------ suneet paul singh -------

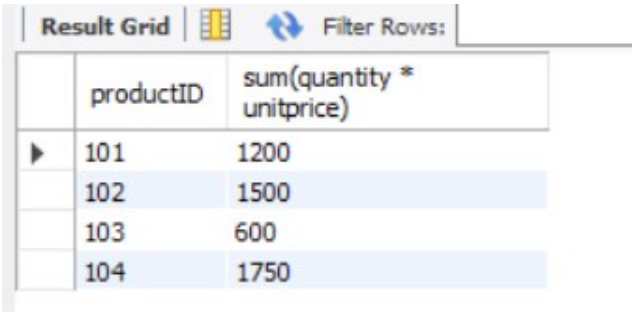
select * from sales;

Table: `Sales`

SaleID	ProductID	CustomerID	SaleDate	Quantity	UnitPrice	Region
1	101	1001	2024-01-05	5	200	North
2	102	1002	2024-01-10	10	150	East
3	103	1003	2024-02-15	2	300	North
4	104	1001	2024-02-20	7	250	West
5	101	1004	2024-03-05	1	200	East

#Write a query to calculate the total sales (Quantity * UnitPrice) for each product.

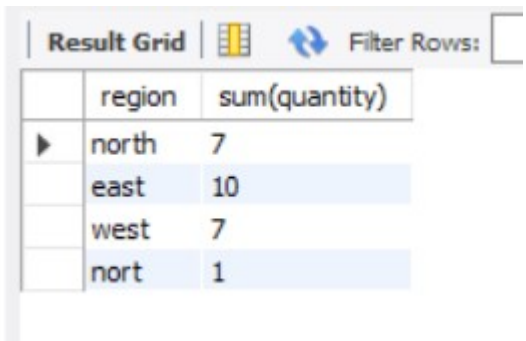
select productID,sum(quantity * unitprice) from sales group by productID;



productID	sum(quantity * unitprice)
101	1200
102	1500
103	600
104	1750

#Write a query to find the total number of products sold in each region.

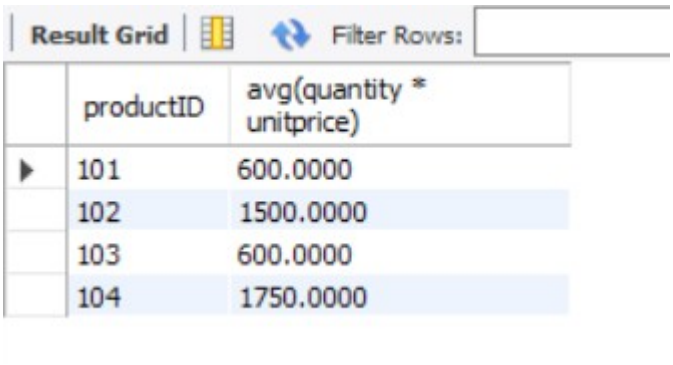
select region , sum(quantity) from sales group by region;



region	sum(quantity)
north	7
east	10
west	7
nort	1

#Write a query to get the average sales amount per product.

select productID , avg(quantity * unitprice) from sales group by productID;

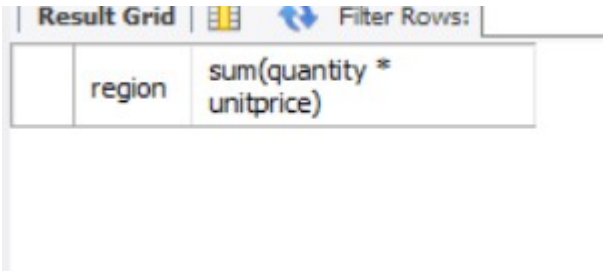


Result Grid | Filter Rows:

productID	avg(quantity * unitprice)
101	600.0000
102	1500.0000
103	600.0000
104	1750.0000

#Find the regions where total sales are more than 3000.

select region , sum(quantity * unitprice) from sales group by region having sum(quantity * unitprice)>3000;

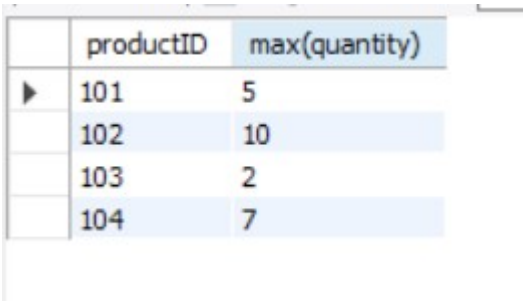


Result Grid | Filter Rows:

region	sum(quantity * unitprice)

#Write a query to get the maximum quantity sold for each product.

