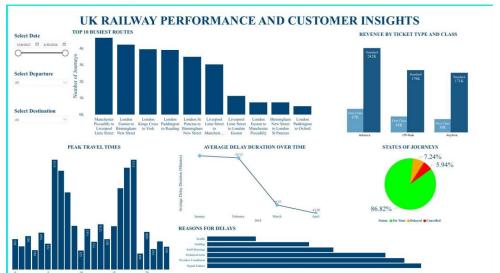
UK Railway Analysis







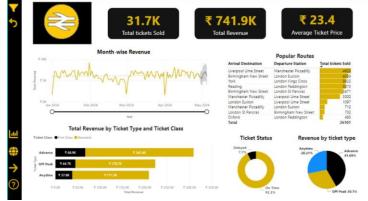




UK Train Analysis

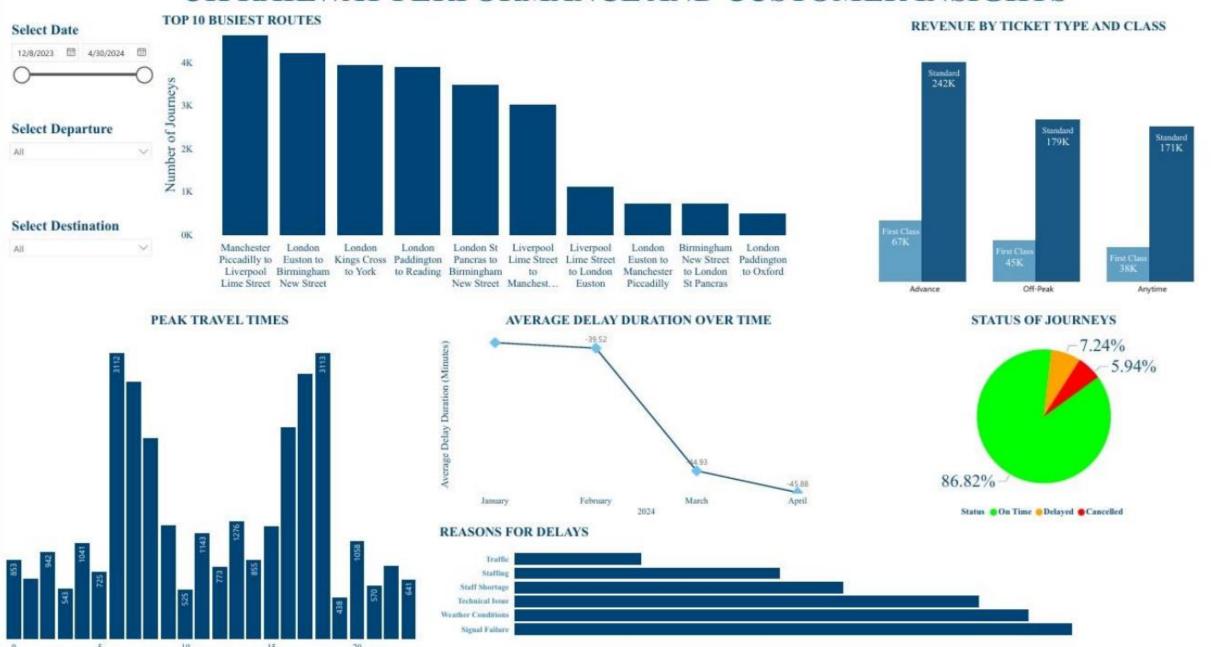
Power BI Data Analysis Project by

- 1. Paras Katariya
- 2. Simran Verma
- 3. Dolly Singh
- 4. Prerna
- 5. Latika Agrawal
- 6. Suraj Kumar



