

MYSQL ASSIGNMENT 4

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

1. Write a query to calculate the total sales (Quantity * UnitPrice) for each product.
select productID , unitprice*quantity as total_sales from sales;

Result Grid	Filter Rows:
productID	total_sales
1001	1000
1002	1500
1003	600
1001	1750
1004	200

2. Write a query to find the total number of products sold in each region.
select region, sum(quantity) from sales group by region;

Result Grid	Filter Rows:
region	sum(quantity)
north	7
east	11
west	7

3. Write a query to get the average sales amount per product.
select productID, (sum(quantity*unitprice)/sum(quantity)) as average_sales from sales group by productID ;

Result Grid	Filter Rows:
productID	average_sales
1001	229.1667
1002	150.0000
1003	300.0000
1004	200.0000

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

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

Result Grid		Filter Rows:	
	region	total_sales	

5. Write a query to get the maximum quantity sold for each product.
select productID , sum(quantity) from sales group by productID;

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	productID	sum(quantity)					
▶	1001	12					
	1002	10					
	1003	2					
	1004	1					

6. Write a query to calculate the average quantity of products sold per region.
select region, avg(quantity) as "average quantity" from sales group by region;

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	region	average 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 from sales group by productID having total_sales > 1000;

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	productID	total_sales					
▶	1001	2750					
	1002	1500					

8. Write a query to get the total number of sales (rows) made for each customer.
select customerID, sum(quantity) as "total number of sales" from sales group by customerID;

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	customerID	total number of sales			
▶	101	6			
	102	10			
	103	2			
	104	7			

9. Find the products for which the average quantity sold is less than 5.
select productID, avg(quantity) as average_quantity from sales group by productID having average_quantity < 5;

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	productID	average_quantity			
▶	1003	2.0000			
	1004	1.0000			

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 order by customerID,region;

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
	customerID	region	total_sales			
▶	101	east	200			
	101	north	1000			
	102	east	1500			
	103	north	600			
	104	west	1750			

11. Write a query to calculate the total sales for each month.
select month(saledate) as month, sum(quantity*unitprice) as total_sales from sales group by month;

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	month	total_sales			
▶	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 average_unit_price >200;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	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 maximum_quantity, min(quantity) as minimum_quantity from sales group by region;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	region	maximum_quantity	minimum_quantity
▶	north	5	2
	east	10	1
	west	7	7

14. Find the customers who have made more than 2 purchases.
select customerID, sum(quantity) as purchase from sales group by customerID having purchase > 2;

Result Grid




Filter Rows:

Export:



Wrap Cell Content:



	customerID	purchase
▶	101	6
	102	10
	104	7

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 total_sales >1500;

Result Grid




Filter Rows:

Export:



Wrap Cell Content:



	productID	total_sales
▶	1001	2750