Creating the table

Create table cyclist_data_m(Ride_id vasrchar(50), Bike_type varchar(20),
start_station_station varchar(150), end_station_name varchar(150),
Member_type varchar(20), Ride_time float, day varchar(10), month varchar(10), hour int,
distance float);

Data
select * from cyclist_data_m;

	Ride_id	Bike_type	start_station_station	end_station_name	Member_t	Ride_time	day	month	hour	distance
1	"3564070EEFD12711"	"Electric"	"Paulina St & Howard St"	"University Library (NU)"	"Member"	11.8	"Wednesday"	"Apr"	"17"	3.75225581
2	"0B820C7FCF22F489"	"Classic"	"Wentworth Ave & Cermak Rd"	"Green St & Madison St"	"Member"	20.1666666666667	"Sunday"	"Apr"	"19"	3.70499109
3	"89EEEE32293F07FF"	"Classic"	"Halsted St & Polk St"	"Green St & Madison St"	"Member"	6.13333333333333	"Wednesday"	"Apr"	"19"	1.14098554
4	"84D4751AEB31888D"	"Classic"	"Wentworth Ave & Cermak Rd"	"Delano Ct & Roosevelt Rd"	"Casual"	9.38333333333333	"Friday"	"Apr"	"21"	1.59937292
5	"56648CF0D1DE7A8B"	"Electric"	"Halsted St & Polk St"	"Clinton St & Madison St"	"Member"	5.68333333333333	"Saturday"	"Apr"	"15"	1.30963933
6	"AA9EB7B02E1FC128"	"Classic"	"Desplaines St & Randolph St"	"Canal St & Adams St"	"Member"	4.3	"Thursday"	"Apr"	"16"	0.78895446
7	"9E1086705544A73861"	"Classic"	"Desplaines St & Randolph St"	"Canal St & Adams St"	"Member"	4.63333333333333	"Monday"	"Apr"	"17"	0.78895446
8	"22291F9B3B344390"	"Classic"	"Franklin St & Jackson Blvd"	"Morgan St & Lake St"	"Member"	12.4	"Tuesday"	"Apr"	"08"	1.95984878
9	"7E14444DA4A4B2BC"	"Electric"	"Halsted St & Clybourn Ave"	"Halsted St & Clybourn Ave"	"Member"	0.533333333333333	"Friday"	"Apr"	"11"	0.0006017
10	"D55A28D2B63A7EA9"	"Electric"	"Halsted St & Clybourn Ave"	"Halsted St & Clybourn Ave"	"Member"	1.48333333333333	"Friday"	"Apr"	"23"	0.01630672
11	"F04AF7D88CE260D1"	"Electric"	"Wentworth Ave & Cermak Rd"	"Calumet Ave & 18th St"	"Casual"	13.7666666666667	"Saturday"	"Apr"	"15"	1.47063758

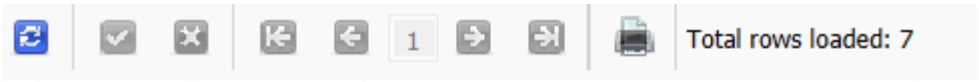
Number of casual and member riders
Select member_type,
count(member_type) as Count
from cyclist_data_m
group by member_type;

	member_type	Count
1	"Casual"	1645613
2	"Member"	2629876

Number of member and casual rider based on ride type
Select Bike_type,
member_type,
count(Bike_type) as Count
from cyclist_data_m
group by member_type, Bike_type
order by count(Bike_type) desc;

	Bike_type	member_type	Count
1	"Classic"	"Member"	1673824
2	"Electric"	"Member"	956052
3	"Classic"	"Casual"	801477
4	"Electric"	"Casual"	705651
5	"Docked"	"Casual"	138485

Number of riders on each day during the whole year
```
Select strftime("%w", start_time) as weekday,
case strftime("%w", start_time)
when "0" then "Sunday"
when "1" then "Monday"
when "2" then "Tuesday"
when "3" then "Wednesday"
when "4" then "Thursday"
when "5" then "Friday"
when "6" then "Saturday"
else "None"
end as "Day", count(strftime("%w", start_time))
from cyclist_data
group by day
order by weekday;
```



	weekday	Day	count(strftime("%w", start_time))
1	0	Sunday	787448
2	1	Monday	760267
3	2	Tuesday	815729
4	3	Wednesday	822889
5	4	Thursday	862904
6	5	Friday	830869
7	6	Saturday	923614

Number of member and casual rider on each day

```
Select day, member_type, count(member_type) from cyclist_data_m group by day,
member_type;
```

Number of rides based on time
```
select strftime("%H", start_time) as Hour,
count(strftime("%H", start_time)) as "No. of Rides"
from cyclist_data
group by Hour
order by Hour;
```

