Objective:

Analyze fleet performance data to identify cost optimization opportunities, assess vehicle utilization, and improve

Data cleaning:

Removed duplicates

Formatted the date column to yyyy/mm/dd

Reduced numerical columns to 2 decimal place

Confirmed if we have null cell

Check for outliers

Perform Analysis:

Added 3 columns:

- Field_Efficiency=Distance_Travelled/Fuel_Consumed
- Revenue_per_Trip=Revenue(USD)/Trip_Count
- Maintenance_Cost_per_Km=Maintence_Cost(USD)/Distance_Travelled(Km)

Pivot Table:

- Sum of Revenue by Region
- Rank vehivlr by total Revenue

Visualize Insights:

- Revenue by Region using clustered bar chart
- Maintence cost over time using line chart
- Revenue show by Region using Pie Chart
- Fuel_Efficiency vs Distance using Scattered plot

Building Dashboard:

- Add Slicers for Region,Date and Driver_Name
- Create 4 KPIs:
  - Total Revenue(UDS)
  - **Averag**e Fuel Efficiency
  - Most/Least Profitable Vehicles

Insights:

- West Region has the highest Revenue
- Vehicle V9756 is the most profitable
- Ethan is the drive with the highest revenue per trip
- Revenue pick is in January

Recommendation:

- Assign vehicles with better fuel efficiency to longer routes.
- Increase operations in the West Region to capitalize on high revenue potential
- Incentivize drivers like Ethan to share best practices with others.
- Ensure maximum fleet availability during **Month January** to handle increased demand
- Monitor and improve underperforming vehicle V6700

e overall efficiency in the transportation industry.