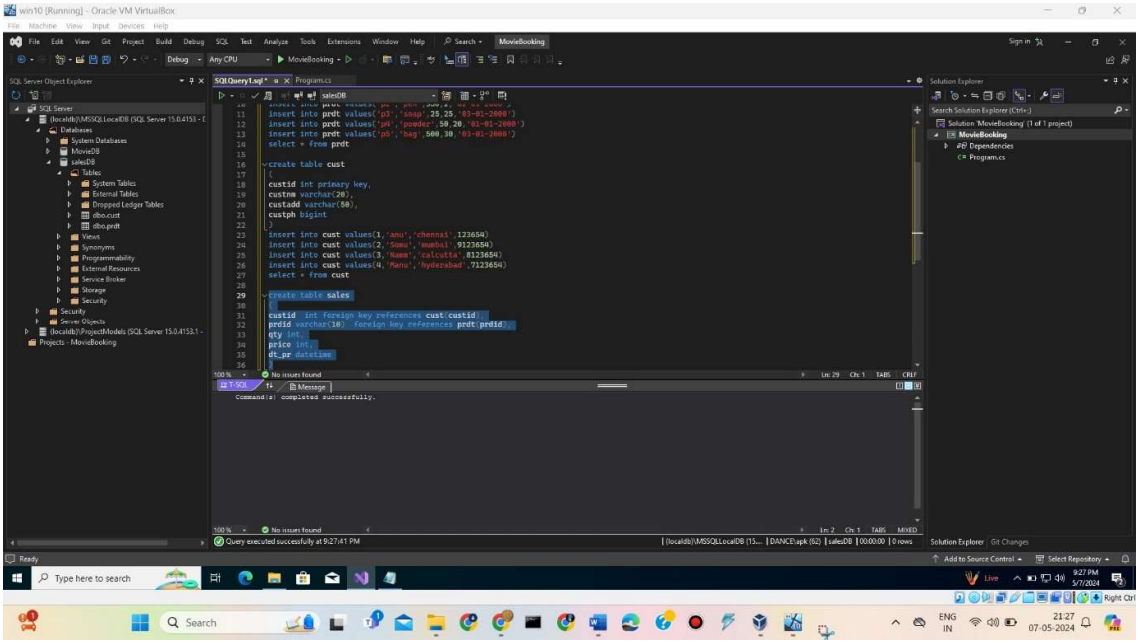
Insert values into it



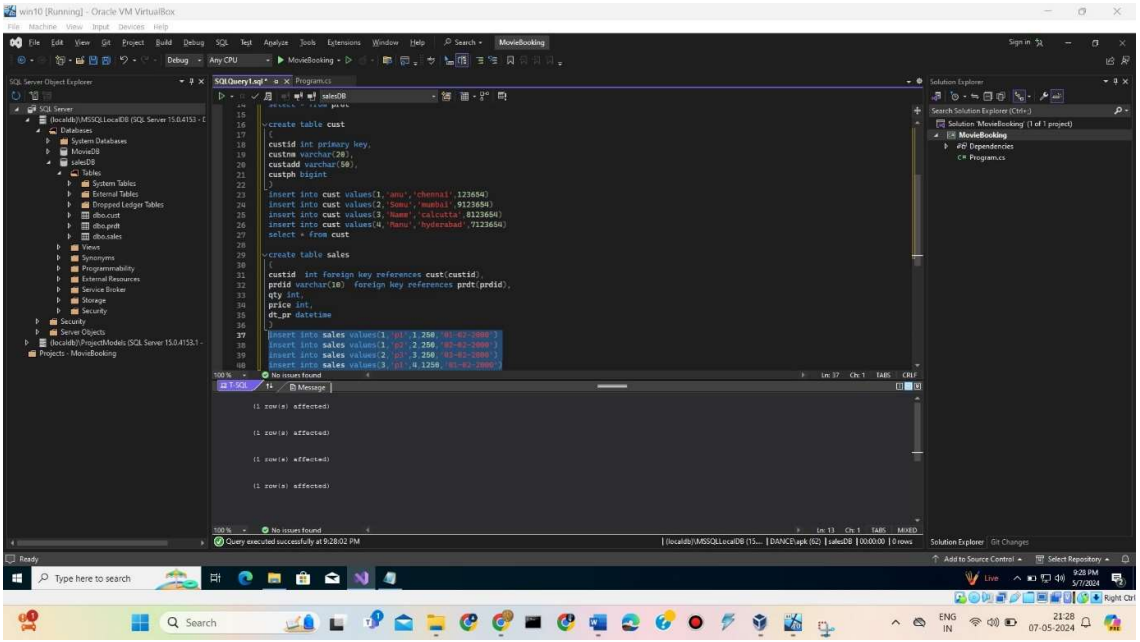
Using select we can see it



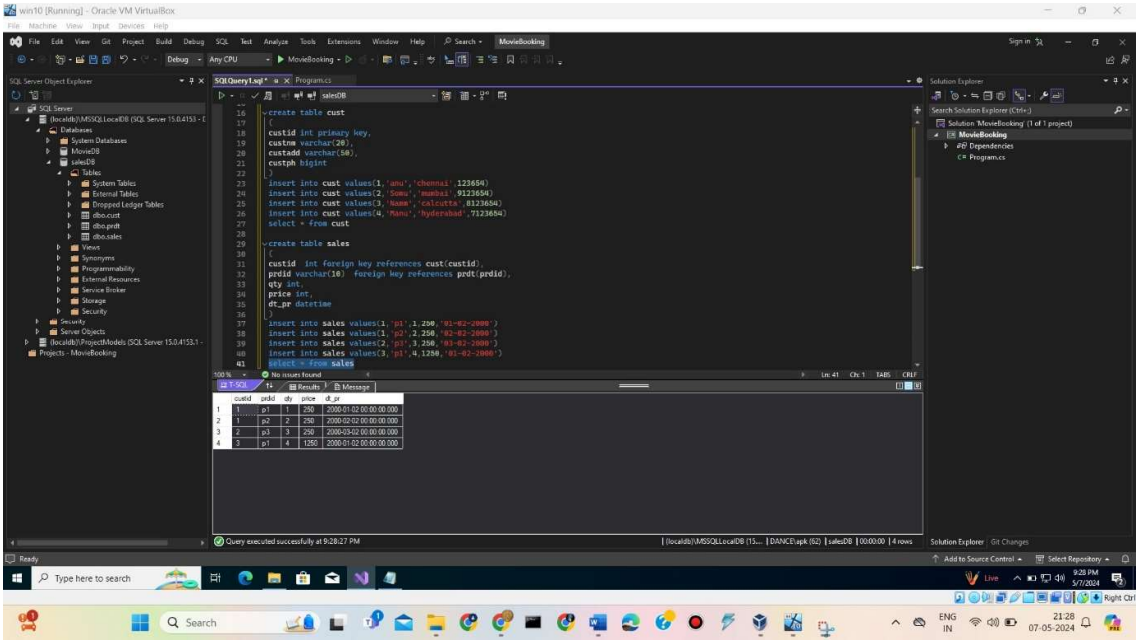
Create sales table



Insert values to it



