```sql
1 ●    Create database Sales_Trends;
2
3 ●    use Sales_Trends;
4
5 ●    show tables;
6
7 ●    rename table `online sales data` to orders;
8
9 ●    select * from orders;
10
```

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

```sql
11    -- Use EXTRACT(YEAR FROM Date) and EXTRACT(MONTH FROM Date) to get year and month.
12    -- For total revenue use SUM(Total Revenue), for orders use COUNT(DISTINCT Transaction ID
13
14 ●  SELECT EXTRACT(YEAR FROM Date) AS year,
15        EXTRACT(MONTH FROM Date) AS month,
16        SUM(`Total Revenue`) AS monthly_revenue,
17        COUNT(DISTINCT `Transaction ID`) AS order_volume
18    FROM  orders
19    GROUP BY
20        EXTRACT(YEAR FROM Date),
21        EXTRACT(MONTH FROM Date)
22    ORDER BY  year, month;
```

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

year	month	monthly_revenue	order_volume
2024	1	14548.319999999992	31
2024	2	10803.369999999999	29
2024	3	12849.239999999996	31
2024	4	12451.689999999995	30
2024	5	8455.49	31
2024	6	7384.549999999998	30
2024	7	6797.08	31
2024	8	7278.109999999999	27

```sql
24        -- Top-Performing Months
25
26 ●   SELECT   EXTRACT(MONTH FROM Date) AS month,
27              `Total Revenue` AS monthly_revenue
28     FROM orders
29     ORDER BY monthly_revenue DESC LIMIT 5;
30
```

Result Grid | Filter Rows: | Export: | W

month	monthly_revenue
4	3899.99
3	2599.98
1	2499.99
8	2399
1	1999.98

```sql
31        -- Average Revenue and Units Sold Per Order
32
33  •   SELECT
34          AVG(`Total Revenue`) AS avg_order_revenue,
35          AVG(`Units Sold`) AS avg_units_per_order
36      FROM
37          orders;
```

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

avg_order_revenue	avg_units_per_order
335.6993750000003	2.1583

```sql
39          -- Maximum and Minimum Order Value Per Month
40
41 ●    SELECT
42          EXTRACT(YEAR FROM Date) AS year,
43          EXTRACT(MONTH FROM Date) AS month,
44          MAX(`Total Revenue`) AS max_order_value,
45          MIN(`Total Revenue`) AS min_order_value
46      FROM
47          orders
48      GROUP BY
49          year, month
50      ORDER BY
51          year, month;
52
```

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

year	month	max_order_value	min_order_value
2024	1	2499.99	29.99
2024	2	1895	46
2024	3	2599.98	21.98
2024	4	3899.99	6.5
2024	5	1499.99	6.8
2024	6	1199.99	16.99
2024	7	749.99	18
2024	8	2399	6.7

```sql
53    -- Best Selling Category by Month
54
55 •  SELECT
56        EXTRACT(YEAR FROM Date) AS year,
57        EXTRACT(MONTH FROM Date) AS month,
58        `Product Category`,
59        SUM(`Units Sold`) AS total_units_sold
60    FROM
61        orders
62    GROUP BY
63        year, month, `Product Category`
64    ORDER BY
65        year, month, total_units_sold DESC;
66
```

Result Grid | Filter Rows: | Export: | Wrap

year	month	Product Category	total_units_sold
2024	1	Sports	17
2024	1	Clothing	16
2024	1	Books	14
2024	1	Electronics	10
2024	1	Home Appliances	6
2024	1	Beauty Products	5
2024	2	Clothing	19
2024	2	Books	16
2024	2	Sports	15
2024	2	Electronics	12
2024	2	Home Appliances	8
2024	2	Beauty Products	7
2024	3	Clothing	24
2024	3	Books	17

```sql
--
-- Orders and Revenue by Region

SELECT
    Region,
    COUNT(DISTINCT `Transaction ID`) AS orders,
    SUM(`Total Revenue`) AS total_revenue
FROM
    orders
GROUP BY
    Region
ORDER BY
    total_revenue DESC;
```

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

Region	orders	total_revenue
North America	80	36844.34000000002
Asia	80	22455.450000000008
Europe	80	21268.060000000005

```sql
80        -- Distinct Products Sold Each Month
81
82  •   SELECT
83          EXTRACT(YEAR FROM Date) AS year,
84          EXTRACT(MONTH FROM Date) AS month,
85          COUNT(DISTINCT `Product Name`) AS unique_products_sold
86      FROM
87          orders
88      GROUP BY
89          year, month
90      ORDER BY
91          year, month;
92
93
```

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

year	month	unique_products_sold
2024	1	31
2024	2	29
2024	3	31
2024	4	30
2024	5	31
2024	6	30
2024	7	31
2024	8	27