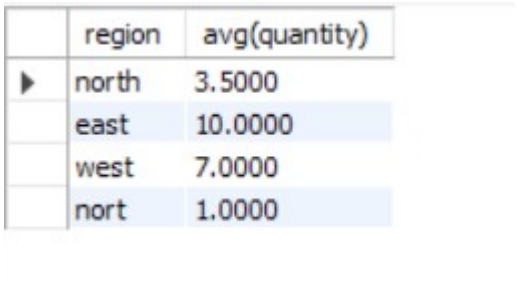
select productID , max(quantity) from sales group by productID;



productID	max(quantity)
101	5
102	10
103	2
104	7

#Write a query to calculate the average quantity of products sold per region.

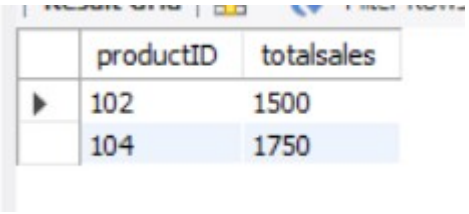
select region , avg(quantity) from sales group by region ;



region	avg(quantity)
north	3.5000
east	10.0000
west	7.0000
nort	1.0000

#Find the product IDs that have generated a total sales amount of more than 1000.

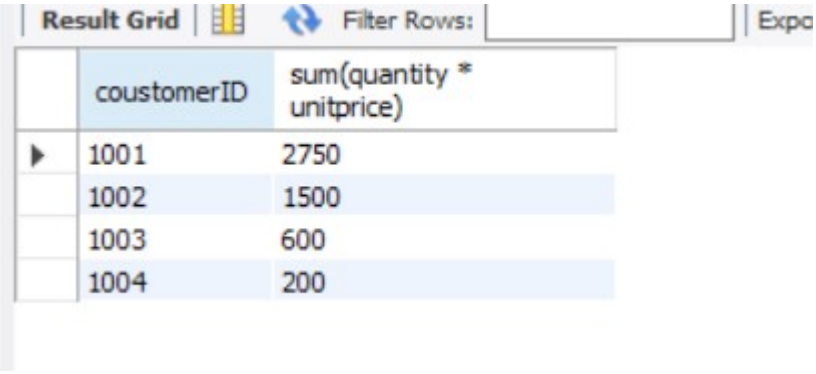
select productID , (quantity * unitprice) as totalsales from sales where (quantity * unitprice) >1000;



productID	totalsales
102	1500
104	1750

#Write a query to get the total number of sales (rows) made for each customer.

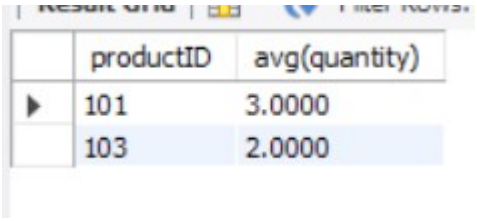
select coustomerID , sum(quantity * unitprice) from sales group by coustomerID ;



coustomerID	sum(quantity * unitprice)
1001	2750
1002	1500
1003	600
1004	200

#Find the products for which the average quantity sold is less than 5.

