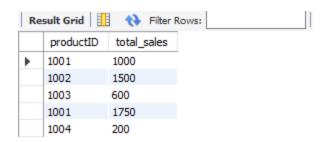
## **MYSQL ASSIGNMENT 4**

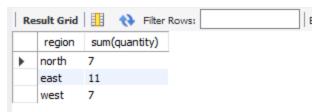
Table: Sales

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

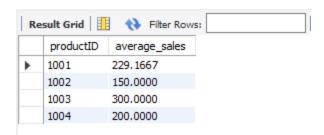
1. Write a query to calculate the total sales (Quantity \* UnitPrice) for each product. select productID , unitprice\*quantity as total\_sales from sales;



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

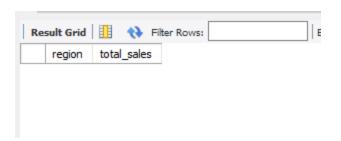


3. Write a query to get the average sales amount per product. select productID, (sum(quantity\*unitprice)/sum(quantity)) as average\_sales from sales group by productID;

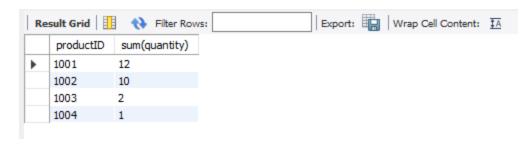


4. Find the regions where total sales are more than 3000.

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



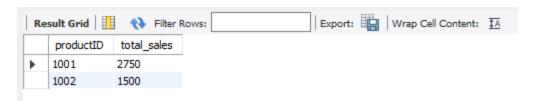
5. Write a query to get the maximum quantity sold for each product. select productID, sum(quantity) from sales group by productID;



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;



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;



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;

	sult Grid	Name of the Filter Rows:		Export:	Wrap Cell Con	ter
	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;



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;



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

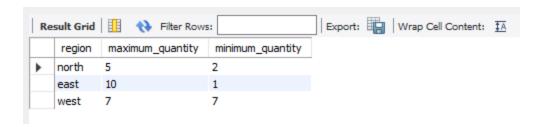
select month(saledate) as month, sum(quantity\*unitprice) as total\_sales from sales group by month;



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;



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;



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;



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;

