

# Voyage Vista: illuminating insights from Uber Expeditionary Analysis\_ Project documentation

Submitted by

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QUEEN MARY'S COLLEGE  
(AUTONOMOUS)

|||RD B.SC PHYSICS TM

# 1.Introduction

- 1.1 overview

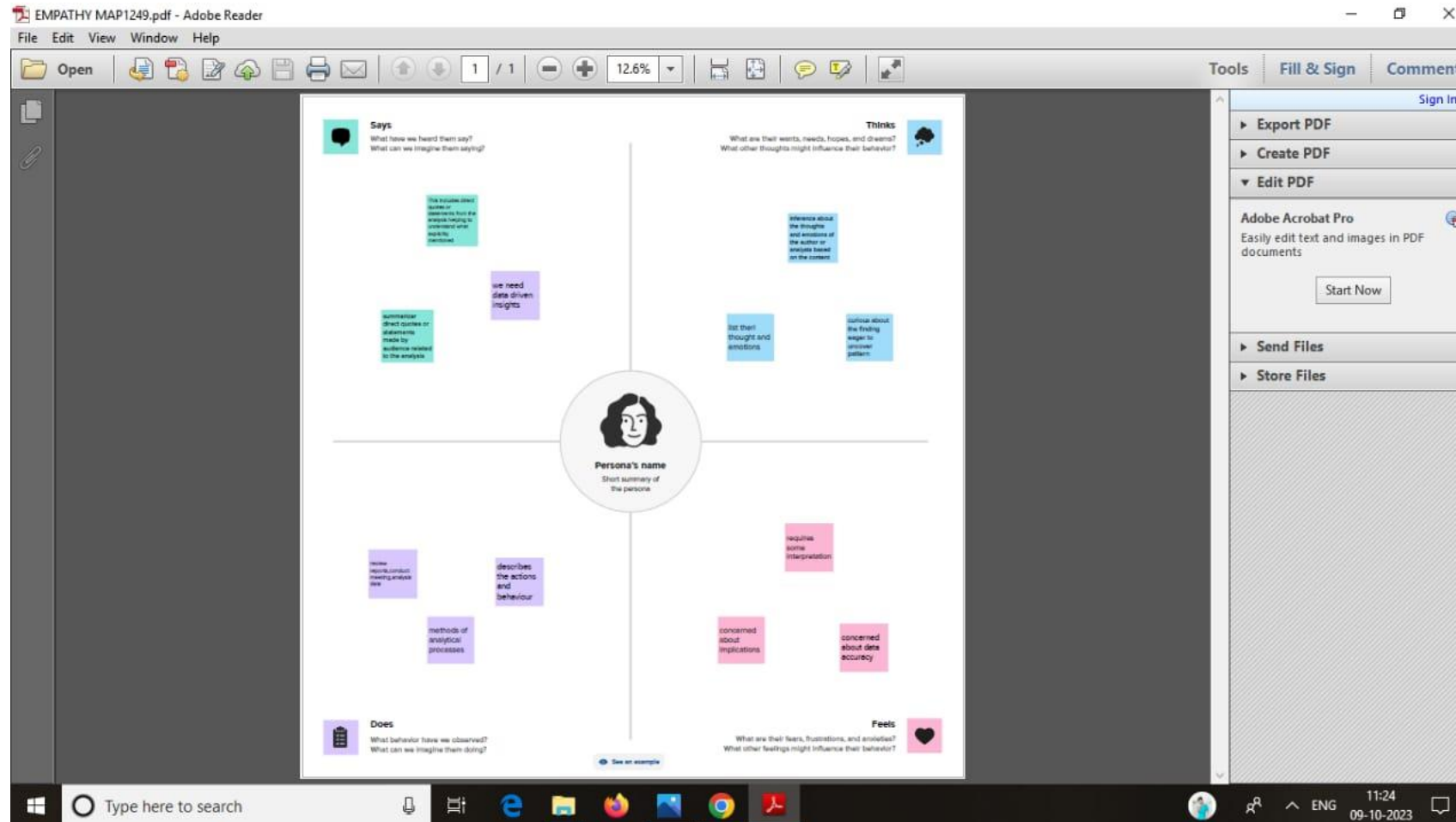
**Daily, weekly,or monthly Analysis : uber's data can be analyzed on a daily , weekly, monthly basis to understand the Trend's and patterns of trip volumes. This Analysis can help identify peak hours or days of high demand and optimize driver availability during those times.**

- 1.2 purpose.

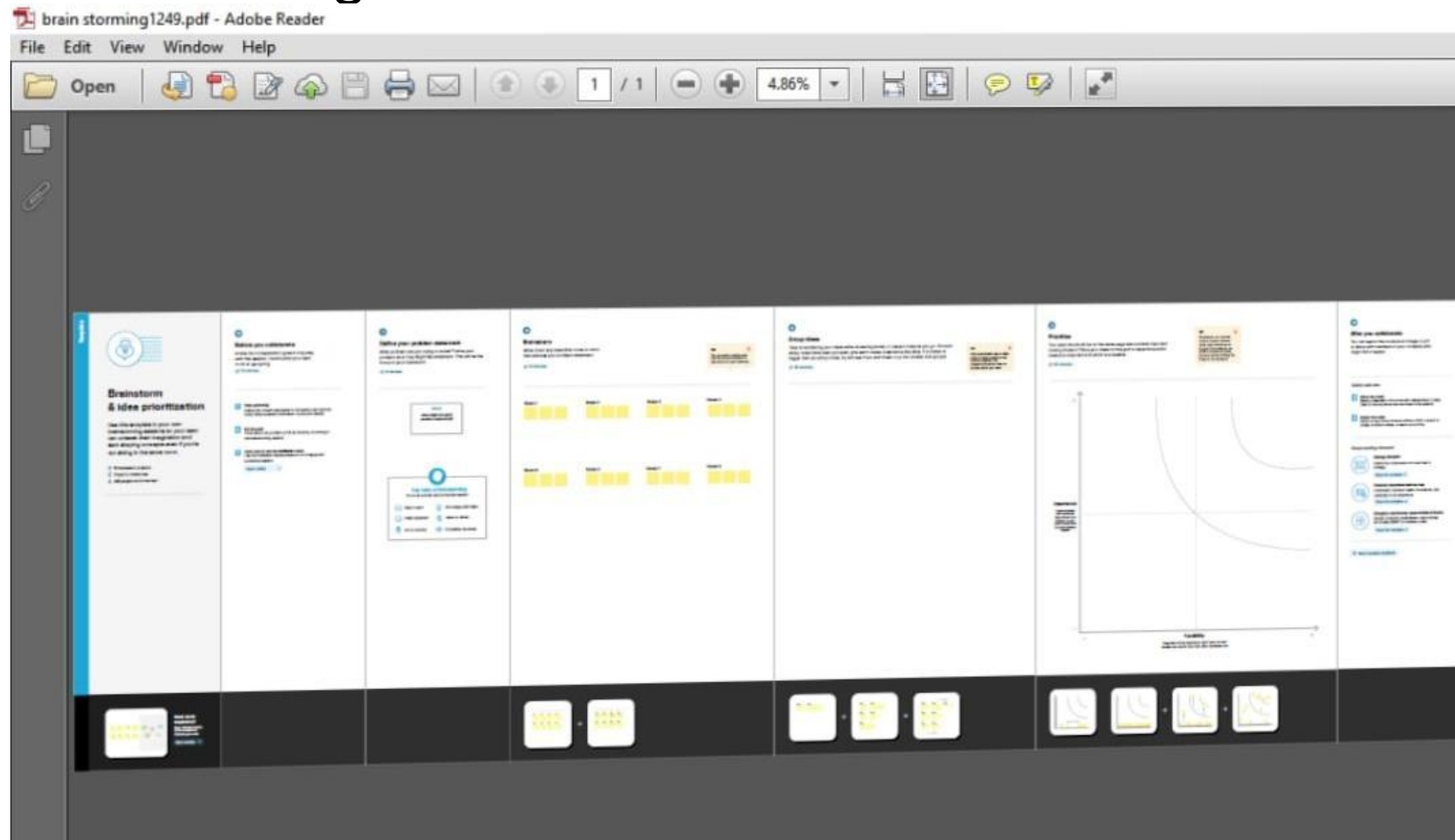
This analysis can help identify peak hours or days of high demand and optimize driver availability during those times. Trips can be analyzed based on geographic regions or specific cities to identify areas with higher demand.