Author: Prince Kumar Sharma

UK RAILWAY PERFORMANCE AND CUSTOMER INSIGHTS





32K
Total Transcition ID





UK TRAIN ANALYSIS







Ticket Class

First Class

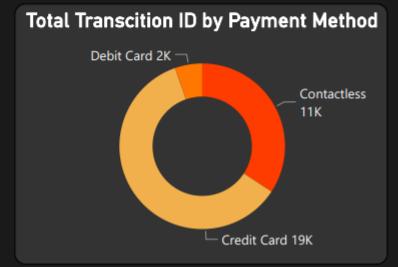
Purchase Type
Online

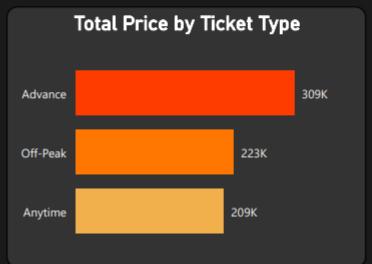
Payment Method

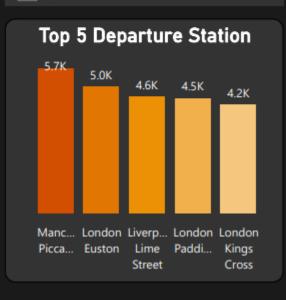
Contactless

742K Total Price

Purchase Type

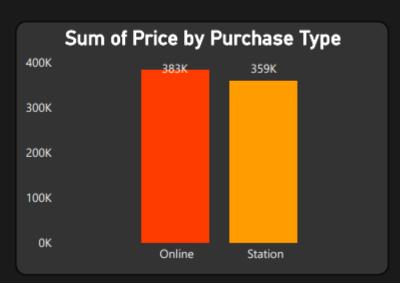






Total Payment Met...

23.44
Average price









Online Ticket

18.52K

Tickets Bought By Adult Online & Offline

First Class Standard Class

4356 490

Online Online

209 2004

Stations Stations

281 2352 **Total Ticket Type Analysis By Different Age Groups**

Tickets Bought By Disabled Online & Offline

Standard Class

2775 314

Online

1946

Station

Tickets Bought By Seniors Online & Offline

Standard Class First Class

269

2531

Online

2007

Station

Station

13.13K

Station

Passengers who Bought **But Not Travelling**

First Class

1985

18.93K

Standard Class

Online

Online

1128

10.7...

