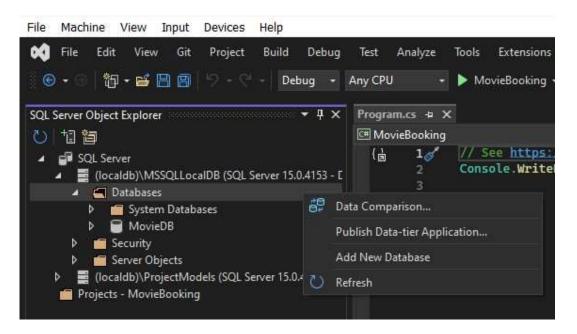
TASK

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

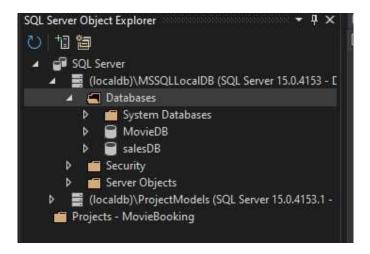


Give the database name

Now click OK

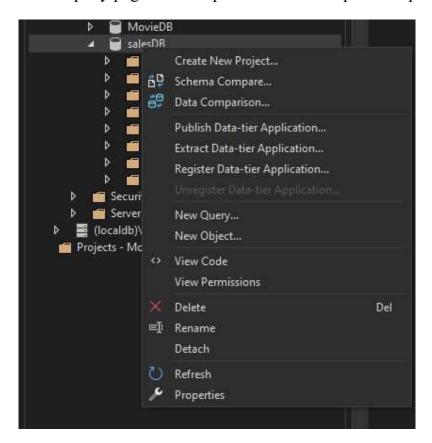
| Create Database | | ? | × |
|----------------------|--|--------|-----|
| Database Name: 56 | alesDB | | |
| Database Location: C | ::\Users\apk\AppData\Local\Microsoft\Microsoft SQL Server Local DB\Instances\MSSQLLo | ocalDB | *** |
| | ОК | Cance | ı |

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

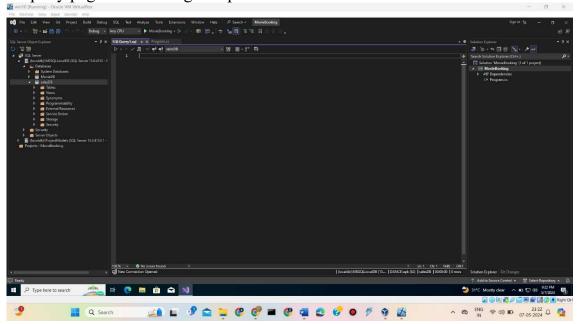


Now right-click the database we can see a new query. Click on it.

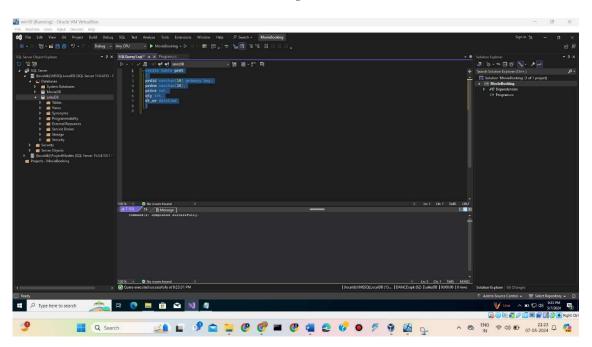
A new query page will be opened where the sql server queries are written.



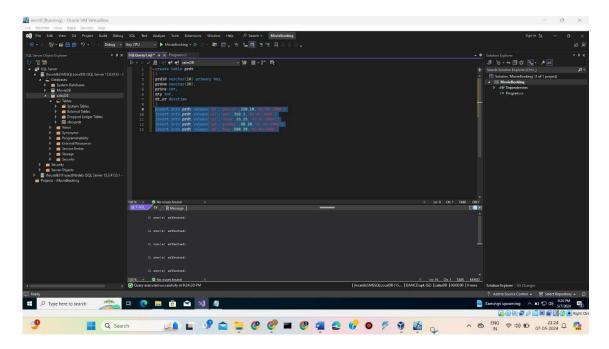
In query page start writing the queries.



