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Bike Rental Spreadsheet Project

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INTRODUCTION

For this project, I wanted to show off my skills using a spreadsheet program. I used Google Sheets, which basically works the same as Excel. For the data I used a bike rental company dataset, provided – and licensed – by my course.

PROBLEMS

• The dataset was too big to work with.

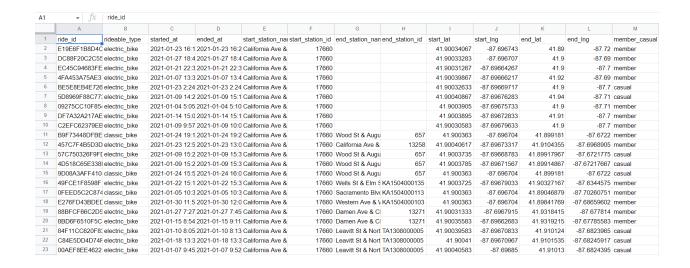
I wanted to use a year's worth of data to show changes over a long period of time by using monthly datasets (Jan. - Dec.), but my laptop kept crashing.

SOLUTIONS

 I realized that I could only realistically use 1 month's worth of data without crashing. So all of my conclusions cover only the month of January, 2021.

RAW DATA SAMPLE

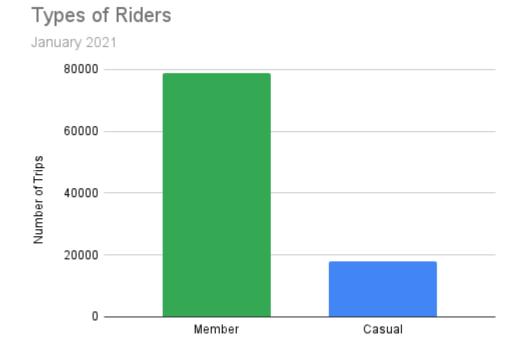
202101-divvy-tripdata.csv 18.39 MB



CONCLUSIONS

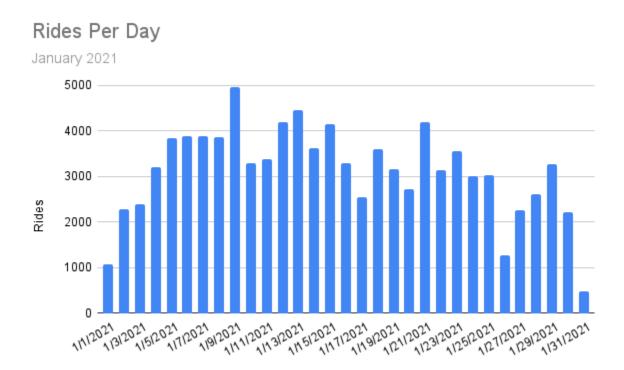
Members vs Casual Riders

Members of the bike sharing company were the majority of renters, with Casual riders making up about a quarter of renters for January.



Monthly Ridership

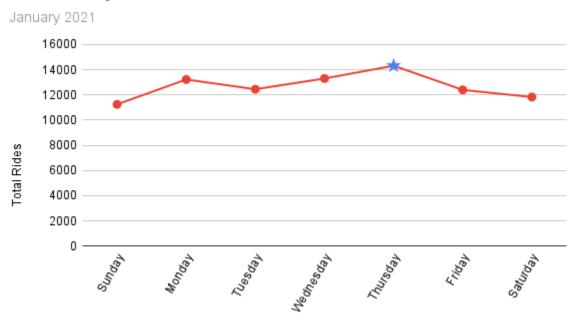
There are no visible trends for ridership during the month. There is a slight drop off by the end of the month. (This might be due to people trying to bike as part of their New Year's resolutions then losing interest by the end of the month, but without another month's data for comparison we don't know.)



Daily Ridership

Here we see that ridership is consistent during the week as well with Thursday being slightly busier.

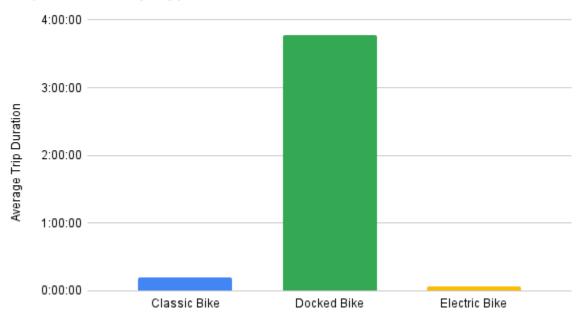
Busiest Day of the Week



Length of Rides by Bike

Here we see that Docked Bikes are the preferred choice for longer trips.

Trip Duration by Type of Ride



Overall Usage

Finally we see that Classic Bikes are the overall choice for renters.

Usage by Bicycle Type

January 2021



RECOMMENDATIONS

I would recommend focusing marketing efforts on increasing membership enrollment, as we see that Members tend to take more trips than Casual riders.