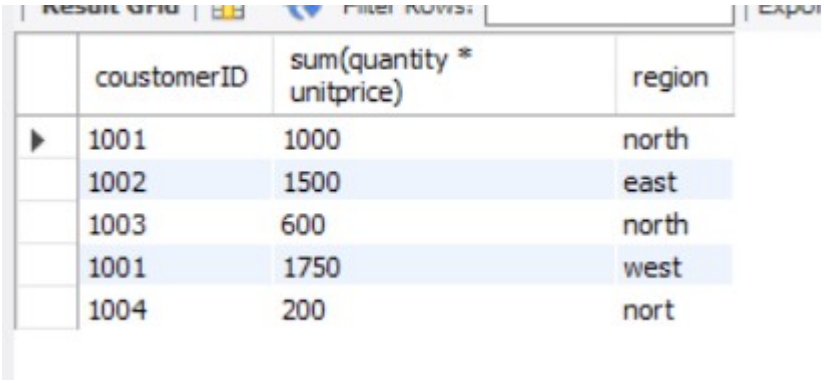
select productID , avg(quantity) from sales group by productID having avg(quantity)<5;



productID	avg(quantity)
101	3.0000
103	2.0000

#Write a query to find the sum of total sales for each customer in each region.

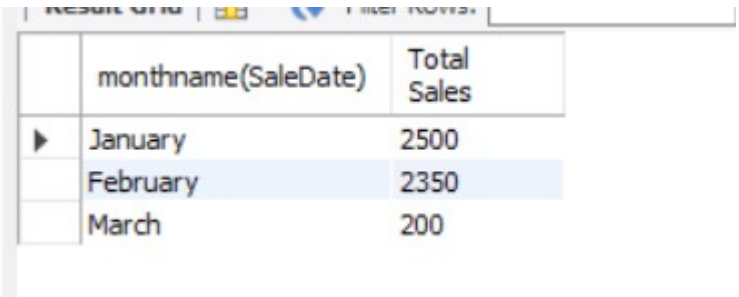
select coustomerID , sum(quantity * unitprice) , region from sales group by coustomerID ,region ;



coustomerID	sum(quantity * unitprice)	region
1001	1000	north
1002	1500	east
1003	600	north
1001	1750	west
1004	200	nort

#Write a query to calculate the total sales for each month.

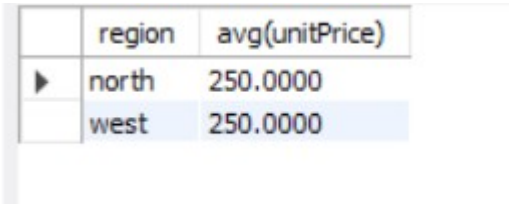
Select monthname(SaleDate), sum(Quantity*UnitPrice) AS "Total Sales" from sales group by monthname(SaleDate);



monthname(SaleDate)	Total Sales
January	2500
February	2350
March	200

#Find the regions where the average unit price is more than 200.

Select region ,avg(unitPrice) from sales group by region having avg(unitPrice)>200;



region	avg(unitPrice)
north	250.0000
west	250.0000

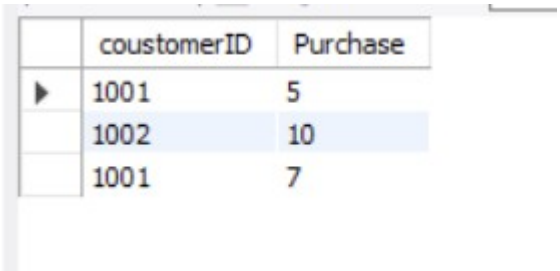
#Write a query to get the minimum and maximum quantity sold per region.

select region, Max(quantity) AS "Max. Quantity Sold",Min(quantity) AS "Min. Quantity Sold" from sales group by region;

region	Max. Quantity Sold	Min. Quantity Sold
north	5	2
east	10	10
west	7	7
nort	1	1

#Find the customers who have made more than 2 purchases.

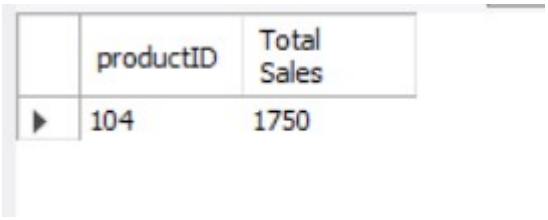
Select coustomerID, quantity as Purchase from sales where quantity > 2;



coustomerID	Purchase
1001	5
1002	10
1001	7

#Write a query to find the total sales for each product and filter only those products where the total sales exceed 1500.

Select productID, sum(quantity*unitPrice) As "Total Sales" from sales group by productID having sum(quantity*unitPrice)>1500;



	productID	Total Sales
▶	104	1750