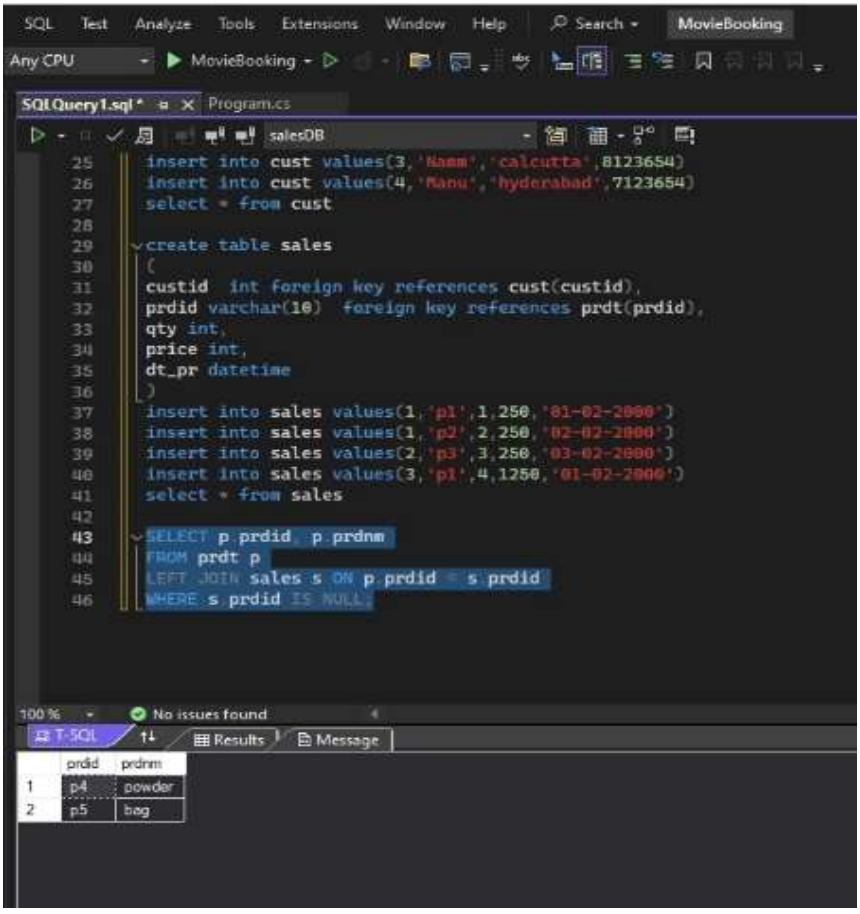
Using select we can see it



Write a query to find which product has not at all been sold

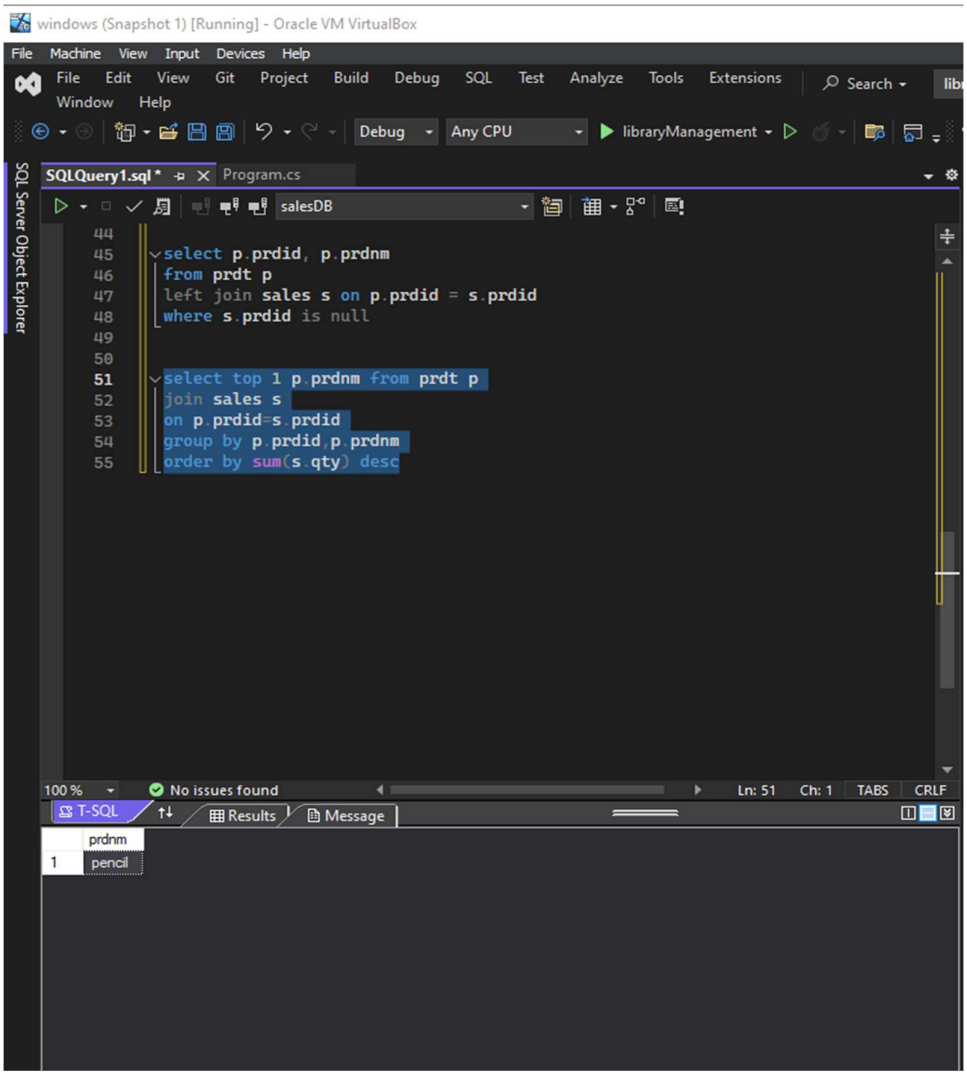
Using join we can implement it, where the product details need to be displayed like product id and name from product table and compare it with the sales table which is not sold,this attained by left join of product table and sales table

