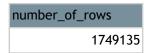```
-- preview of data
SELECT *
FROM processed_cyclistic
LIMIT 5;
```

| ride_id | rideable_type | started_at | ended_at | member_casual | ride_length | day_of_week |
|---------|---------------|------------|----------|---------------|-------------|-------------|
| 8FE8F7D9C10E88C7 | electric_bike | 2023-04-02 8:37:28 | 2023-04-02 8:41:37 | member | 0:04:09 | 7 |
| 34E4ED3ADF1D821B | electric_bike | 2023-04-19 11:29:02 | 2023-04-19 11:52:12 | member | 0:23:10 | 3 |
| 5296BF07A2F77CB5 | electric_bike | 2023-04-19 8:41:22 | 2023-04-19 8:43:22 | member | 0:02:00 | 3 |
| 40759916B76D5D52 | electric_bike | 2023-04-19 13:31:30 | 2023-04-19 13:35:09 | member | 0:03:39 | 3 |
| 77A96F460101AC63 | electric_bike | 2023-04-19 12:05:36 | 2023-04-19 12:10:26 | member | 0:04:50 | 3 |

```
-- total number of rows
SELECT COUNT(*) AS number_of_rows
FROM processed_cyclistic;
```

number_of_rows
1749135

```
-- number of members v casual users
SELECT member_casual, COUNT(*) AS num_of_users
FROM processed_cyclistic
GROUP BY member_casual;
```

member_casual	num_of_users
member	1,067,974
casual	681,161

```
-- average ride_length for casual members
SELECT AVG(ride_length) AS avg_ridelength
FROM processed_cyclistic
WHERE member_casual = 'casual';
```

avg_ridelength
42

```sql
-- types of user and there rideable_type
SELECT rideable_type, count(rideable_type) as num_of_users
FROM processed_cyclistic
GROUP BY rideable_type;
```

rideable_type	num_of_users
electric_bike	960,749
classic_bike	752,012
docked_bike	36,374

```sql
-- rideable_type counts with filter; member
SELECT rideable_type, count(rideable_type) as num_of_users
FROM processed_cyclistic
WHERE member_casual = 'member'
GROUP BY rideable_type;
```

rideable_type	num_of_users
electric_bike	573,163
classic_bike	494,811

```sql
-- rideable_type counts with filter; casual
SELECT rideable_type, count(rideable_type)
FROM processed_cyclistic
WHERE member_casual = 'casual'
group by rideable_type;
```

rideable_type	num_of_users
electric_bike	387,586
classic_bike	257,201
docked_bike	36,374

```sql
-- max ride_length
SELECT MAX(ride_length) max_ridelegnth
FROM processed_cyclistic;
-- 23 hours and 59 mins
```

max_ridelegnth
23:59:03

```sql
-- mode(most common) day of week
SELECT day_of_week,COUNT(day_of_week) as user_count
FROM processed_cyclistic
GROUP BY day_of_week
ORDER BY user_count DESC
LIMIT 1;
```

day_of_week	user_count
6	287,408

```
-- average ride length for users by day_of_week
SELECT day_of_week, ROUND((AVG(ride_length)/60),0) as avg_ridelength_mins
FROM processed_cyclistic
GROUP BY day_of_week
ORDER BY avg_ridelength_mins DESC;
```

day_of_week	avg_ridelength_mins
7	36
6	36
5	29
1	28
4	26
3	25
2	25

```
-- number of rides for users by day_of_week
SELECT day_of_week, COUNT(ride_id) AS num_of_rides
FROM processed_cyclistic pc
GROUP BY day_of_week
ORDER BY num_of_rides DESC;
```

day_of_week	num_of_rides
6	287,408
5	275,373
4	272,744
3	254,966
2	233,602
7	215,480
1	209,562

```
-- average ride_length for members and casual riders
SELECT member_casual, ROUND((AVG(ride_length)/60),0) as avg_ridelength_mins
FROM processed_cyclistic
GROUP BY member_casual
ORDER BY avg_ridelength_mins DESC;
```

member_casual	avg_ridelength_mins
casual	42
member	21