84

Station

First Class

Online

230

829

55

Online

214

Station

524

857

8150

Station







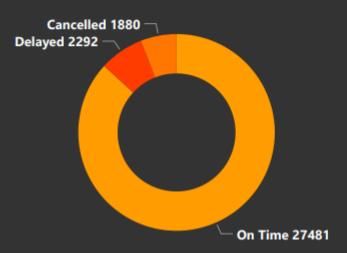


UK TRAIN ANALYSIS

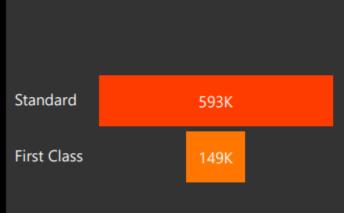








Total Price by Ticket Class

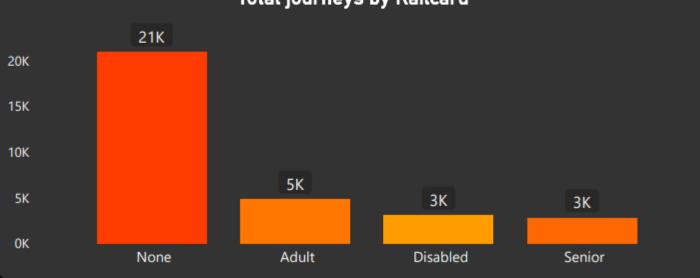




Total journeys by Month

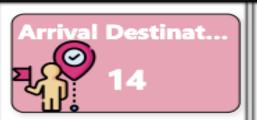


Total journeys by Railcard

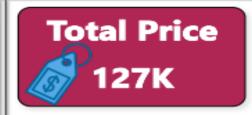


RAILWAY ANALYSIS DASHBOARD

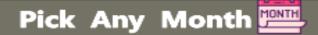




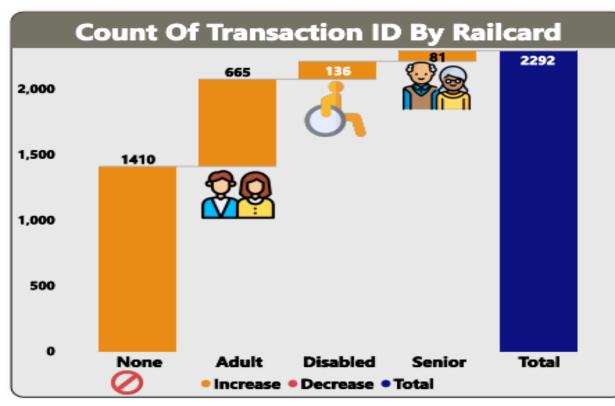


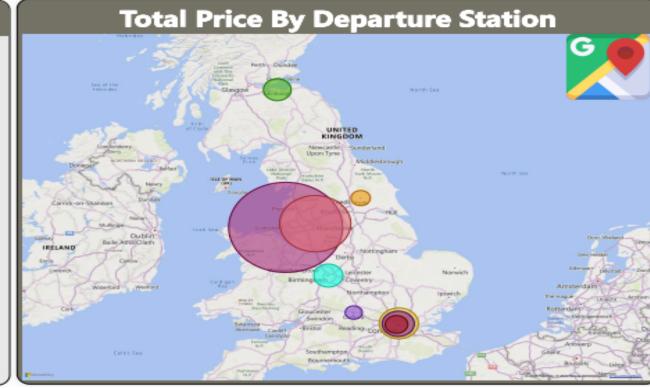


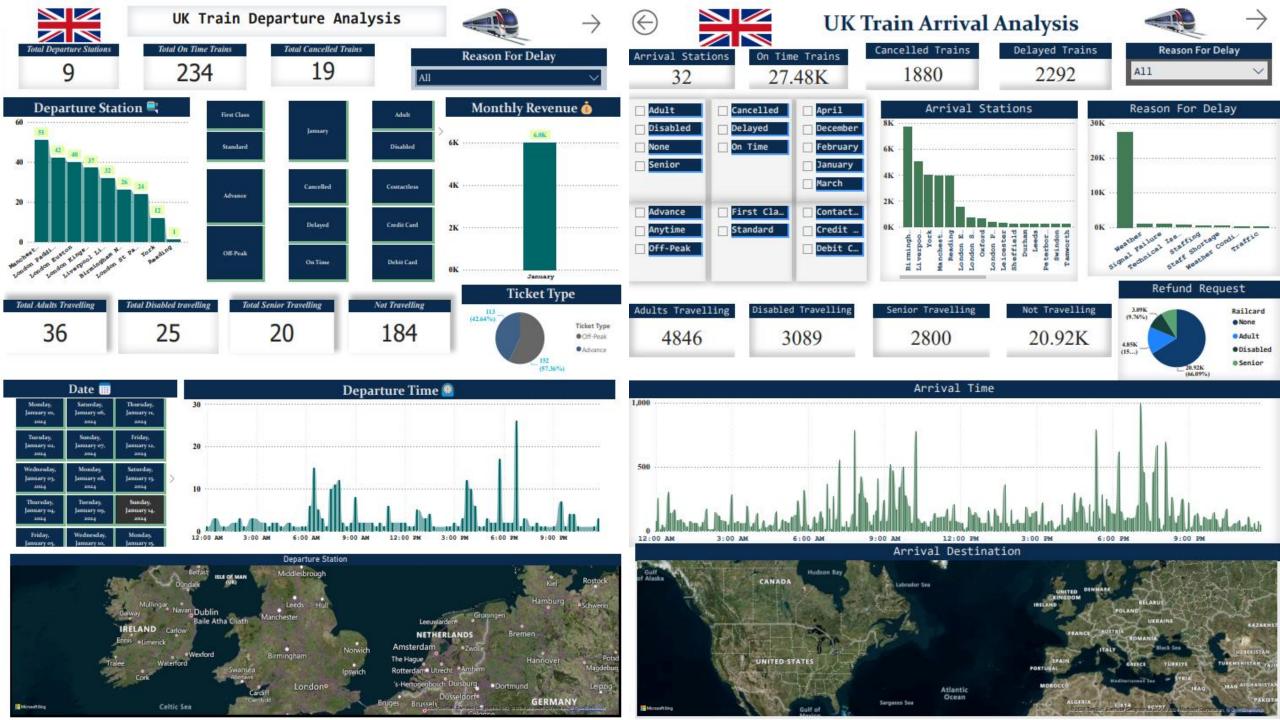
Avg Price 55.33



Jan Feb Mar Apr Dec







U.K RAILWAY ANALYSIS Railcard Analysis by railcategorry Count of Ticket Type by Ticket Type Count of Purchase Type by Purchase Type 17.6K Refund Request Purchase Type 2.8K (8.85%) ----, Earliest Arrival Time First Reason for Delay Online (9.76%) Yes Railcard Category @None Adult @Online Adult Disabled None Departure Station Count of Journey Status by Arrival Destination @ Disabled Station 4.85K 5268 10660 20719 Birmingham New Street 100% **Bristol Temple Meads** 18.52K Edinburgh Waverley 2093 2093 York 1397 112231 4204 135274 Liverpool Lime Street Reading 20.92K (66.09%) London Euston 20553 70750 2845 112045 Oxford London Kings Cross Advance Sheffield Ticket Type London Paddington 46040 Peterborough Sum of Price by Time of Purchase London St Pancras 6372 **62957** Manchester Piccadilly 5671 Swindon