

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;
```

Action Output			
#	Time	Action	Message
✓ 1	22:36:51	use company4	0 row(s) affected

```
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,UnitPrice,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;

Result Grid





Filter Rows:

Export:



Wrap Cell Content:



	SaleID	ProductID	CustomerID	Saledate	Quantity	UnitPrice	Region
▶	1	101	1001	2018	5	200	North
	2	102	1002	2013	10	150	East
	3	103	1003	2007	2	300	North
	4	104	1001	2002	7	250	West
	5	101	1004	2016	1	200	East

/*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;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	ProductID	Totalsales
▶	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 totalproductssold from sales group by region;

Result Grid

Filter Rows:

Export:



Wrap Cell Content:

	region	totalproductssold
▶	North	7
	East	11
	West	7



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

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


Result Grid



Filter Rows:

Export:

Wrap Cell Content:



	ProductID	averagesalesamount
▶	101	600.0000
	102	1500.0000
	103	600.0000
	104	1750.0000

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

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

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	region	totalsales			

/*5. Write a query to get the maximum quantity sold for each product.*/

select ProductID, MAX(Quantity) as maximumquantitiesold from sales group by productID;

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	ProductID	maximumquantitiesold			
▶	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) as averagequantitiesold from sales group by region;

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	region	averagequantitiesold			
▶	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 totalsales from sales group by ProductID having totalsales>1000;

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	ProductID	totalsales			
▶	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(*) as totalsalesrows from sales group by customerID;

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	customerID	totalsalesrows			
▶	1001	2			
	1002	1			
	1003	1			
	1004	1			

/*9.Find the products for which the average quantity sold is less than5.*/

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

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	productID	averagequantitiesold			
▶	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 totalsales from sales group by region,customerID;

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
	customerID	region	totalsales			
▶	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 date_format(saledate,'%Y-%M') AS Month, sum(Quantity*Unitprice) as totalsales from sales group by date_format(saledate,'%Y-%M');

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Month	totalsales			
▶	NULL	5050			

/*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;

Result Grid




Filter Rows:

Export: 

Wrap Cell Content: 

	region	averageunitprice
▶	North	250.0000
	West	250.0000

/*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;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	region	minquantitysold	maxquantitysold
▶	North	2	5
	East	1	10
	West	7	7

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

select customerID, COUNT(*) as purchasecount from sales group by customerID having purchasecount>2;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	customerID	purchasecount
--	------------	---------------

/*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;

Result Grid




Filter Rows:

Export: 

Wrap Cell Content: 

	productID	totalsales
▶	104	1750