Select *column-names* from *table1* left join *table2* on *common-column of both tables*



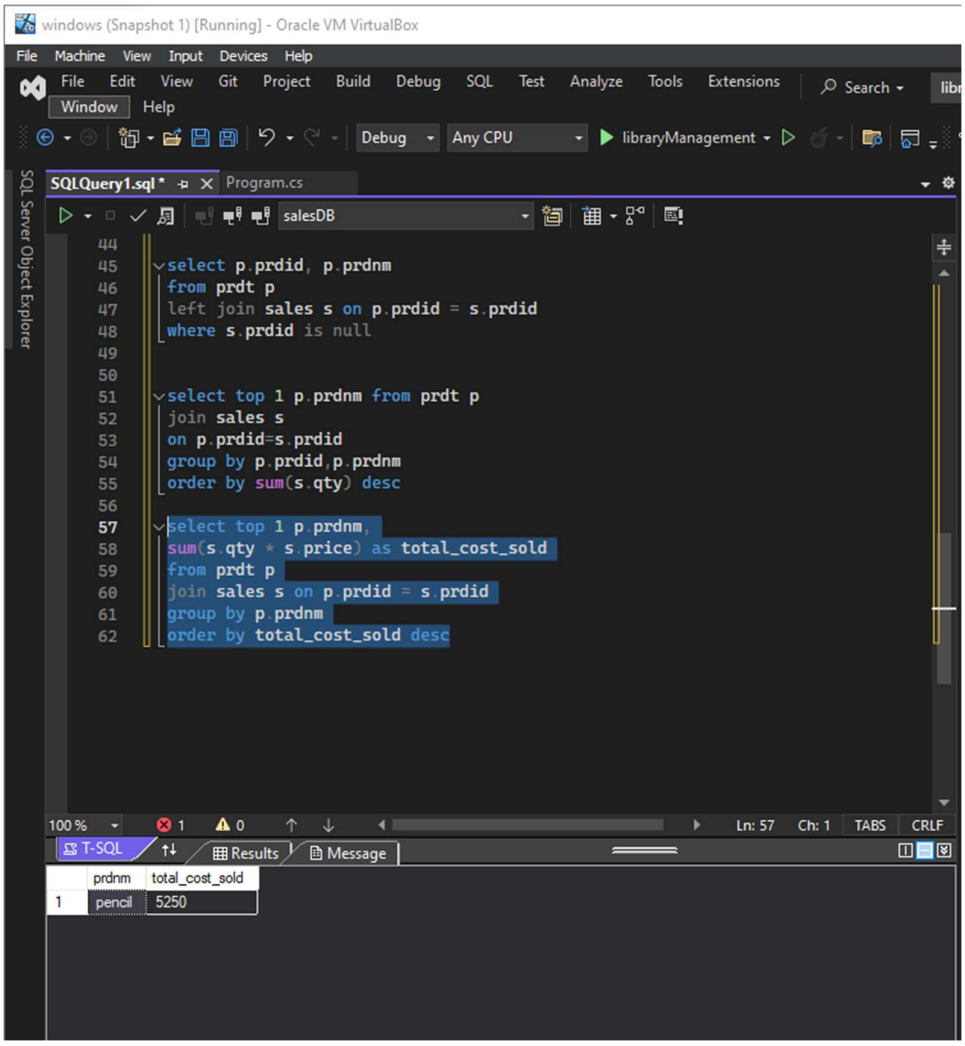
Write a query to find the most sold product and display it's name

this is also obtained by joining product and sales tables and use groupby and order by funtions



Write a query to find the most sold product and display it's name and total cost sold.