Grid view | Form view

Total rows loaded: 24

	Hour	No. of Rides
1	00	83806
2	01	52877
3	02	31996
4	03	19195
5	04	16853
6	05	45626
7	06	127176
8	07	233417
9	08	287789
10	09	224775
11	10	235038

Top 10 start station name

```
Select distinct start_station_station,
count(start_station_station)
from cyclist_data_m
where start_station_station <> "NA"
group by start_station_station
order by count(start_station_station) desc
limit 10;
```

Total rows loaded: 10

	start_station_station	count(start_station_station)
1	"Streeter Dr & Grand Ave"	61125
2	"DuSable Lake Shore Dr & North Blvd"	34707
3	"Wells St & Concord Ln"	34310
4	"DuSable Lake Shore Dr & Monroe St"	33248
5	"Michigan Ave & Oak St"	33032
6	"Clark St & Elm St"	32233
7	"Kingsbury St & Kinzie St"	31494
8	"Millennium Park"	29420
9	"Wells St & Elm St"	28848
10	"Theater on the Lake"	28495

Top 10 end station name

```
Select distinct end_station_name,
count(end_station_name)
from cyclist_data_m
where end_station_name <> "NA"
group by end_station_name
order by count(end_station_name) desc
limit 10;
```

Total rows loaded: 10

	end_station_name	count(end_station_name)
1	"Streeter Dr & Grand Ave"	62537
2	"DuSable Lake Shore Dr & North Blvd"	37577
3	"Wells St & Concord Ln"	34597
4	"Michigan Ave & Oak St"	34094
5	"DuSable Lake Shore Dr & Monroe St"	32323
6	"Clark St & Elm St"	31917
7	"Kingsbury St & Kinzie St"	30550
8	"Millennium Park"	30395
9	"Theater on the Lake"	28958
10	"Wells St & Elm St"	28357

List of famous routes (Start station –> End station)

```
Select distinct(start_station_name || "---->" || end_station_name) as Rides,
count(start_station_name || " " || " ----> " || " " || end_station_name) as count
from cyclist_data
where start_station_name <> "NA" and end_station_name <> "NA"
group by Rides
order by count desc;
```

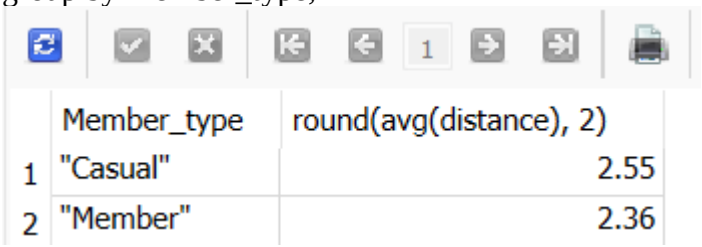
Total rows loaded: 175928

	Rides	count
1	"Streeter Dr & Grand Ave"---->"Streeter Dr & Grand Ave"	11881
2	"Ellis Ave & 60th St"---->"University Ave & 57th St"	7609
3	"DuSable Lake Shore Dr & Monroe St"---->"DuSable Lake Shore Dr & Monroe St"	7247
4	"Ellis Ave & 60th St"---->"Ellis Ave & 55th St"	
5	"University Ave & 57th St"---->"Ellis Ave & 60th St"	
6	"Ellis Ave & 55th St"---->"Ellis Ave & 60th St"	
7	"DuSable Lake Shore Dr & Monroe St"---->"Streeter Dr & Grand Ave"	
8	"Michigan Ave & Oak St"---->"Michigan Ave & Oak St"	
9	"Millennium Park"---->"Millennium Park"	4427
10	"State St & 33rd St"---->"Calumet Ave & 33rd St"	4045
11	"Calumet Ave & 33rd St"---->"State St & 33rd St"	3910

Col
count(start_
|| " " || " --
end_stati
Data type:

Average distance of casual and member rider

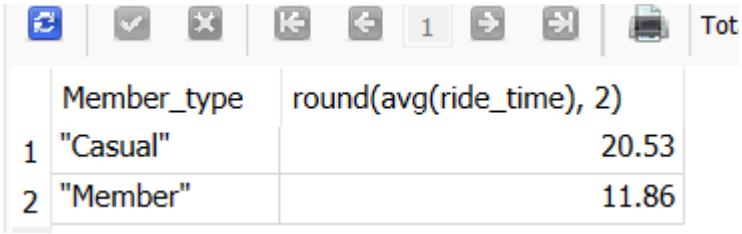
```
select Member_type, round(avg(distance), 2)
from cyclist_data_m
group by Member_type;
```



	Member_type	round(avg(distance), 2)
1	"Casual"	2.55
2	"Member"	2.36

Average ride time of member and casual rider

```
select Member_type,
round(avg(ride_time), 2)
from cyclist_data_m
group by Member_type;
```



	Member_type	round(avg(ride_time), 2)
1	"Casual"	20.53
2	"Member"	11.86