Oxford 253 9755 372 10127 Reading Nuneaton 0.22K 3524 14670 York 1268 84 19546 Stafford 0.19K Total 52278 573697 29616 741921 Wolverhampton 0.12K Wakefield 0.02K 0.02K Warrington 0.4% Sum of Price by Railcard Count of Arrival Destination by Actual Arrival Time 52K (7.05%) (3.89%) 3:00 AM 6:00 AM 9:00 AM 12:00 PM 3:00 PM 6:00 PM Time of Purchase 86K (11.64%) Sum of Price by Arrival Destination Railcard Sum of Price by Departure Station None Adult Disabled Senior - 574K (77.33%) 11:10 PM 10:50 PM 11:00 PM 11:20 PM Actual Arrival Time Payment Method X Ticket Class Purchase Type Refund Request X ∏icket Type Credit Card Online Arrival Destination Sum of Price by Journey Status and Railcard Credit Card 10379 10133 17291 0.43M Railcard Standard Contactless Station Adult Advance 28595 9798 Count of Railcard @ Disabled 0.2M 31653 @ None First Ticket Type Count of Arrival Destination First Class Debit Card 3058 1506

Station





Revenue and Mode Of Payment Analysis



Total Revenue 19 742K

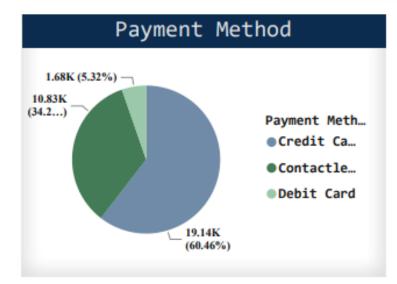
Online Revenue

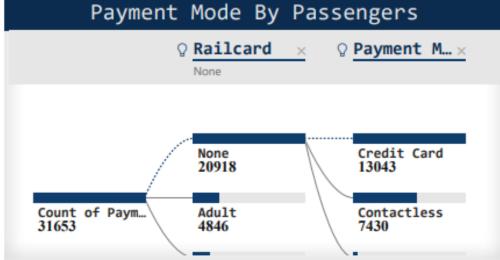
383K

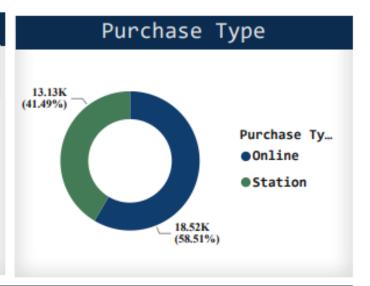
Offline Revenue

359K

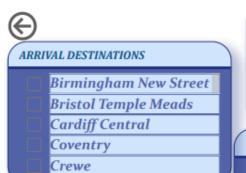
Contactless Credit Card Debit Card











Sum of Price by Railcard

● None ● Adult ● Disabled

86K





TOTAL PRICE

742K

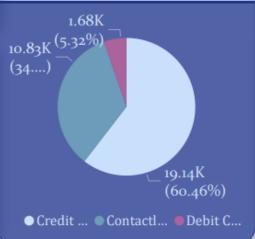


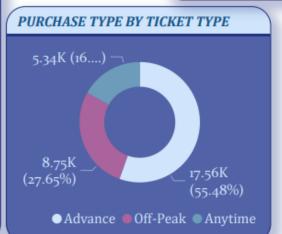
Birmingham New Street Bristol Temple Meads Edinburgh Waverley

