SQL Bicycles

checked ride_id unique no duplicates

```
ride_id, COUNT(ride_id)
FROM
202301_divvy_tripdata
GROUP BY
ride_id
HAVING
COUNT(ride_id) > 1
```

Checked only 2 types of members

SELECT member_casual, COUNT(*) FROM 202301_divvy_tripdata GROUP BY member_casual

Check start station name and start lat and start long start id all same:

SELECT start_station_name, start_station_id, start_lat, start_lng FROM `202301_divvy_tripdata`

Check end station name matched end_lat and end_lng

SELECT end_station_name, end_station_id, end_lat, end_lng from 202301_divvy_tripdata WHERE start_station_name IN (SELECT end_station_name FROM 202301_divvy_tripdata GROUP BY end_station_name HAVING COUNT(distinct end_station_id) > 1)

Check to see all the rides that were under 1 minute assume they were a mistake and not count toward analysis

6188 total

SELECT started_at, ended_at, TIMESTAMPDIFF(MINUTE, started_at, ended_at) AS Minute_Differnce, member_casual FROM 202301_divvy_tripdata WHERE TIMESTAMPDIFF(MINUTE, started_at, ended_at) < 1

Adding missing data records:

```
UPDATE `202301_divvy_tripdata`
SET start_station_name = "Pulaski Rd & 51st St",
start_station_id= 343
WHERE start_lat = 41.8;
```

If not enough data was given to complete records:

DELETE FROM `202301_divvy_tripdata` where end_lat is NULL or end_lat=""

How many casuals vs members



Average session members per ride

Showing rows 0 - 0 (1 total, Query took 0.2070 seconds.)	
ELECT member_casual, avg(TIMESTAMPDIFF(MINUTE,started_at, ended_at)) as minutes FROM 202301_divvy_tripdata where member_casual = "member"	
Show all Number of rows: 25 V Filter rows: Search this table	
ptions mber_casual minutes mber 9.6378	

How many different bicycles were used by casuals



Time of day riding casuals

```
select count(*), hour(started at) as hour
from 202301 divvy tripdata
where (
CASE
  WHEN hour(started_at) > 20 THEN 'Evening ride'
  WHEN hour(started at) > 16 THEN 'afternoon ride'
  WHEN hour(started_at) > 12 THEN 'midday ride'
  WHEN hour(started at) < 12 THEN 'morning ride'
  ELSE 'time is off'
END
) IN ('morning ride')
AND member casual = "casual"
```

Which day did casuals ride most

Casual

```
select *, dayofweek(started_at) as day, COUNT(dayofweek(started_at)) from 202301_divvy_tripdata where member_casual ="casual" group by dayofweek(started_at) ORDER BY `COUNT(dayofweek(started_at))` DESC
```