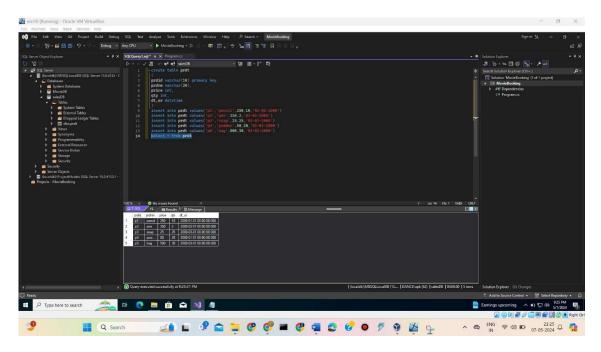
Create table for the database. First table product table



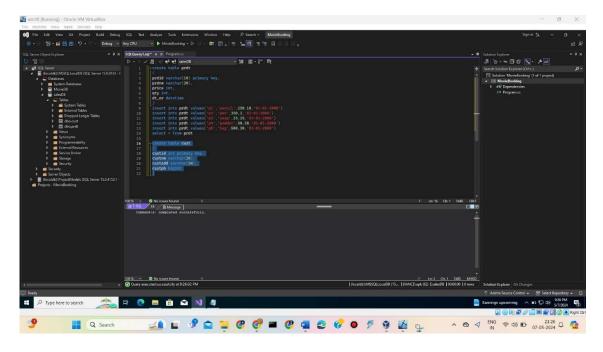
Insert values into the table



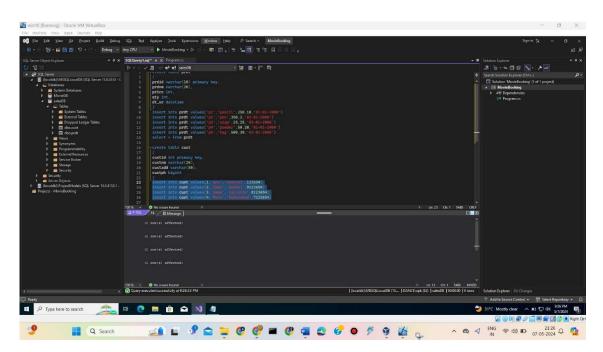
Using select we can see the table with values



