Descriptive Analysis

Average ride length for each membership\_type

SELECT

membership\_type,

AVG(trip\_duration) as average\_trip\_duration,

MIN(trip\_duration) as min\_trip\_duration,

MAX(trip\_duration) as max\_trip\_duration

FROM

cyclistic\_data\_cleaned

GROUP BY

membership\_type;

Ride length by membership type

SELECT

membership\_type,

COUNT(\*) as ride\_count

FROM

cyclistic\_data\_cleaned

GROUP BY

membership\_type;

Bike types by membership type

SELECT

membership\_type,

bike\_types,

COUNT(\*) as ride\_count

FROM

cyclistic\_data\_cleaned

GROUP BY

membership\_type,

bike\_types

ORDER BY

membership\_type,

ride\_count DESC;

Average trip duration by membership type and bike types

Select

membership\_type,

bike\_types,

ROUND(AVG(trip\_duration), 2) AS avg\_trip\_duration\_minutes

From cyclistic\_data\_cleaned

GROUP BY

membership\_type,

bike\_types

ORDER BY

membership\_type,

bike\_types;

Number of rides by day of week by membership type

For Member

SELECT

membership\_type,

day\_of\_week,

COUNT(\*) as num\_of\_rides

FROM

cyclistic\_data\_cleaned

WHERE

membership\_type = 'casual'

GROUP BY

day\_of\_week,

membership\_type

ORDER BY

day\_of\_week,

membership\_type;

For Casual

SELECT

membership\_type,

day\_of\_week,

COUNT(\*) as num\_of\_rides

FROM

cyclistic\_data\_cleaned

WHERE

membership\_type = 'member'

GROUP BY

day\_of\_week,

membership\_type

ORDER BY

day\_of\_week,

membership\_type;

Popular time of day by membership type

SELECT

membership\_type,

EXTRACT(HOUR FROM started\_at) AS hour\_of\_day,

COUNT(\*) as ride\_count

From cyclistic\_data\_cleaned

GROUP BY

hour\_of\_day,

membership\_type

ORDER BY

hour\_of\_day,

membership\_type;

Rides per month by membership type

SELECT

EXTRACT(MONTH FROM started\_at) AS month\_number,

TO\_CHAR(started\_at, 'Month') AS month\_name,

membership\_type,

COUNT(\*) AS ride\_count

From cyclistic\_data\_cleaned

GROUP BY

month\_number,

month\_name,

membership\_type

ORDER BY

month\_number,

month\_name,

membership\_type;

Rides per season by membership type

SELECT

membership\_type,

CASE

WHEN EXTRACT(MONTH FROM started\_at) IN (3, 4, 5) THEN 'Spring'

WHEN EXTRACT(MONTH FROM started\_at) IN (6, 7, 8) THEN 'Summer'

WHEN EXTRACT(MONTH FROM started\_at) IN (9, 10, 11) THEN 'Fall'

WHEN EXTRACT(MONTH FROM started\_at) IN (12, 1, 2) THEN 'Winter'

END AS season,

COUNT(\*) AS ride\_count

From cyclistic\_data\_cleaned

GROUP BY

season,

membership\_type

ORDER BY

season,

membership\_type;