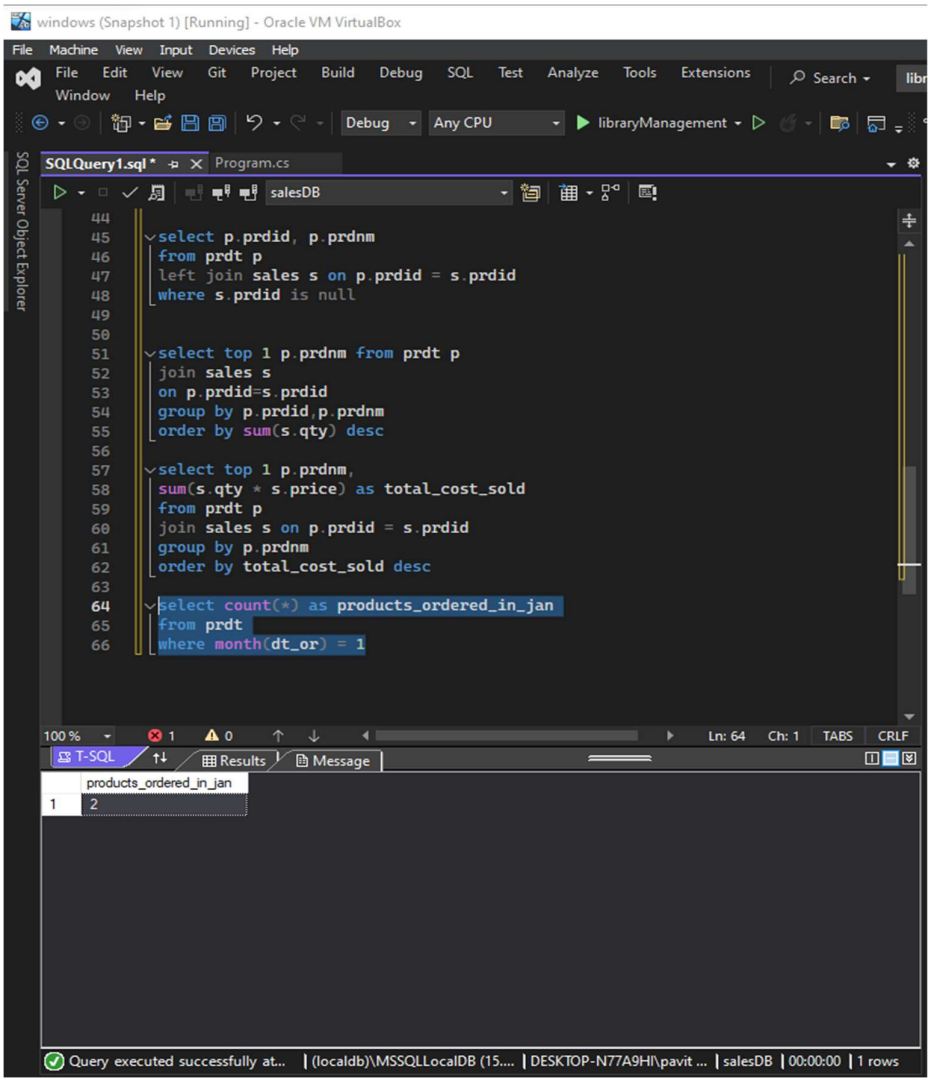
Here the total cost is calculated and that has been ordered in descending where the total cost is calculated by two tables which is product and sales table by using join this has been achieved



