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1  -- Using database online_sales
2  • use online_Sales;
3  • show tables;
4
5

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Tables_in_online_sales				
▶ online_sales_data				

```

5
6  # Previewing data
7  • select * from online_sales_data;
8

```

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
	10015	2024-01-15	Clothing	North Face Down Jacket	2	249.99	499.98	Asia	Debit Card
	10016	2024-01-16	Books	Salt, Fat, Acid, Heat by S...	3	35.99	107.97	North America	Credit Card
	10017	2024-01-17	Beauty Products	Dyson Supersonic Hair Dryer	1	399.99	399.99	Europe	PayPal
	10018	2024-01-18	Sports	Manduka PRO Yoga Mat	4	119.99	479.96	Asia	Credit Card
	10019	2024-01-19	Electronics	Garmin Forerunner 945	2	499.99	999.98	North America	Credit Card
	10020	2024-01-20	Home Appliances	Ninja Professional Blender	1	99.99	99.99	Europe	PayPal
	10021	2024-01-21	Clothing	Zara Summer Dress	3	59.99	179.97	Asia	Debit Card
	10022	2024-01-22	Books	Gone Girl by Gillian Flynn	2	22.99	45.98	North America	Credit Card
	10023	2024-01-23	Beauty Products	Olay Regenerist Face Cream	1	49.99	49.99	Europe	PayPal

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10 -- Use EXTRACT(MONTH FROM order_date) for month
11 • select Date, extract(month from Date) as Month
12 from online_sales_data;
13
14

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Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Date	Month			
▶	2024-01-01	1			
	2024-01-02	1			
	2024-01-03	1			
	2024-01-04	1			
	2024-01-05	1			
	2024-01-06	1			
	2024-01-07	1			
	2024-01-08	1			
	2024-01-09	1			
	2024-01-10	1			
	2024-01-11	1			
	2024-01-12	1			
	2024-01-13	1			
	2024-01-14	1			
	2024-01-15	1			
	2024-01-16	1			
	2024-01-17	1			
	2024-01-18	1			
	2024-01-19	1			
	2024-01-20	1			
	2024-01-21	1			
	2024-01-22	1			
	2024-01-23	1			
	2024-01-24	1			

```

14
15 -- GROUP BY year/month
16 • select extract(year from Date) as Year,extract(month from Date) as month, sum(`Total Revenue`) as total_revenue
17 from online_sales_data
18 group by Year, month
19 order by total_revenue desc;
20

```

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
	Year	month	total_revenue			
▶	2024	1	14548.319999999992			
	2024	3	12849.239999999996			
	2024	4	12451.689999999995			
	2024	2	10803.369999999999			
	2024	5	8455.49			
	2024	6	7384.549999999998			
	2024	8	7278.109999999999			
	2024	7	6797.08			

```

21
22 -- Use SUM() for revenue
23 • select sum(`total revenue`) from online_sales_data;
24
25

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	sum(`total revenue`)
▶	80567.850000000008

```

25
26 -- COUNT(DISTINCT Transaction_id) for volume
27 • select count(distinct(`Transaction ID`))
28 from online_sales_data;
29

```




Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	count(distinct(`Transaction ID`))
▶	240

```

29
30 -- Use ORDER BY for sorting
31 • select region, sum(`total revenue`) as total_revenue
32 from online_sales_data
33 group by region
34 order by total_revenue desc;
35

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	region	total_revenue
▶	North America	36844.340000000002
	Asia	22455.449999999997
	Europe	21268.060000000005

```
36
37
38 -- Limit results for specific time periods
39 • select * from online_sales_data
40 where date between '2024-01-01' and '2024-01-15';
41
42
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:			
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