Key Insights

1.Ticket Sales Analysis

• Online Sales:

o Transactions: **18,521**

o Revenue: £382,754

o Avg. Ticket Price: £20.67

Station Sales:

o Transactions: **13,132**

o Revenue: **£359,167**

o Avg. Ticket Price: £27.35

Insight: Online sales dominate in volume (58.5%) but generate lower revenue per ticket compared to station sales.

• Top-Selling Ticket Types:

Advance Standard: 10,494 tickets sold, Avg. Price: £18.06

o Anytime Standard: 3,075 tickets sold, Avg. Price: £43.07

Insight: Advance tickets are popular for budget travelers, while Anytime tickets generate higher revenue due to flexibility.

2. Delay & Refund Analysis

• Top Delay Reasons:

o Weather: Most frequent (758 delays, avg. 46.8 minutes).

Signal Failure: Longest delays (avg. 71.7 minutes).

Revenue Loss from Refunds:

o Total: **£146,017**

Technical Issues: Largest contributor (£132,227).

Refund Rates:

Cancelled Journeys: 30.43% (highest).

o Delayed Journeys: 23.82%.

Insight: Addressing technical issues and signal failures can reduce refund losses significantly.

3. Station Popularity

- Top Departure Station: Manchester Piccadilly (5,650 departures).
- Top Arrival Station: Birmingham New Street (7,742 arrivals).

Insight: Manchester Piccadilly and Birmingham New Street are the busiest stations, requiring focused capacity management.

4. Peak Times

- Ticket Purchases: Peak at 5 PM (2,740 purchases).
- Train Departures: Peak at 6 AM and 6 PM (3,113 journeys each).

Insight: Evening hours dominate ticket purchases, while both early and late hours are key for departures.

Key Metrics Summary

• Total Transactions: 31,653

• Total Revenue: £741,921

Refund Loss: £146,017

Recommendations

- 1. **Boost Online Revenue:** Offer discounts on Anytime or Off-Peak tickets for online purchases.
- 2. **Address Technical Delays:** Prioritize fixes for signal failures to reduce delays and refund losses.
- 3. Targeted Rail card Promotions: Focus on senior and disabled rail cards to increase sales.
- 4. **Peak-Time Optimization:** Use dynamic pricing for peak hours to maximize revenue.