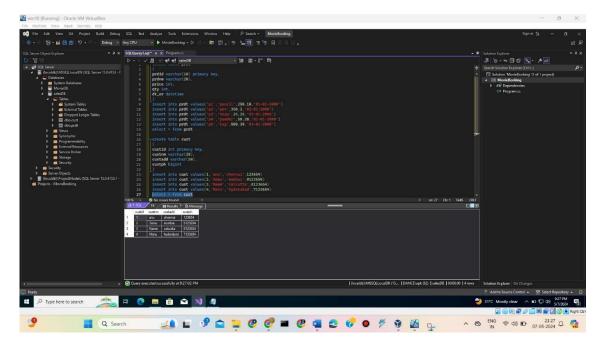
Create table customer table



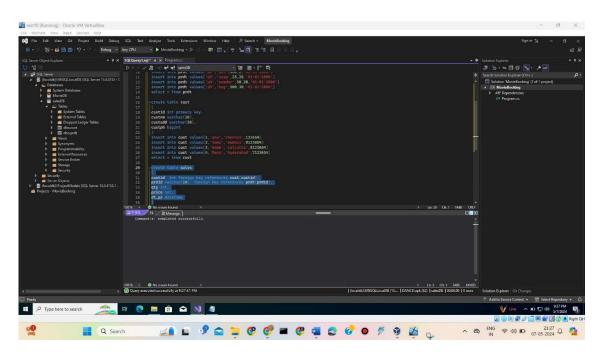
Insert values into it



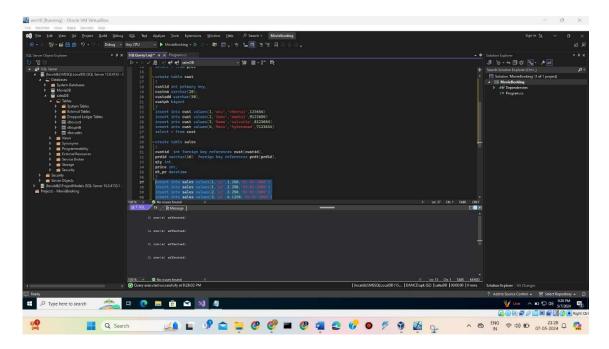
Using select we can see it



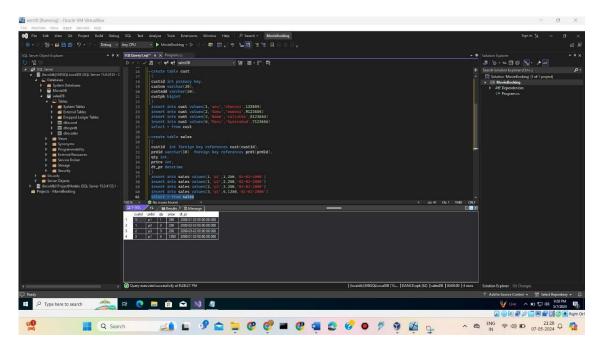
Create sales table



Insert values to it



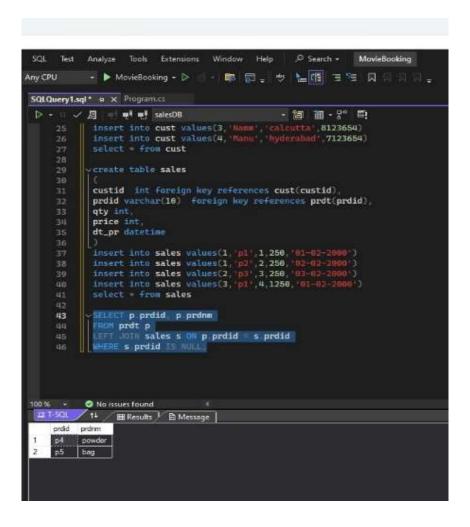
Using select we can see it



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

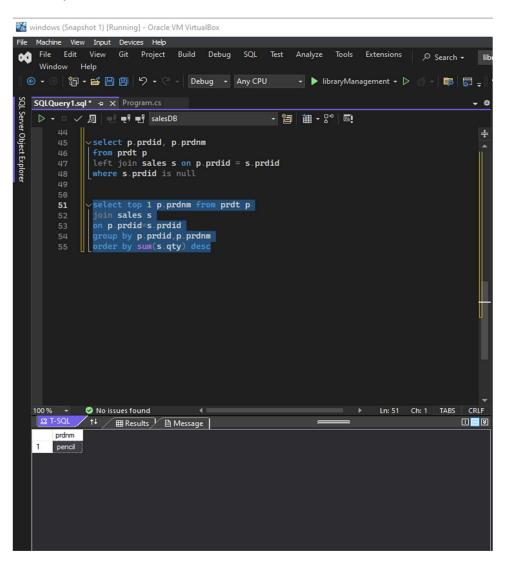
Using join we can implement it, where the product details need to be displayed like product id and name from product table and compare it with the sales table which is not sold, this attained by left join of product table and sales table

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



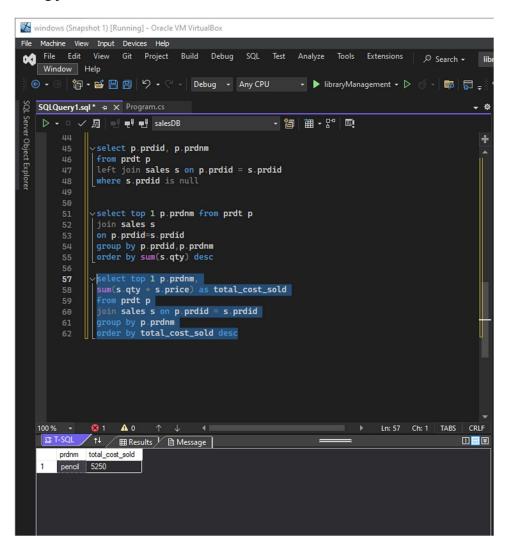
Write a query to find the most sold product and display it's name

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.

