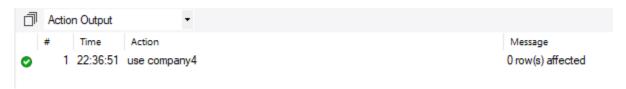
MYSQL ASSIGNMENT 4

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

create database company4;

use company4;



Create table sales(

SaleID int,

ProductID int,

CustomerID int,

Saledate varchar(51),

Quantity int,

UnitPrice int,

Region varchar(52));

select * from sales;

 $Insert\ into\ sales (SaleID, ProductID, CustomerID, Saledate, Quantity, Unit Price, Region) values$

(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");

select * from sales;



/*1.Write a query to calculate the total sales(Quantity*UnitPrice) for each product.*/
select ProductID, SUM(Quantity*UnitPrice) AS Totalsales from sales group by ProductID;

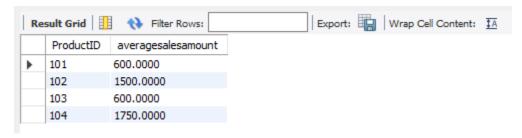


/*2.Write a query to find the total number of products sold in each region.*/
select region, sum(Quantity) as totalproducts sold from sales group by region;



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

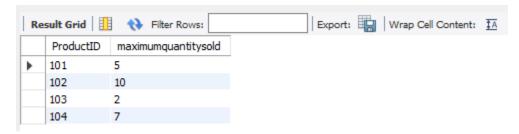
select ProductID, AVG(Quantity*Unitprice) as averagesalesamount from sales group by ProductID;



/*4.Find the regions where total sales are more than 3000.*/
select region, sum(Quantity*Unitprice) as totalsales from sales group by region having totalsales>3000;



/*5.Write a query to get the maximum quantity sold for each product.*/
select ProductID, MAX(Quantity) as maximum quantity sold from sales group by productID;



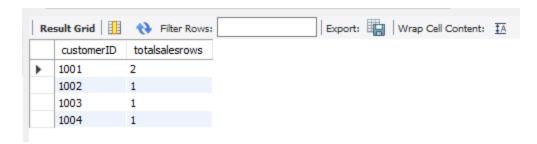
/*6.Write a query to calculate the average quantity of products sold per region.*/
select region, AVG(Quantity) as averagequantitysold from sales group by region;



/*7.Find the product IDs that have generated a total sales amount of more than 1000.*/
select ProductID, sum(Quantity*Unitprice) as totalsales from sales group by ProductID having totalsales>1000;



/*8.Write a query to get the total number of sales(rows) made for each customer.*/
select customerID, count(*) as totalsalesrows from sales group by customerID;



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

select productID, AVG(Quantity) as averagequantitysold from sales group by productID having averagequantitysold<5;



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

select customerID, region, sum(Quantity*Unitprice) as totalsales from sales group by region, customerID;



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

select date_format(saledate,'%Y-%M') AS Month, sum(Quantity*Unitprice) as totalsales from sales group by date_format(saledate,'%Y-%M');



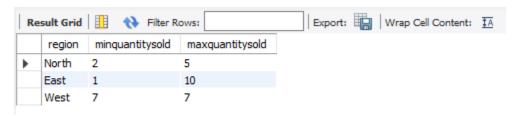
/*12.Find the regions where the average unit price is more than 200.*/

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



/*13.Write a query to get the minimum and maximum quantity sold for each region.*/

select region, min(Quantity) as minquantitysold, max(Quantity) as maxquantitysold from sales group by region;



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

select customerID, COUNT(*) as purchasecount from sales group by customerID having purchasecount>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 totalsales from sales group by ProductID having totalsales>1500;

