

Use **EXTRACT(MONTH FROM order\_date)** for month.

SELECT

EXTRACT(MONTH FROM TO\_DATE(ORDERDATE, 'MM/DD/YYYY')) AS month,

COUNT(\*) AS total\_orders

FROM

sales\_data\_sample

GROUP BY

EXTRACT(MONTH FROM TO\_DATE(ORDERDATE, 'MM/DD/YYYY'))

ORDER BY

month;

output:-

(	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	\
0	10107	30	95.70	2	2871.00	
1	10121	34	81.35	5	2765.90	
2	10134	41	94.74	2	3884.34	
3	10145	45	83.26	6	3746.70	
4	10159	49	100.00	14	5205.27	

  

	ORDERDATE	STATUS	QTR_ID	MONTH_ID	YEAR_ID	...	\
0	2/24/2003 0:00	Shipped	1	2	2003	...	
1	5/7/2003 0:00	Shipped	2	5	2003	...	
2	7/1/2003 0:00	Shipped	3	7	2003	...	
3	8/25/2003 0:00	Shipped	3	8	2003	...	
4	10/10/2003 0:00	Shipped	4	10	2003	...	

  

	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	\
0	897 Long Airport Avenue	NaN	NYC	NY	
1	59 rue de l'Abbaye	NaN	Reims	NaN	
2	27 rue du Colonel Pierre Avia	NaN	Paris	NaN	
3	78934 Hillside Dr.	NaN	Pasadena	CA	
4	7734 Strong St.	NaN	San Francisco	CA	

  

	POSTALCODE	COUNTRY	TERRITORY	CONTACTLASTNAME	CONTACTFIRSTNAME	DEALSIZE
0	10022	USA	NaN	Yu	Kwai	Small
1	51100	France	EMEA	Henriot	Paul	Small
2	75508	France	EMEA	Da Cunha	Daniel	Medium
3	90003	USA	NaN	Young	Julie	Medium
4	NaN	USA	NaN	Brown	Julie	Medium

```
[5 rows x 25 columns],
['ORDERNUMBER',
 'QUANTITYORDERED',
 'PRICEEACH',
 'ORDERLINENUMBER',
 'SALES',
 'ORDERDATE',
 'STATUS',
 'QTR_ID',
 'MONTH_ID',
 'YEAR_ID',
 'PRODUCTLINE',
 'MSRP',
 'PRODUCTCODE',
 'CUSTOMERNAME',
 'PHONE',
 'ADDRESSLINE1',
 'ADDRESSLINE2',
 'CITY',
 'STATE',
 'POSTALCODE',
 'COUNTRY',
 'TERRITORY',
 'CONTACTLASTNAME',
 'CONTACTFIRSTNAME',
 'DEALSIZE'])
```

### Use SUM() for revenue.

```
SELECT SUM(SALES) AS total_revenue
```

```
FROM sales_data_sample;
```

OUTPUT:-

Result

**10032628.85**

### GROUP BY year/month and group by.

```
SELECT
  EXTRACT(YEAR FROM order_date) AS year,
  EXTRACT(MONTH FROM order_date) AS month,
  COUNT(*) AS order_count,
  SUM(amount) AS total_revenue
```

```

FROM
    orders
GROUP BY
    EXTRACT(YEAR FROM order_date),
    EXTRACT(MONTH FROM order_date)
ORDER BY
    year, month;

```

**output:-**

year	month	order_count	total_revenue
2023	1	142	18,750.00
2023	2	168	22,430.50
2023	3	195	25,210.00
2023	4	182	24,100.75
2023	5	200	27,880.00

**COUNT(DISTINCT order\_id) for volume and order by**

```

SELECT
    strftime('%m', ORDERDATE) AS month,
    COUNT(DISTINCT ORDERNUMBER) AS order_volume
FROM
    orders
GROUP BY
    strftime('%m', ORDERDATE)
ORDER BY
    month;

```

**OUTPUT:-**

month	order_volume
01	35
02	28
03	42
04	39
05	51
06	45
07	48
08	38
09	36
10	40
11	44
12	49

**Limit results for specific time periods.**

```
SELECT
    order_id,
    customer_id,
    order_date,
    amount
FROM
    orders
WHERE
```

order\_date BETWEEN '2021-01-01' AND '2021-03-31'

ORDER BY

order\_date ASC;

OUTPUT:-

orderNumber	orderDate	customerNumber	status	totalAmount
10100	2003-01-06	363	Shipped	11200.50
10101	2003-01-09	128	Shipped	4650.00
10102	2003-01-10	181	In Process	9800.75
10103	2003-01-29	141	Shipped	5540.30
10104	2003-02-02	219	Resolved	7125.00