

SQL Query

- mysql --local-infile=1 -u root -p
- create database onlinesales;
- use onlinesales;
- create table orders (
order_id int,
order_date date,
product_id int,
amount decimal(10, 2),
cust_id int,
full_name varchar(100),
email varchar(100),
phone_no varchar(20)
);
- load data local infile "C:\\ProgramData\\MySQL\\MySQL Server 8.0\\Uploads\\Online_sales.csv"
into table orders
fields terminated by ','
enclosed by '"'
lines terminated by '\\n'
ignore 1 rows;
- select * from orders limit 10;

order_id	order_date	product_id	amount	cust_id	full_name	email	phone_no
100354678	2020-01-10	574772	1798.00	60124	Titus, Jani	jani.titus@gmail.com	405-959-1129
100354680	2020-10-01	574777	1199.20	60124	Titus, Jani	jani.titus@gmail.com	405-959-1129
100367357	2020-11-13	595185	99.90	60124	Titus, Jani	jani.titus@gmail.com	405-959-1129
100367360	2020-11-13	595192	47.60	60124	Titus, Jani	jani.titus@gmail.com	405-959-1129
100354677	2020-10-01	574769	49.00	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755
100356116	2020-10-08	577467	0.00	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755
100358724	2020-10-21	581862	0.00	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755
100403034	2020-12-24	656937	214.99	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755
100403077	2020-12-24	657023	214.99	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755
100403411	2020-12-24	657547	214.99	42485	Eaker, Lee	lee.eaker@gmail.com	239-335-6755

- select extract(month from order_date) as order_month
from orders limit 10;

order_month
1
10
11
11
10
10
10
12
12
12

- select extract(year from order_date) as order_year,
extract(month from order_date) as order_month
from orders
group by order_year, order_month limit 15;

order_year	order_month
2020	1
2020	10
2020	11
2020	12
2021	1
2021	2
2021	3
2021	4
2021	5
2021	6
2021	7
2021	8
2021	9
2021	10
2021	11

- select extract(year from order_date) as order_year,

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extract(month from order_date) as order_month,
sum(amount) as total_revenue
from orders
group by order_year, order_month limit 15;

```

order_year	order_month	total_revenue
2020	1	807486.47
2020	10	7198643.70
2020	11	2706047.41
2020	12	56514663.47
2021	1	5175089.03
2021	2	2970094.41
2021	3	18054713.97
2021	4	31337825.36
2021	5	8107677.72
2021	6	19620492.22
2021	7	15745341.88
2021	8	18349281.58
2021	9	9585719.05
2021	10	17189.09
2021	11	36980.27

- ```

select extract(year from order_date) as order_year,
extract(month from order_date) as order_month,
count(distinct order_id) as order_volume
from orders
group by order_year, order_month limit 15;

```

| order_year | order_month | order_volume |
|------------|-------------|--------------|
| 2020       | 1           | 1048         |
| 2020       | 10          | 8448         |
| 2020       | 11          | 3158         |
| 2020       | 12          | 60514        |
| 2021       | 1           | 8527         |
| 2021       | 2           | 5189         |
| 2021       | 3           | 15750        |
| 2021       | 4           | 32538        |
| 2021       | 5           | 9162         |

|                     |      |  |    |  |       |  |
|---------------------|------|--|----|--|-------|--|
|                     | 2021 |  | 6  |  | 16941 |  |
|                     | 2021 |  | 7  |  | 8993  |  |
|                     | 2021 |  | 8  |  | 7139  |  |
|                     | 2021 |  | 9  |  | 7140  |  |
|                     | 2021 |  | 10 |  | 22    |  |
|                     | 2021 |  | 11 |  | 28    |  |
| +-----+-----+-----+ |      |  |    |  |       |  |

- select extract(year from order\_date) as order\_year,  
extract(month from order\_date) as order\_month,  
sum(amount) as total\_revenue,  
count(distinct order\_id) as order\_volume  
from orders  
group by order\_year, order\_month  
order by order\_year, order\_month limit 15;

|                     |            |  |             |  |               |              |
|---------------------|------------|--|-------------|--|---------------|--------------|
| +-----+-----+-----+ |            |  |             |  |               |              |
|                     | order_year |  | order_month |  | total_revenue | order_volume |
| +-----+-----+-----+ |            |  |             |  |               |              |
|                     | 2020       |  | 1           |  | 807486.47     | 1048         |
|                     | 2020       |  | 10          |  | 7198643.70    | 8448         |
|                     | 2020       |  | 11          |  | 2706047.41    | 3158         |
|                     | 2020       |  | 12          |  | 56514663.47   | 60514        |
|                     | 2021       |  | 1           |  | 5175089.03    | 8527         |
|                     | 2021       |  | 2           |  | 2970094.41    | 5189         |
|                     | 2021       |  | 3           |  | 18054713.97   | 15750        |
|                     | 2021       |  | 4           |  | 31337825.36   | 32538        |
|                     | 2021       |  | 5           |  | 8107677.72    | 9162         |
|                     | 2021       |  | 6           |  | 19620492.22   | 16941        |
|                     | 2021       |  | 7           |  | 15745341.88   | 8993         |
|                     | 2021       |  | 8           |  | 18349281.58   | 7139         |
|                     | 2021       |  | 9           |  | 9585719.05    | 7140         |
|                     | 2021       |  | 10          |  | 17189.09      | 22           |
|                     | 2021       |  | 11          |  | 36980.27      | 28           |
| +-----+-----+-----+ |            |  |             |  |               |              |

```
select extract(year from order_date) as order_year,
extract(month from order_date) as order_month,
sum(amount) as total_revenue,
count(distinct order_id) as order_volume
from orders
where order_date between '2020-01-01' and '2021-12-31'
group by order_year, order_month
order by order_year, order_month;
```

| +-----+-----+-----+-----+ |             |               |              |
|---------------------------|-------------|---------------|--------------|
| order_year                | order_month | total_revenue | order_volume |
| +-----+-----+-----+-----+ |             |               |              |
| 2020                      | 1           | 807486.47     | 1048         |
| 2020                      | 10          | 7198643.70    | 8448         |
| 2020                      | 11          | 2706047.41    | 3158         |
| 2020                      | 12          | 56514663.47   | 60514        |
| 2021                      | 1           | 5175089.03    | 8527         |
| 2021                      | 2           | 2970094.41    | 5189         |
| 2021                      | 3           | 18054713.97   | 15750        |
| 2021                      | 4           | 31337825.36   | 32538        |
| 2021                      | 5           | 8107677.72    | 9162         |
| 2021                      | 6           | 19620492.22   | 16941        |
| 2021                      | 7           | 15745341.88   | 8993         |
| 2021                      | 8           | 18349281.58   | 7139         |
| 2021                      | 9           | 9585719.05    | 7140         |
| 2021                      | 10          | 17189.09      | 22           |
| 2021                      | 11          | 36980.27      | 28           |
| 2021                      | 12          | 25827.95      | 28           |
| +-----+-----+-----+-----+ |             |               |              |