

```
1 • use precise;
2 • select * from sales_data;
3
4
5 -- 📌 Task 1: Group Sales Data by Product Category
6 -- Objective: Group the sales data by product category to analyze performance.
7 • select `Product Category`, count(`Product Category`) as category_count
8 from sales_data
9 group by `Product Category`
10 order by Category_count;
```

Result Grid    Filter Rows:   Export:  Wrap Cell Content:									
	Transaction ID	Date	Product Category	Product Name	Units Sold	Unit Price	Total Revenue	Region	Payment Method
▶	10001	2024-01-01	Electronics	iPhone 14 Pro	2	999.99	1999.98	North America	Credit Card
	10002	2024-01-02	Home Appliances	Dyson V11 Vacuum	1	499.99	499.99	Europe	PayPal
	10003	2024-01-03	Clothing	Levi's 501 Jeans	3	69.99	209.97	Asia	Debit Card
	10004	2024-01-04	Books	The Da Vinci Code	4	15.99	63.96	North America	Credit Card
	10005	2024-01-05	Beauty Products	Neutrogena Skincare Set	1	89.99	89.99	Europe	PayPal
	10006	2024-01-06	Sports	Wilson Evolution Basketball	5	29.99	149.95	Asia	Credit Card
	10007	2024-01-07	Electronics	MacBook Pro 16-inch	1	2499.99	2499.99	North America	Credit Card
	10008	2024-01-08	Home Appliances	Blueair Classic 480i	2	599.99	1199.98	Europe	PayPal
	10009	2024-01-09	Clothing	Nike Air Force 1	6	89.99	539.94	Asia	Debit Card
	10010	2024-01-10	Books	Dune by Frank Herbert	2	25.99	51.98	North America	Credit Card
	10011	2024-01-11	Beauty Products	Chanel No. 5 Perfume	1	129.99	129.99	Europe	PayPal
	10012	2024-01-12	Sports	Babolat Pure Drive Tennis ...	3	199.99	599.97	Asia	Credit Card
	10013	2024-01-13	Electronics	Samsung Galaxy Tab S8	2	749.99	1499.98	North America	Credit Card
	10014	2024-01-14	Home Appliances	Keurig K-Elite Coffee Maker	1	189.99	189.99	Europe	PayPal

```

11
12 -- 🔄 Task 2: Calculate Total Revenue per Product
13 -- Objective: Calculate the total revenue generated by each product.
14 • select `product name`,sum(`total revenue`)as total_revenue
15 from sales_data
16 group by `product name`;
17

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	product name	total_revenue
▶	iPhone 14 Pro	1999.98
	Dyson V11 Vacuum	499.99
	Levi's 501 Jeans	209.97
	The Da Vinci Code	63.96
	Neutrogena Skincare Set	89.99
	Wilson Evolution Basketball	149.95
	MacBook Pro 16-inch	2499.99
	Blueair Classic 480i	1199.98
	Nike Air Force 1	539.94
	Dune by Frank Herbert	71.96
	Chanel No. 5 Perfume	129.99
	Babolat Pure Drive Tennis ...	599.97
	Samsung Galaxy Tab S8	1499.98
	Keurig K-Elite Coffee Maker	529.97
	North Face Down Jacket	499.98
	Salt, Fat, Acid, Heat by S...	107.97

```
18 -- 🔄 Task 3: Count the Number of Orders per Product Category
19 -- Objective: Determine the number of orders placed for each product category.
20 • select `product category`,count(`Transaction ID`) as no_of_order
21 from sales_data
22 group by `product category`;
```

Result Grid | Filter Rows:  | Export: | Wrap Cell Content:

	product category	no_of_order
▶	Electronics	40
	Home Appliances	40
	Clothing	40
	Books	40
	Beauty Products	40
	Sports	40

Limit to 1000 rows

```
24 -- Task 4: Identify Top 5 Products by Revenue
25 -- Objective: Identify the top 5 products that generated the highest revenue.
26 • select `product name`,round(sum(`total revenue`)) as revenue
27 from sales_data
28 group by `product name`
29 order by revenue desc
30 limit 5;
31
```



Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	product name	revenue
▶	Canon EOS R5 Camera	3900
	LG OLED TV	2600
	MacBook Pro 16-inch	2500
	Apple MacBook Pro 16-inch	2399
	iPhone 14 Pro	2000