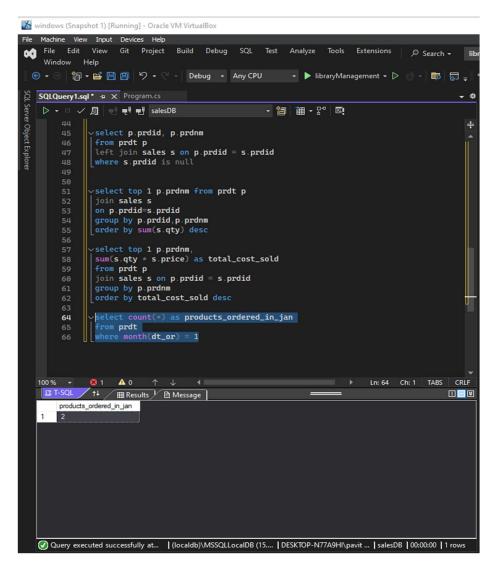
Here the total cost is calculated and that has been ordered in descending where the total cost is calculated by two tables which is product and sales table by using join this has been achieved



How many products has been ordered in the month of Jan

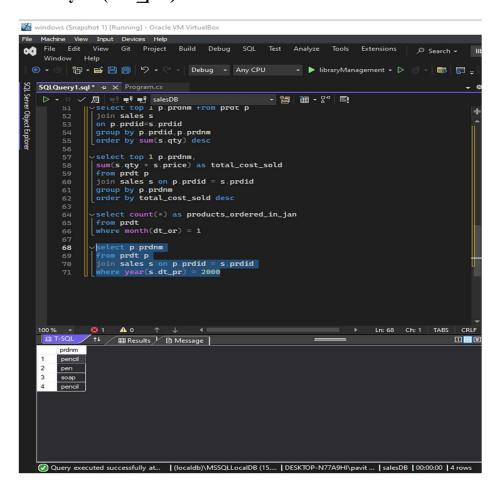
Count aggregation function is used to count the no.of products ordered from product table

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



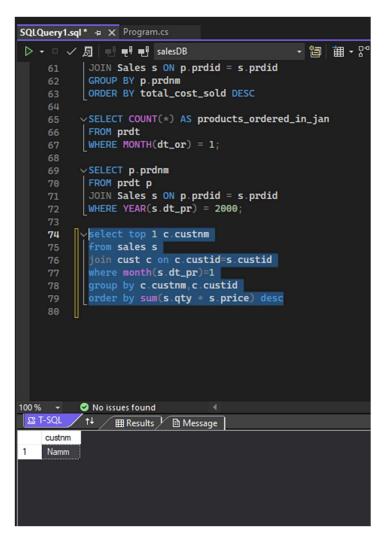
Display the names of the products that has been sold in the year 2000

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

```
SQLQuery1.sql * -> X Program.cs
D - □ ✓ 周 및 및 salesDB
                                               - 智 曲 - 50 画
           JOIN Sales s ON p.prdid = s.prdid
           GROUP BY p.prdnm
           ORDER BY total_cost_sold DESC
          VSELECT COUNT(*) AS products_ordered_in_jan
           FROM prdt
           WHERE MONTH(dt_or) = 1;
          ∨SELECT p.prdnm
           FROM prdt p
           JOIN Sales s ON p.prdid = s.prdid
           WHERE YEAR(s.dt_pr) = 2000;
         | ∨select top 1 c.custnm
           from sales s
           join cust c on c.custid=s.custid
           where month(s.dt_pr)=1
           group by c.custnm.c.custid
           order by sum(s.qty * s.price) desc
          vselect c.custnm
    81
           from cust c
           left join sales s
           on c.custid=s.custid and MONTH(s.dt_pr)=1
            where s.custid is null
          No issues found
100 % -
                ■ Results / 🗈 Message
    custnm
     Somu
    Manu
```

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

```
SQLQuery1.sql * + X Program.cs
                                             - 智 田 - 5
       ✓ 周 📲 🖷 🖷 salesDB
          WHERE MUNIH(GT_Or) = 1;
         ∨SELECT p.prdnm
          FROM prdt p
           JOIN Sales s ON p.prdid = s.prdid
          WHERE YEAR(s.dt_pr) = 2000;
        | ∨select top 1 c.custnm
          from sales s
          join cust c on c.custid=s.custid
          where month(s.dt_pr)=1
          group by c.custnm,c.custid
          order by sum(s.qty * s.price) desc
         ∨select c.custnm
          from cust c
          left join sales s
          on c.custid=s.custid and MONTH(s.dt_pr)=1
          where s.custid is null

√select distinct c.custnm

    87
           from cust c
           join sales s
           on c custid=s custid
           group by c.custnm,c.custid
           having sum(s.qty * s.price)>4000
          No issues found
custnm
    Namm
```