# 2. PROBLEM DEFINITION & DESIGN THINKING

- 2.1 Empathy map

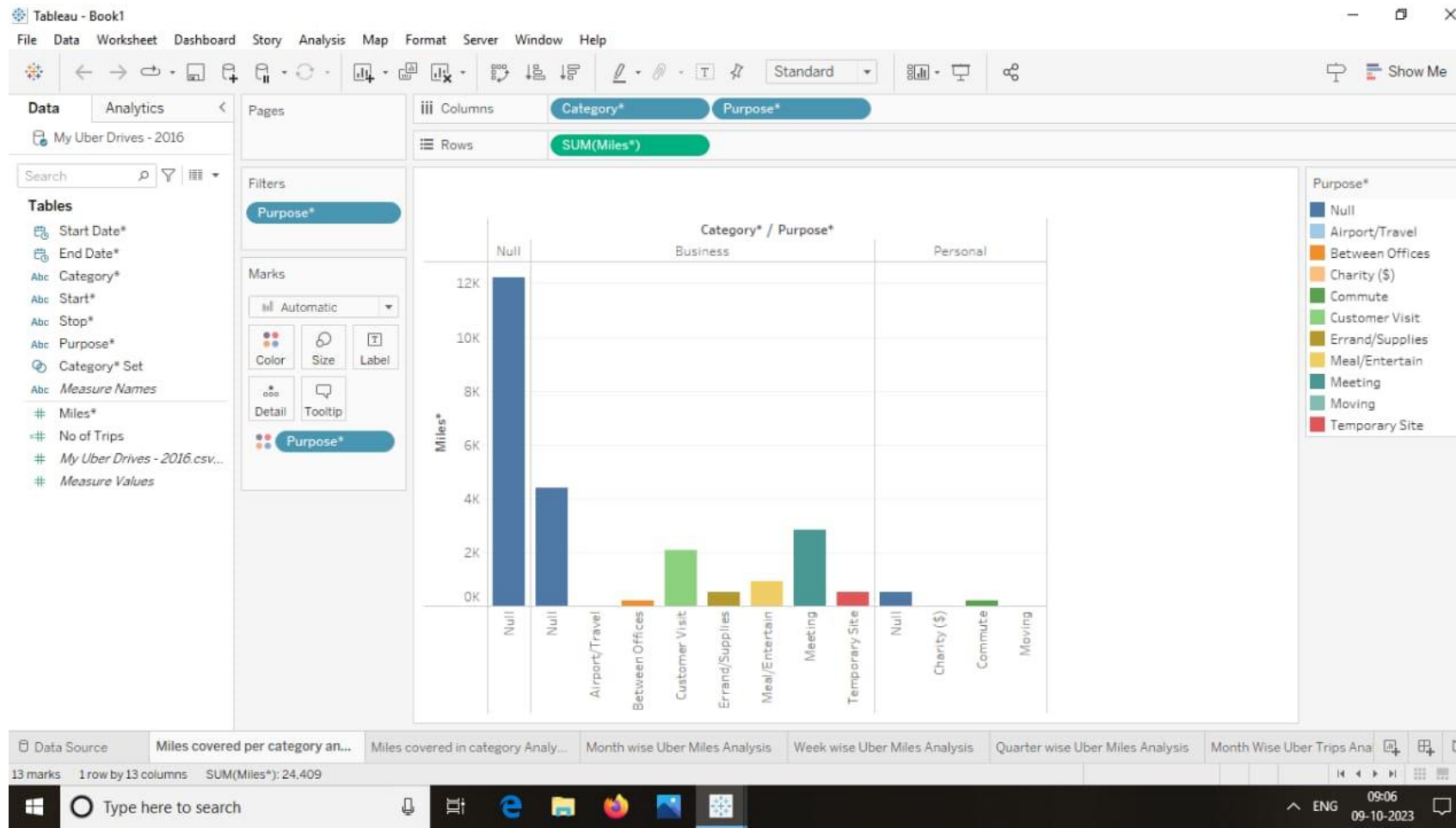


- 2.2 Brain Storming

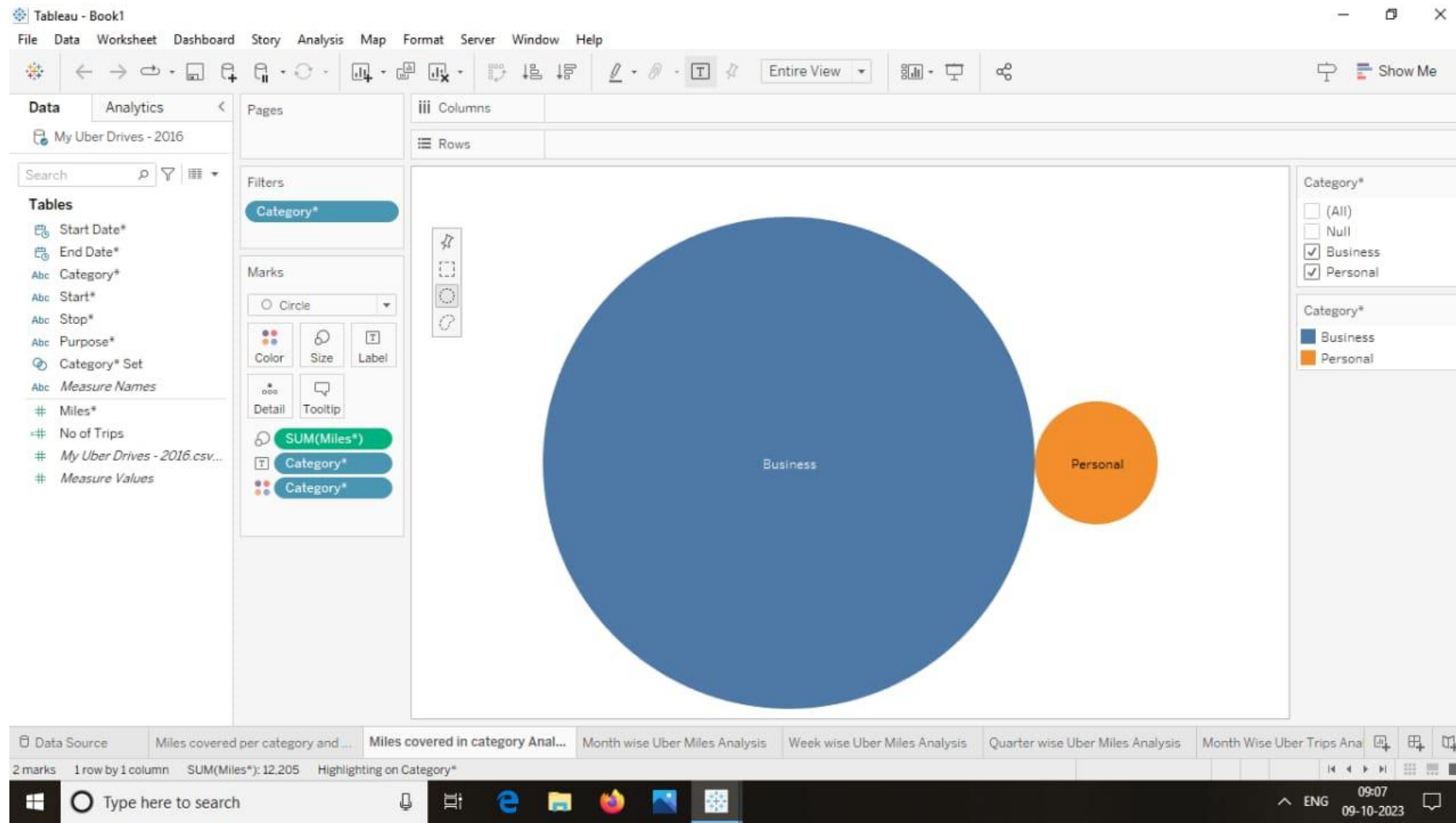


# 3.RESULT

## 1.1 Miles covered per category and purpose analysis

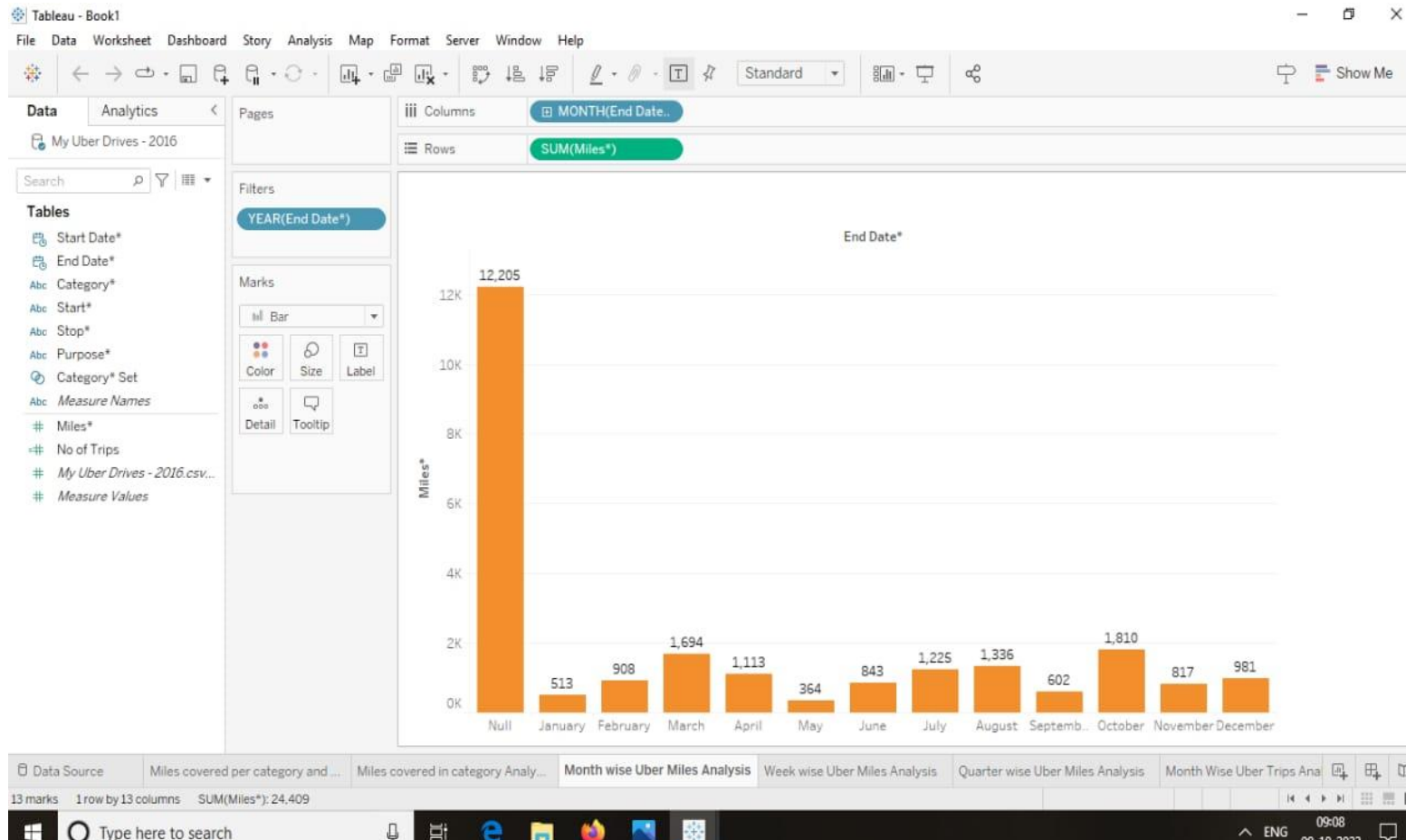


- 1.2 Miles covered category Analysis

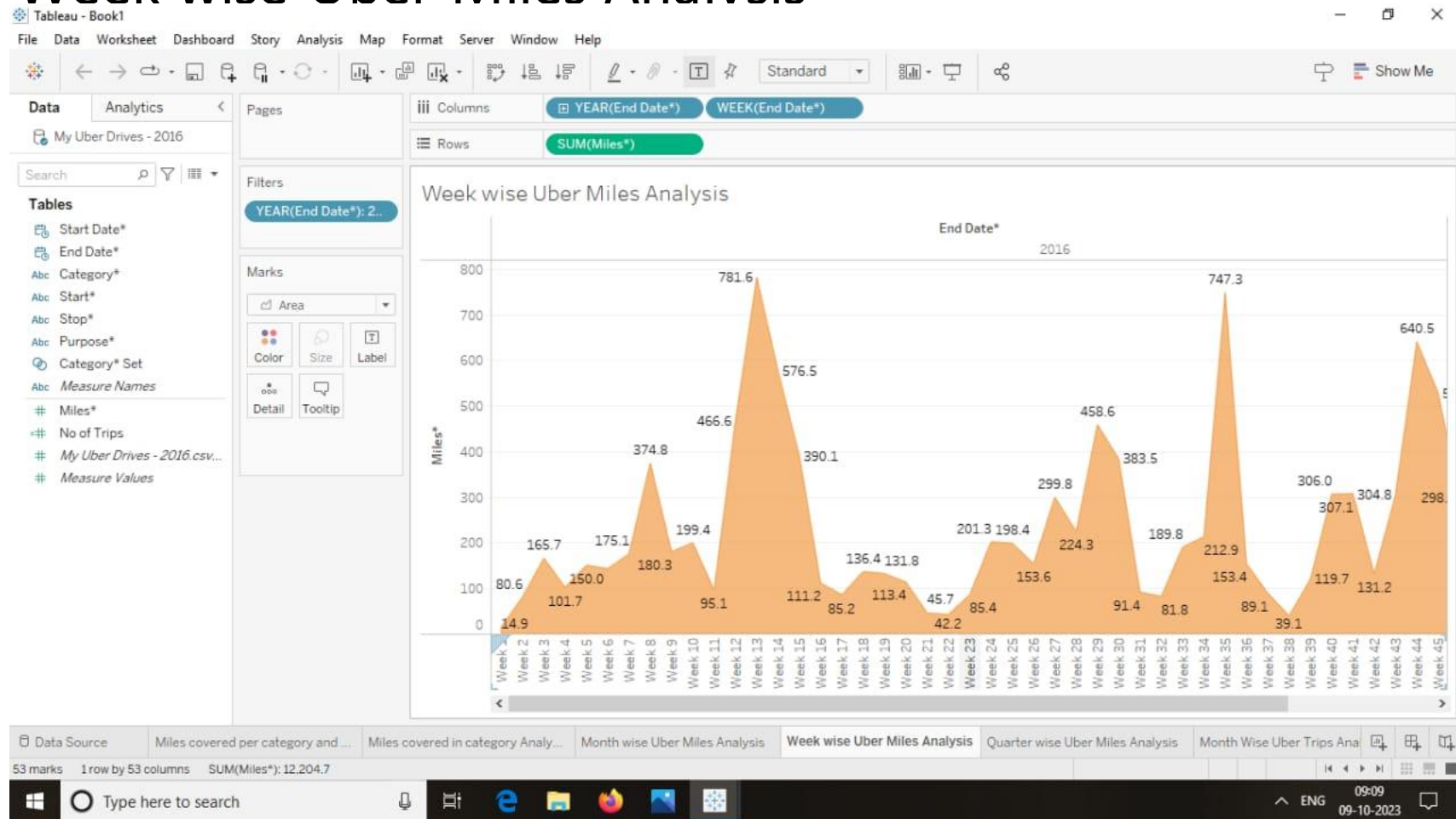




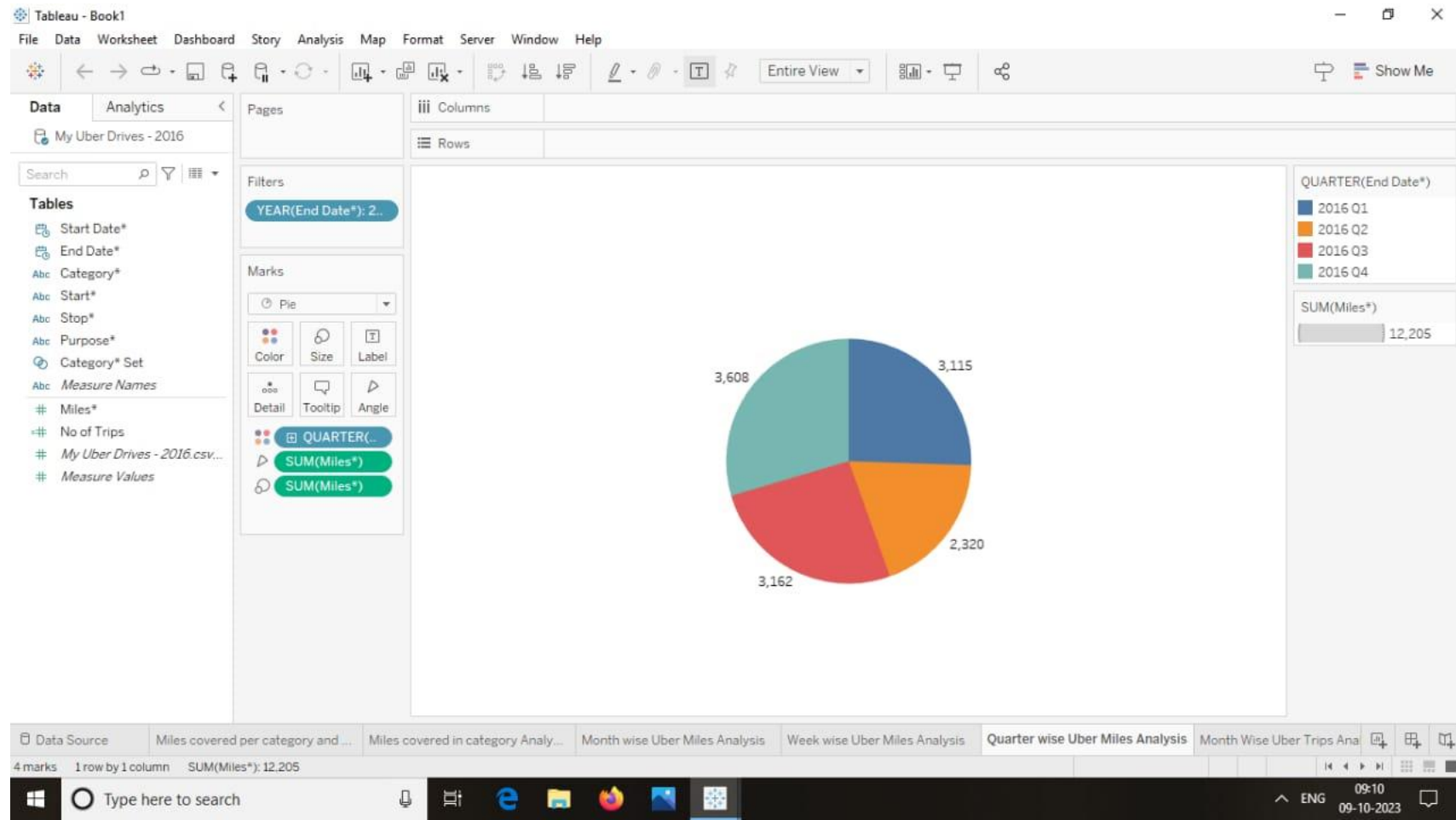
- 1.3 Month wise Uber Miles Analysis



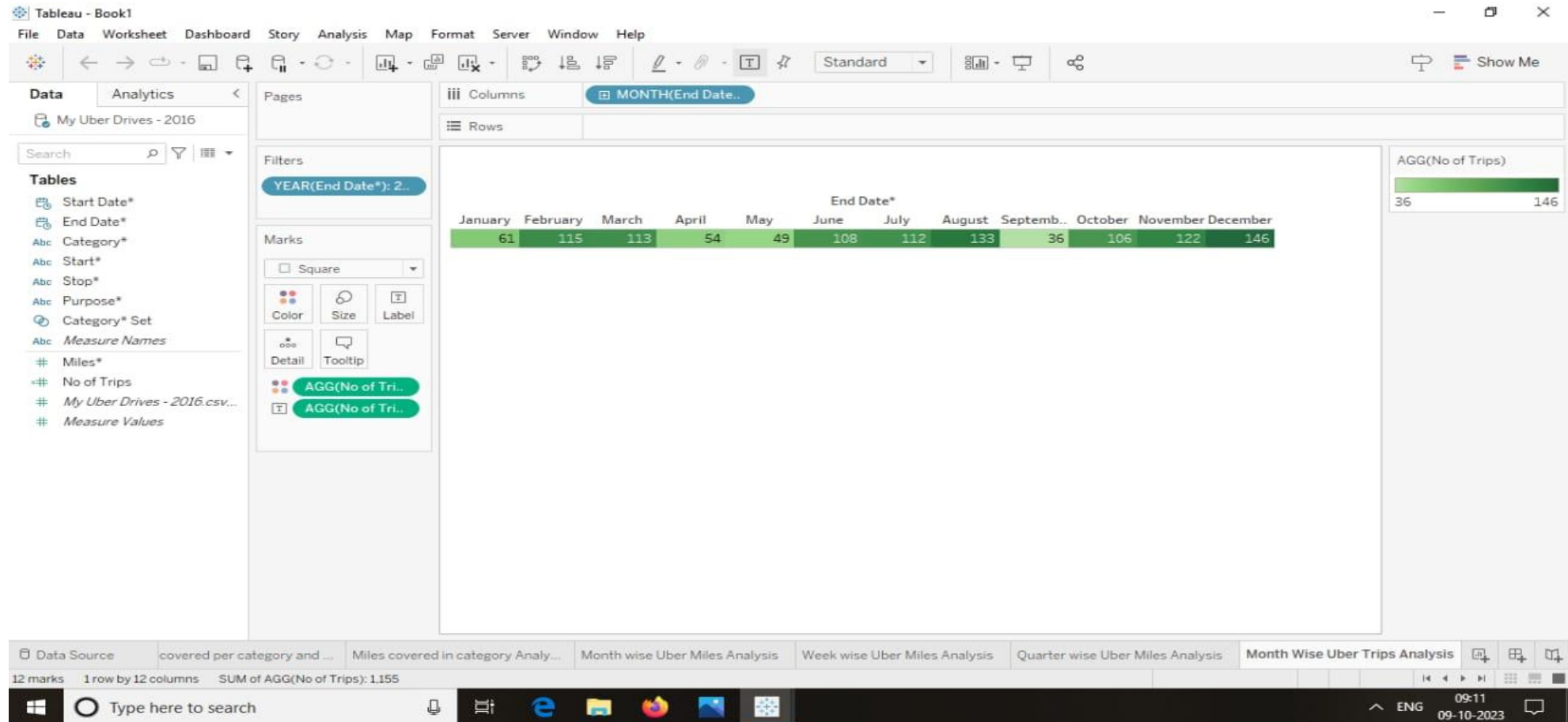
## • 1.4 Week wise Uber Miles Analysis



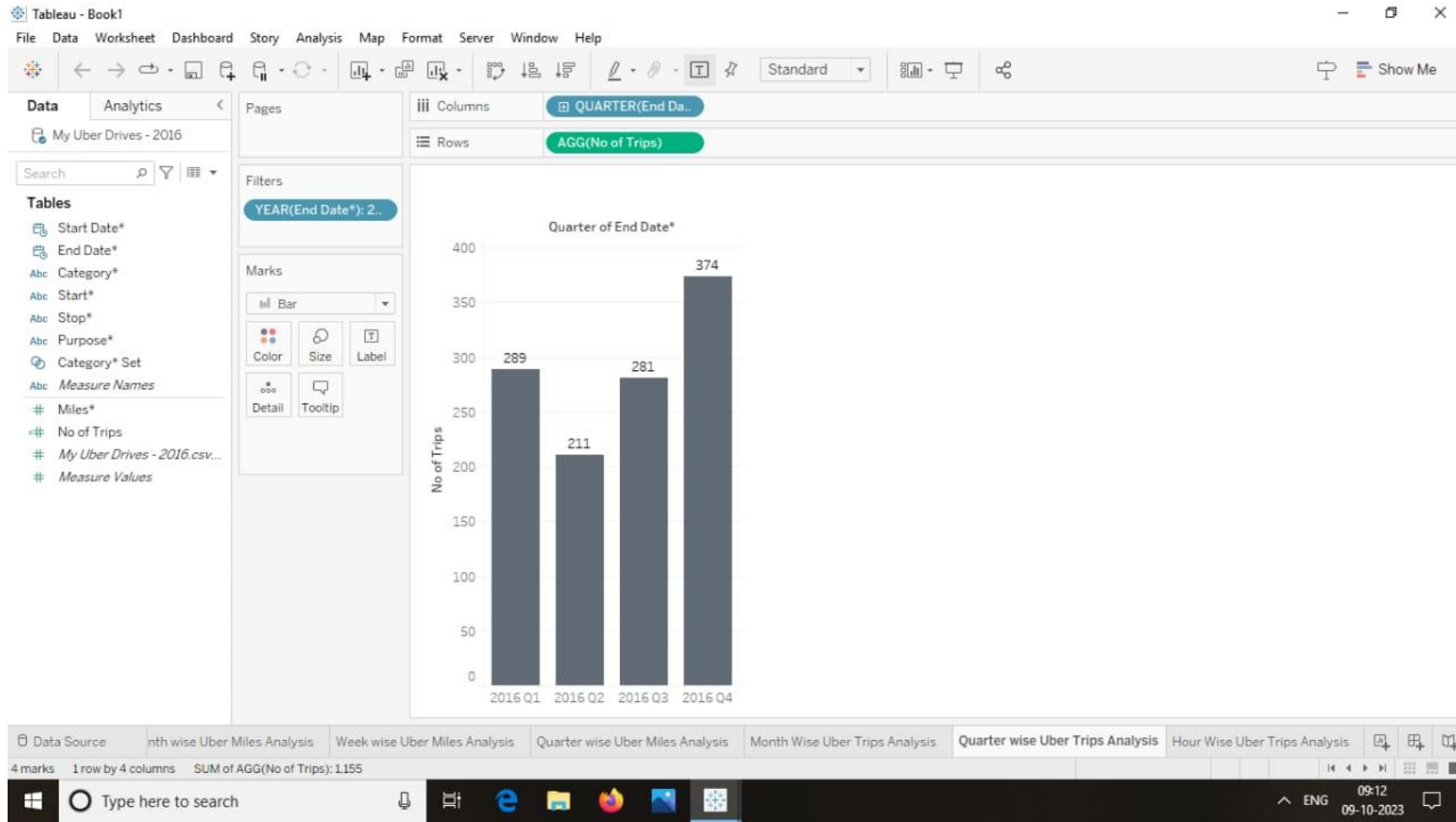
- 1.5 Quarter wise Uber Miles Analysis



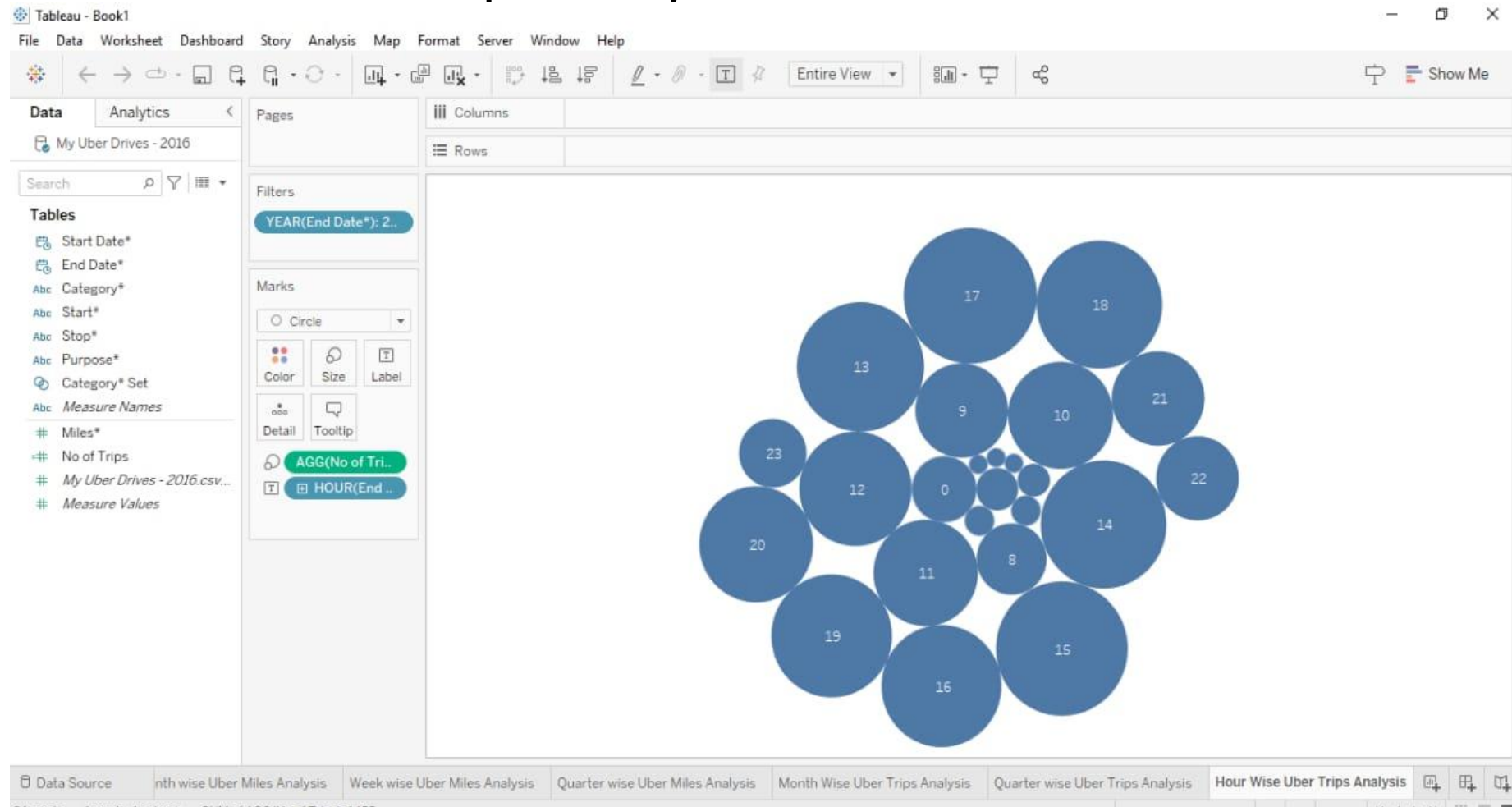
