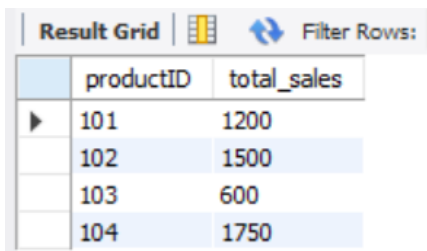


MYSQL ASSIGNMENT 4

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

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

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

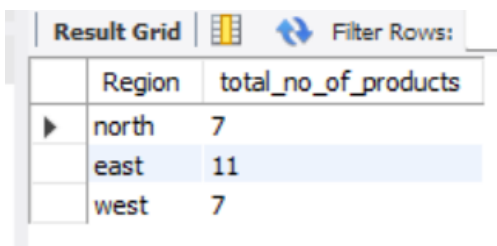


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

productID	total_sales
101	1200
102	1500
103	600
104	1750

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

select Region,sum(Quantity) as total_no_of_products from sales group by region;

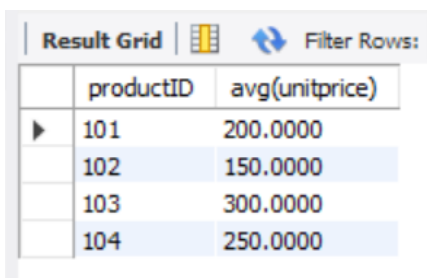


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

Region	total_no_of_products
north	7
east	11
west	7

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

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

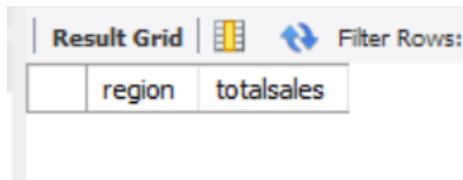


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

productID	avg(unitprice)
101	200.0000
102	150.0000
103	300.0000
104	250.0000

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

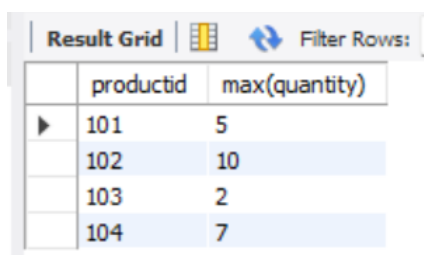
select region, sum(quantity*unitprice) as totalsales from sales group by region having sum(quantity*unitprice)>3000;



	region	totalsales
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5. Write a query to get the maximum quantity sold for each product.

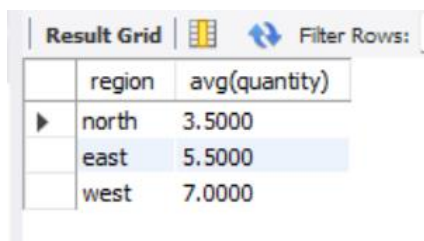
select productid, max(quantity) from sales group by productid;



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

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

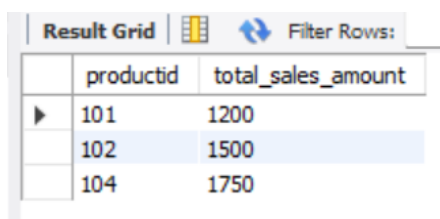
select region, avg(quantity) from sales group by region;



	region	avg(quantity)
▶	north	3.5000
	east	5.5000
	west	7.0000

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

select productid, sum(quantity*unitprice) as total_sales_amount from sales group by productid having sum(quantity*unitprice)>1000;



	productid	total_sales_amount
▶	101	1200
	102	1500
	104	1750

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

select customerid, count(quantity*unitprice) as total_no_of_sales from sales group by customerid;

Result Grid			Filter Rows:
	customerid	total_no_of_sales	
▶	1001	2	
	1002	1	
	1003	1	
	1004	1	

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

**select productid,avg(quantity) as average_quantity_sold from sales
group by productid having avg(quantity)<5;**

Result Grid			Filter Rows:
	productid	average_quantity_sold	
▶	101	3.0000	
	103	2.0000	

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

**select customerid,region,sum(quantity*unitprice) as total_sales from
sales group by customerid,region;**

Result Grid				Filter Rows:
	customerid	region	total_sales	
▶	1001	north	1000	
	1002	east	1500	
	1003	north	600	
	1001	west	1750	
	1004	east	200	

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

**select month(saledate) as salemonth,sum(quantity*unitprice) as
totalsales from sales group by salemonth;**

Result Grid			Filter Rows:
	salemonth	totalsales	
▶	1	2500	
	2	2350	
	3	200	

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

**select region, avg(unitprice) as average_unit_price from sales group by
region having avg(unitprice)>200;**

Result Grid			Filter Rows:
	region	average_unit_price	
▶	north	250.0000	
	west	250.0000	

13. 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;

Result Grid				Filter Rows:
	region	max_quantity_sold	min_quantity_sold	
▶	north	5	2	
	east	10	1	
	west	7	7	

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

select customerid,count(quantity) as purchases from sales group by customerid having count(quantity)>2;

Result Grid			Filter Rows:
	customerid	purchases	

15. 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(quanxity*unitprice)>1500;

Result Grid			Filter Rows:
	productid	total_sales	
▶	104	1750	