```

32  -- 🛠 Task 5: Calculate Average Order Value per Product Category
33  -- Objective: Calculate the average order value for each product category.
34  • select `product category`, ROUND(SUM(`Total Revenue`) /
35    COUNT(DISTINCT `Transaction ID`), 2) as avg_order_value
36    from sales_data
37    group by `product category`
38    order by avg_order_value desc;

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

	product category	avg_order_value
▶	Electronics	874.56
	Home Appliances	466.15
	Sports	358.16
	Clothing	203.22
	Beauty Products	65.55
	Books	46.55

```
40 -- 🧠 Task 6: Count Distinct Customers per Product Category
41 -- Objective: Determine the number of unique customers who purchased each product category.
42 • select `product category`, count(distinct `transaction id`) as unique_customer
43 from sales_data
44 group by `product category`;
45
46
47
```

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:

	product category	unique_customer
▶	Beauty Products	40
	Books	40
	Clothing	40
	Electronics	40
	Home Appliances	40
	Sports	40



```
49  -- 🛠 Task 7: Calculate Total Revenue for Each Month
50  -- Objective: Calculate the total revenue generated in each month.
51  • select extract(month from date) as Month,round(sum(`total revenue`)) as total_revenue
52  from sales_data
53  group by Month;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Month	total_revenue			
▶	1	14548			
	2	10803			
	3	12849			
	4	12452			
	5	8455			
	6	7385			
	7	6797			
	8	7278			

```

55  -- 🛠 Task 8: Count the Number of Orders per Month
56  -- Objective: Determine the number of orders placed in each month.
57
58 •  select extract(month from date) as Month,
59      count(`Transaction ID`) as No_of_orders
60  from sales_data
61  group by Month;
62
63  -- 🛠 Task 9: Calculate Total Revenue for Each Region

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	Month	No_of_orders
▶	1	31
	2	29
	3	31
	4	30
	5	31
	6	30
	7	31
	8	27




```
63  -- 🔄 Task 9: Calculate Total Revenue for Each Region
64  -- Objective: Calculate the total revenue generated in each region.
65
66 • select region,round(sum(`total revenue`)) as total_revenue
67 from sales_data
```

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

	region	total_revenue
▶	North America	36844
	Europe	21268
	Asia	22455

```
70 -- 🔄 Task 10: Identify the Product with the Highest Revenue
71 -- Objective: Identify the product that generated the highest revenue.
72 • select `Product Name`,round(sum(`total revenue`))
73 as Highest_revenue
74 from sales_data
75 group by `Product Name`
76 order by Highest_revenue desc
77 limit 1;
```

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content:  | Fetch rows: 




	Product Name	Highest_revenue
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▶	Canon EOS R5 Camera	3900
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```

79  -- 🌀 Task 11: Calculate the Number of Orders per Payment Method
80  -- Objective: Determine the number of orders placed using each payment method.
81  • select `payment method`,count(`transaction id`)
82      as No_of_Payment_Method
83      from sales_data
84      group by `payment method`
85      order by No_of_Payment_Method desc;
86

```

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

	payment method	No_of_Payment_Method
▶	Credit Card	120
	PayPal	80
	Debit Card	40

Limit to 1000 rows

```
89 -- Task 12: Calculate Total Revenue for Each Quarter
90 -- Objective: Calculate the total revenue generated in each quarter.
91 • select extract(year from date) as revenue_year,
92    EXTRACT(QUARTER FROM date) AS revenue_quarter,
93    round( SUM(`total revenue`))AS total_revenue
94 FROM sales_data
95 GROUP BY revenue_year,revenue_quarter
96 ORDER BY revenue_year,revenue_quarter;
97
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	revenue_year	revenue_quarter	total_revenue
►	2024	1	38201
	2024	2	28292
	2024	3	14075

```

98
99 -- 🌀 Task 13: Monthly Revenue and Order Volume
100 -- Objective: Calculate the total revenue and the number of unique orders for each month.
101 • select extract(year from `date`) as year,
102        extract(month from `Date`) as month,
103        round(sum(`total revenue`),2) as total_revenue,
104        count(distinct `transaction id`) as unique_orders
105 from sales_data
106 group by year,month
107 order by year,month;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	year	month	total_revenue	unique_orders
▶	2024	1	14548.32	31
	2024	2	10803.37	29
	2024	3	12849.24	31
	2024	4	12451.69	30
	2024	5	8455.49	31
	2024	6	7384.55	30
	2024	7	6797.08	31
	2024	8	7278.11	27