How many products has been ordered in the month of Jan

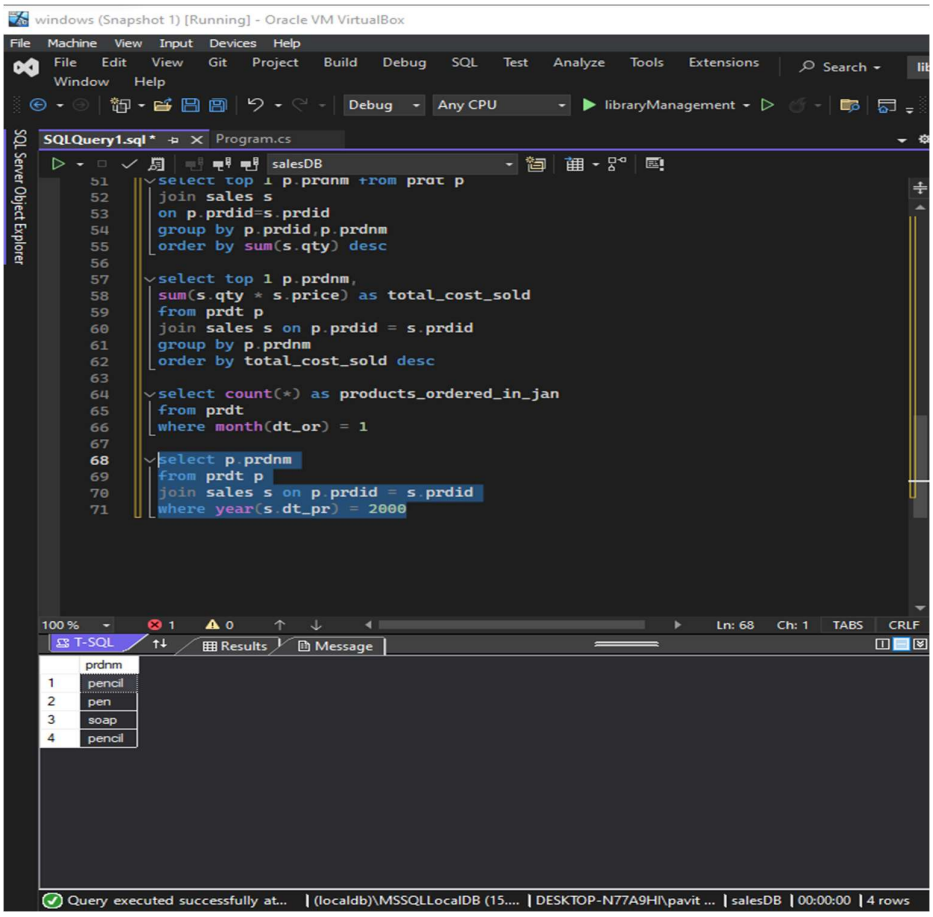
Count aggregation function is used to count the no.of products ordered from product table

Using condition in where clause we can get the count in jan month **where month(*date_orderd)***



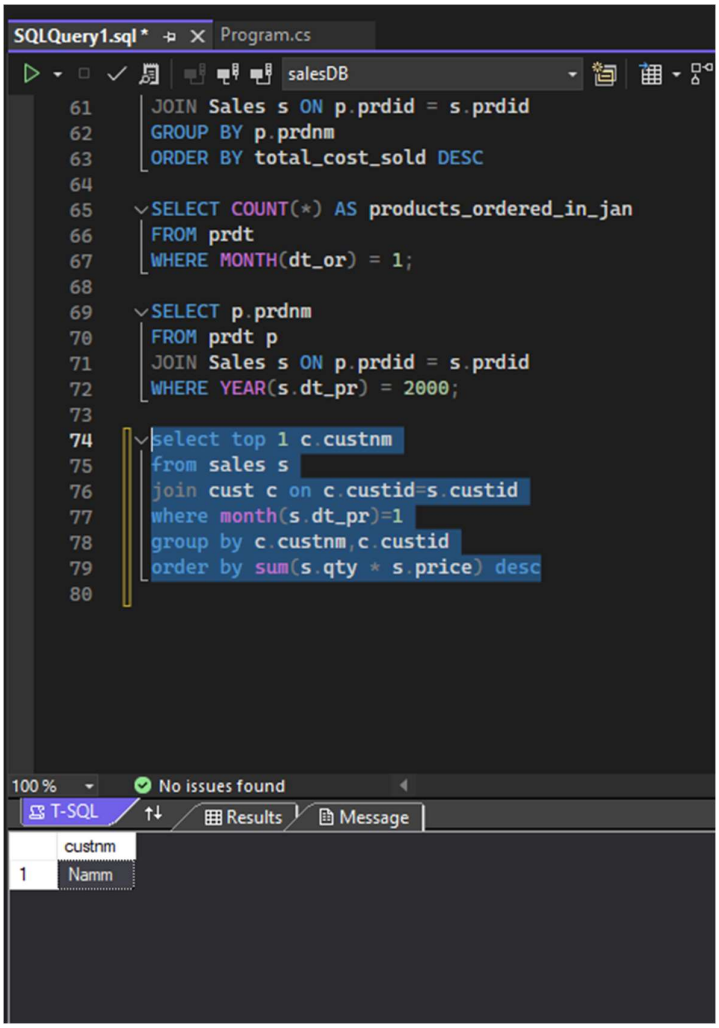
Display the names of the products that has been sold in the year 2000

