Data Analysis Questions – UK Train Rides (Team C)

# 1. Ticket Sales and Revenue

1. What is the total revenue generated from each ticket type per month?
2. Which ticket type generates the highest revenue overall?
3. How do monthly sales vary for each ticket type across the year?
4. What are the average ticket prices for different routes or classes?
5. Which routes generate the highest revenue for the railway company?

# 2. Passenger Behavior and Demand

1. Which days of the week have the highest passenger volume?
2. What is the peak time of day for train usage?
3. Are there any seasonal trends in passenger demand?
4. Which stations are the most popular departure points?
5. What is the average number of passengers per ride across different routes?

# 3. Ride and Route Analysis

1. Which routes are used most frequently by passengers?
2. What is the average duration of train rides across different routes?
3. Are there any routes with significantly higher or lower passenger numbers?
4. What are the most and least utilized train services?
5. How does ride frequency vary by ticket class or passenger category?

# 4. Forecasting and Business Planning

1. What is the projected number of rides for the next month based on past data?
2. What is the expected revenue for the next month?
3. Which ticket classes are expected to experience the highest demand next month?
4. Are there specific days or routes that will likely see increased traffic in the future?

# 5. Operational Efficiency

1. What is the on-time performance rate of train rides (if available)?
2. Which stations have the highest average delays or cancellations?
3. How many rides are completed successfully versus cancelled or delayed?

# 6. Customer Segmentation and Preferences

1. Which ticket types are most preferred by regular vs occasional travelers?
2. How does customer preference differ between weekdays and weekends?
3. Are there any demographic trends in ticket purchasing behavior (if applicable)?

# 7. Comparative Insights

1. How does ticket sales performance differ across cities or regions?
2. What are the differences in revenue between economy and premium ticket classes?
3. Which stations have seen the greatest increase or decrease in usage over time?