- 1.6 Month wise Uber Trips Analysis



- 1.7 Quarter wise Uber Trips Analysis

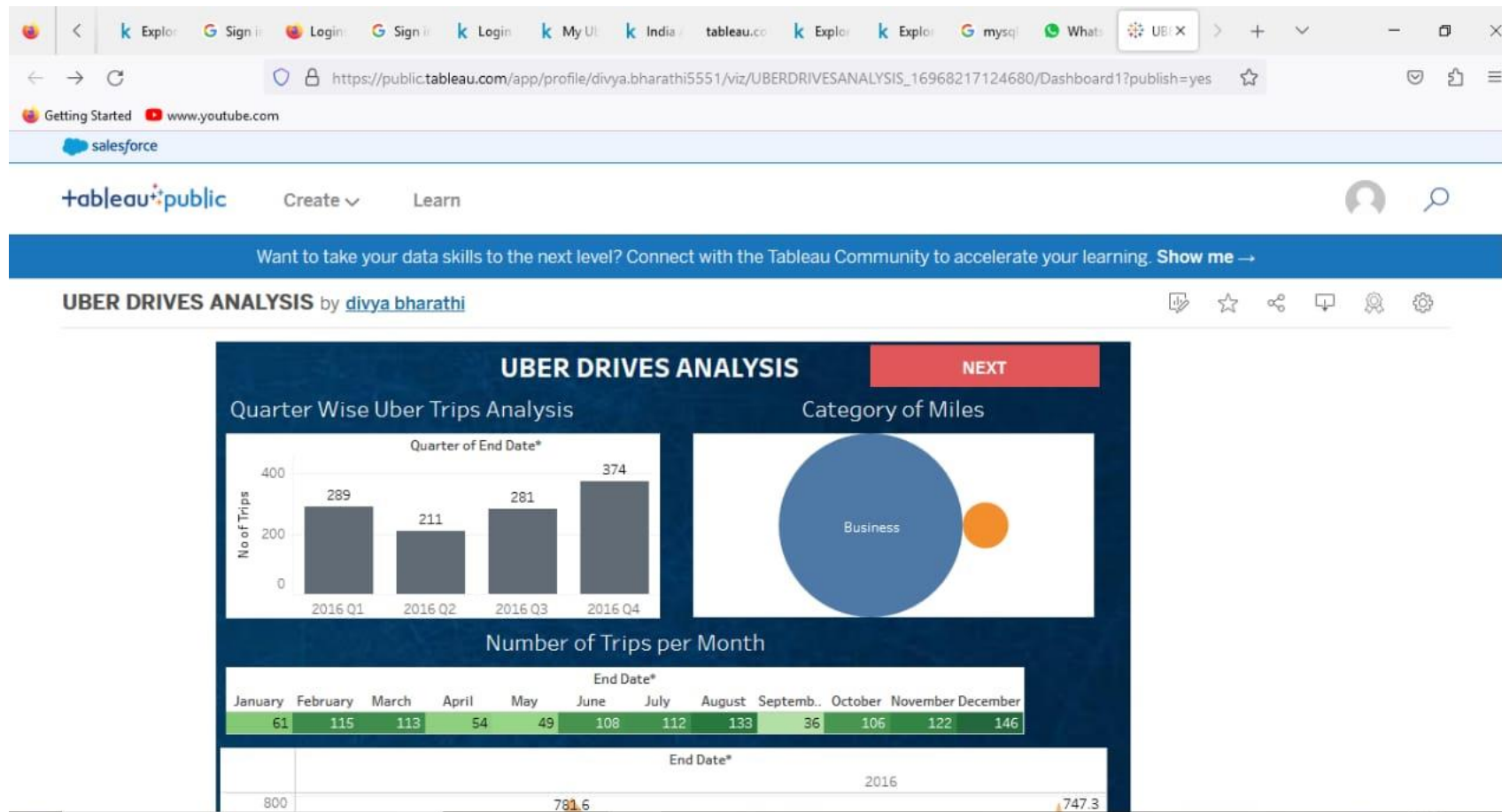


- 1.8 Hour wise Uber Trips Analysis



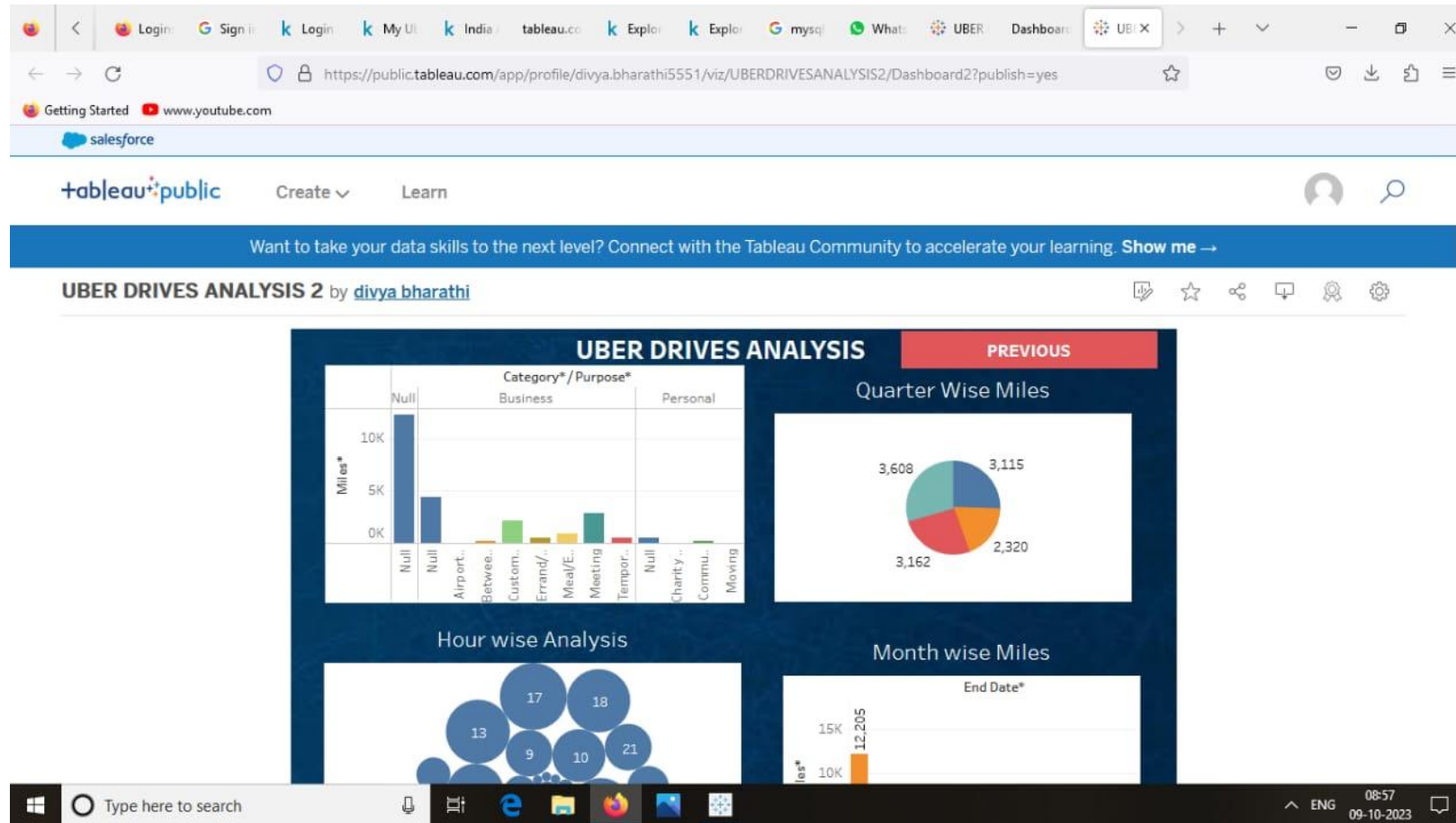
# Milestone 5: Dashboard 1

- Activity 1: Responsive and design Of dashboard





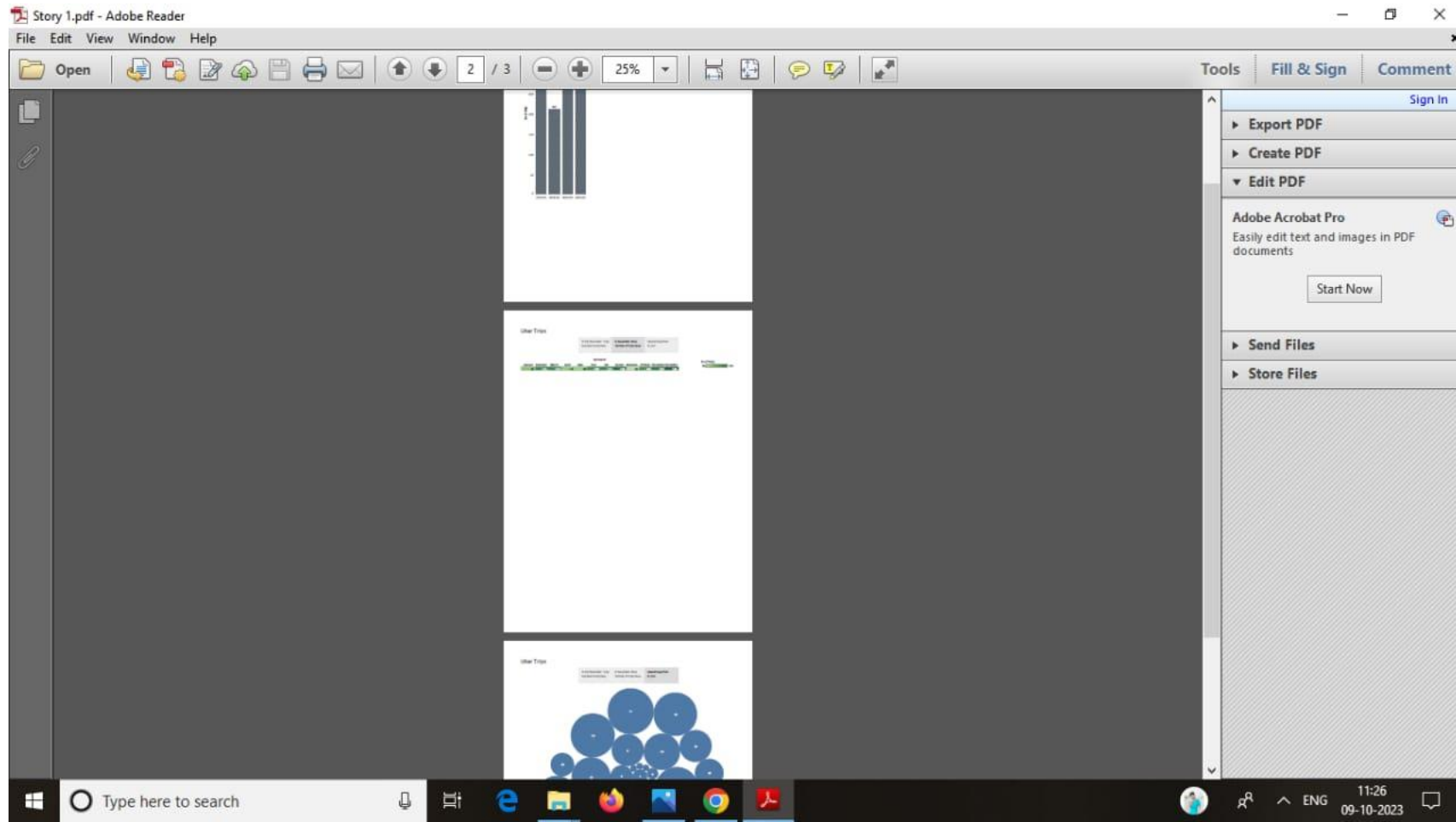
# Dashboard 2





# Milestone 6: story

- No of Scenes of story



# ADVANTAGES AND DISADVANTAGES

- 7.1 ADVANTAGE

1. Data-Driven insights: Uber can gather extensive data about travel patterns, routes, and customer behaviour, allowing for data-driven decision –making.
