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
|100354678 | 2020-10-01 |   574774 |  190.00 |   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
|100354680 | 2020-10-01 |   574779 |  639.20 |   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
|100367357 | 2020-11-13 |   595186 |   39.90 |   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
|100354677 | 2020-10-01 |   574770 |  135.00 |   42485 | Eaker, Lee  | lee.eaker@gmail.com  | 239-335-6755
|100354677 | 2020-10-01 |   574771 |  549.90 |   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 |
|          10 |
|          10 |
|          11 |
|          11 |
|          11 |
|          10 |
|          10 |
|          10 |
+-------------+
```

- 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,
  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 |    907970.41 |
|    2020 |     10 |   7973295.77 |
|    2020 |     11 |   2997190.64 |
|    2020 |     12 |  60362787.86 |
|    2021 |      1 |   5721343.70 |
|    2021 |      2 |   3387618.18 |
|    2021 |      3 |  21464244.21 |
|    2021 |      4 |  33578312.50 |
|    2021 |      5 |   8887621.79 |
|    2021 |      6 |  22617251.65 |
|    2021 |      7 |  18206011.35 |
|    2021 |      8 |  19941997.61 |
|    2021 |      9 |  10571122.74 |
|    2021 |     10 |     17627.36 |
|    2021 |     11 |     37367.47 |
+------------+-------------+--------------+
```

- 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 |      1623 |
|    2020 |     10 |      9455 |
|    2020 |     11 |      3735 |
|    2020 |     12 |     61070 |
|    2021 |      1 |      8527 |
|    2021 |      2 |      5189 |
|    2021 |      3 |     15751 |
|    2021 |      4 |     32539 |
```

```
|     2021 |          5 |        9162 |
|     2021 |          6 |       16941 |
|     2021 |          7 |        8994 |
|     2021 |          8 |        7140 |
|     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 |     907970.41 |         1623 |
|     2020 |         10 |    7973295.77 |         9455 |
|     2020 |         11 |    2997190.64 |         3735 |
|     2020 |         12 |   60362787.86 |        61070 |
|     2021 |          1 |    5721343.70 |         8527 |
|     2021 |          2 |    3387618.18 |         5189 |
|     2021 |          3 |   21464244.21 |        15751 |
|     2021 |          4 |   33578312.50 |        32539 |
|     2021 |          5 |    8887621.79 |         9162 |
|     2021 |          6 |   22617251.65 |        16941 |
|     2021 |          7 |   18206011.35 |         8994 |
|     2021 |          8 |   19941997.61 |         7140 |
|     2021 |          9 |   10571122.74 |         7140 |
|     2021 |         10 |      17627.36 |           22 |
|     2021 |         11 |      37367.47 |           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 |     907970.41 |         1623 |
|       2020 |          10 |    7973295.77 |         9455 |
|       2020 |          11 |    2997190.64 |         3735 |
|       2020 |          12 |   60362787.86 |        61070 |
|       2021 |           1 |    5721343.70 |         8527 |
|       2021 |           2 |    3387618.18 |         5189 |
|       2021 |           3 |   21464244.21 |        15751 |
|       2021 |           4 |   33578312.50 |        32539 |
|       2021 |           5 |    8887621.79 |         9162 |
|       2021 |           6 |   22617251.65 |        16941 |
|       2021 |           7 |   18206011.35 |         8994 |
|       2021 |           8 |   19941997.61 |         7140 |
|       2021 |           9 |   10571122.74 |         7140 |
|       2021 |          10 |      17627.36 |           22 |
|       2021 |          11 |      37367.47 |           28 |
|       2021 |          12 |      26846.77 |           28 |
+------------+-------------+---------------+--------------+
```