By joining product and sales take we can attain it. Where there should be a condition the year of the date of purchase need to be 2000
where year(*date_pur)*=2000



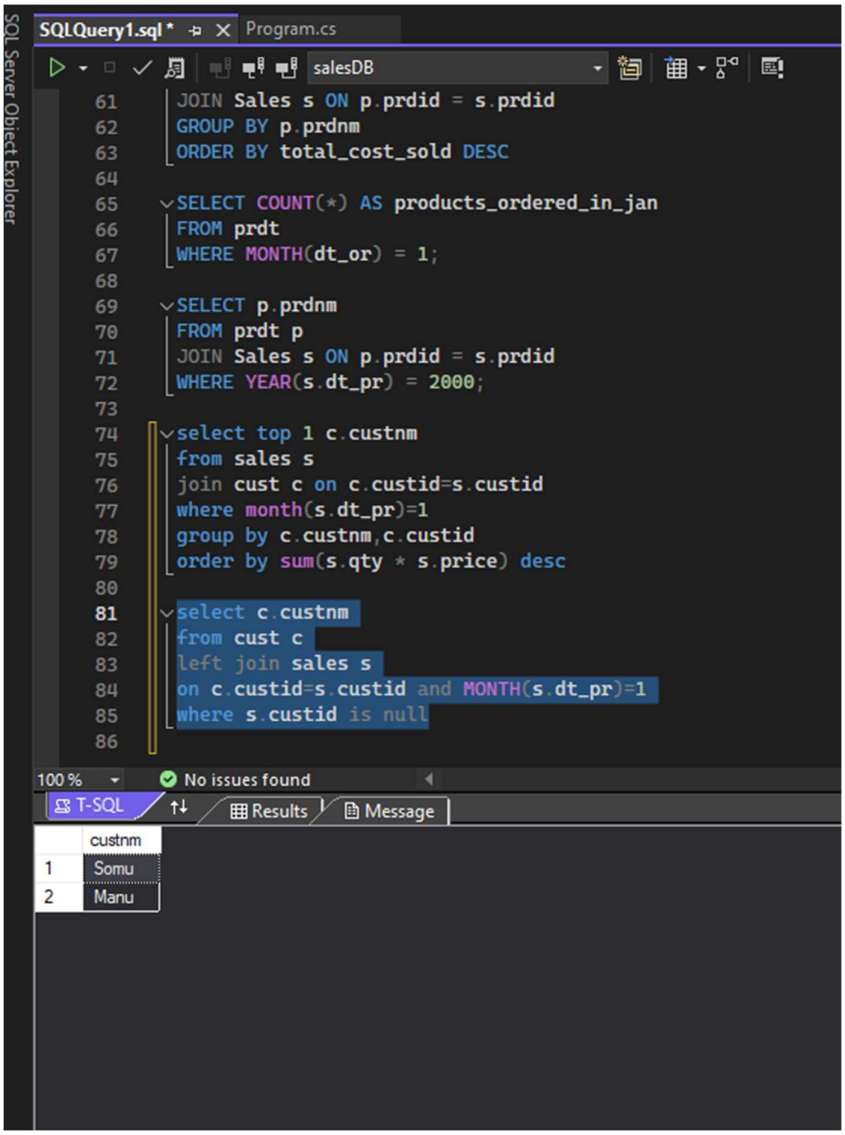
Display the name the customer who has made highest purchase in Jan month

Joining sales and customer table we can obtain it. Using where condition for month and groupby and orderby in descending is used.



Display the name of the customers who haven't purchased any product in Jan month

Using left join we can establish it on customer and sales table in the condition where it should be jan month and the custid shouls not be null



Display the name of the customers who have purchased above Rs.4000

By joining customer and sales table we can achieve it where the customer need to be purchased more than 4000 rupess which can be calculated by **qty*price** in sales table