2. Route optimization: Analyzing past expeditions can help Uber optimize driver routes, reducing travel time and fuel consumption.
3. Demand forecasting: By studying historical expedition data, Uber can predict high –demand times and areas improving driver allocation.

- 7.2 DISADVANTAGES

1. Privacy concerns: Analyzing expedition data raises privacy concerns as it involves tracking the movements of both drivers and riders.
2. Data security: Storing and managing large amounts of sensitive location data requires robust security measures to prevent data breaches.
3. Bias in Data: The data collected may be biased towards urban areas and specific demographics, potentially leading to unequal service improvements.

# 8.Applications

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1. **Demand Forecasting**: Analyzing historical data to predict future demand patterns. This helps in optimizing driver allocation and ensuring efficient coverage in different areas.
2. **Route Optimization**: Identifying the most efficient routes for drivers to take, considering factors like traffic patterns, distance, and customer preferences.
3. **Price Optimization**: Analyzing data to determine optimal pricing strategies, considering factors like demand, supply, and time of day.
4. **Customer Behavior Analysis**: Understanding customer preferences, behavior, and trends. This can help in tailoring services and promotions to specific customer segments.
5. **Driver Performance Analysis**: Evaluating driver behavior, ratings, and efficiency to improve overall service quality.
6. **Market Expansion Strategies**: Using data to identify potential new markets and assess the feasibility of expanding into those areas.
7. **Safety and Security Measures**: Analyzing data to enhance safety measures for both drivers and passengers. This could include identifying high-risk areas or times.
8. **Fraud Detection and Prevention**: Using analytics to detect and prevent fraudulent activities, such as fake accounts or payment fraud.

# 9.Conclusion

- The Uber Expeditionary Analysis has unveiled a wealth of illuminating insights. It has shed light on crucial aspects of Uber's operations, from user behavior patterns to market dynamics. The analysis has emphasized the significance of data-driven decision-making and the potential for optimization in various operational facets. Additionally, it has underscored the importance of adaptability in a constantly evolving market landscape. Overall, this comprehensive examination has provided invaluable knowledge that can serve as a cornerstone for refining and enhancing Uber's strategies in the future.

# 10.FUTURE SCOPE

- Enhanced Data Analytics: Utilizing more advanced algorithms and machine learning techniques to extract deeper insights from the data collected during expeditions.
- Analysis: Developing models to predict user behavior, traffic patterns, and demand fluctuations based on historical data and real-time information.
- Intelligence: Integrating geographic information systems (GIS) and mapping technologies to enhance route optimization, safety, and overall user experience
- Customer Personalization: Tailoring services and recommendations based on individual user preferences, historical data, and behavior patterns.