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PyBer\_Analysis

The Purpose of our analysis is to create a ride-sharing summary DataFrame by city type (Rural, Suburban and Urban). We also need to create multiple line graphs that shows total weekly fares by city type. We used groupby() with the count and sums to get the total number of rides, total number of drivers, and the total fares for each city type. The total number of average fare rides for each city type is retrieved. In the second part of the this exercise we used the pivot() and resume function to create a multiple line graph.

Chart, line chart

Description automatically generated

**Summary:**

Based on the results:

* The correlation between the drivers force, the number of rides and the average fare price is not clear so additional analysis including geographic size, travel distances, cellphone coverage would be needed to get a clearer picture.
* Suburban drivers were only about 17% of the total drivers but accounted for more than 30% of the total fares and just above a quarter of the rides.
* Additional analysis including geographic size, population and social conditions, travel distances would be interesting to dive in:
* On the scatter plot, we notice some urban cities with low number of drivers and low average fare but pretty high count of rides. Analyzing the average number of drivers against the population and infrastructure and economic activity in those cities would help understand those disparities.