February

January

TICKET CLASS BY PAYMENT METHOD

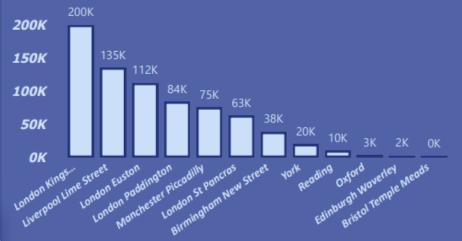




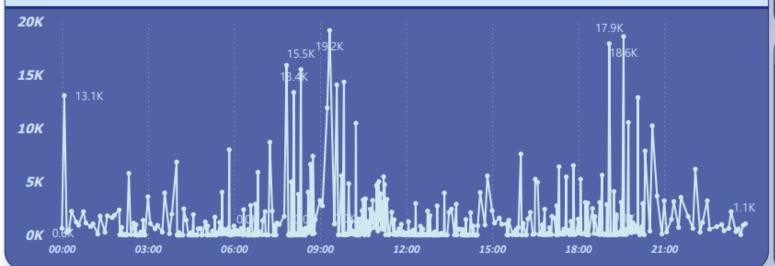


London Euston

Liverpool Lime Street

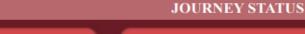










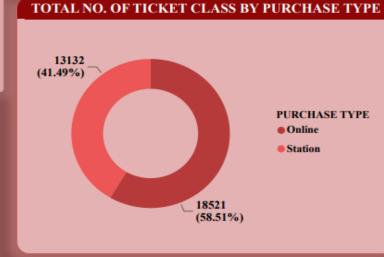


Cancelled Delayed

On Time

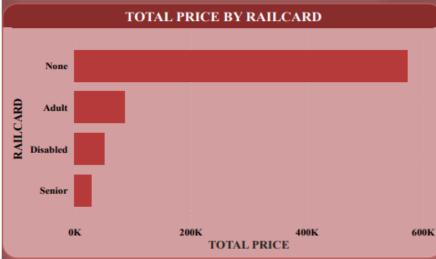


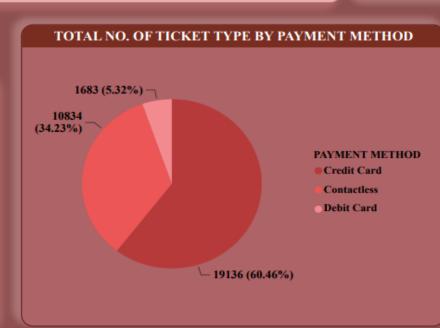
TOTAL NO. OF JOURNEY













TOTAL SALE PRICE

742K

UK RAIL TICKET SALE ANALYZATION

STATION TICKET SALE ******

13.13K

Select all

Birmingham New Street

Bristol Temple Meads

ARRIVAL STATION

Cardiff Central

Coventry

Crewe

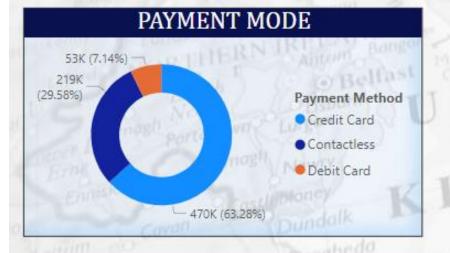
Didcot

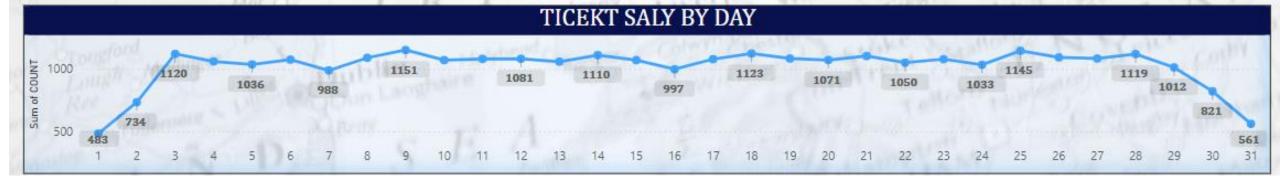
TOTAL TICKET SALE 31.65K

ONLINE TICKET SALE 18.52K

> Ticket Type Ticket Type Advance Off-Peak Anytime 17.56K (27.65%) (55.48%)







Rail Insight: Exploring UK Train Journey Data

Journey Status Cancelled Delayed On Time

Anytime	Off-Peak
	Anytime

Geparture Station

Birmingham **New Street**

Bristol Temple Meads

Edinburgh Waverley

Liverpool Lime Street London Euston

London Kings Cross

London St Paddington **Pancras**

Manchester Piccadilly

Oxford

Arrival Bestination

Birmingham New Street

Bristol Temple Meads

Cardiff Central

Coventry

Crewe

Didcat

Top Arrival Stations:

- Birmingham New Street: Birmingham New Street stands out as the most popular arrival destination, with 7,742 passengers. This indicates a high influx of passengers into Birmingham, highlighting the city's importance as a business and transportation
- Liverpool Lime Street: As a top arrival destination with 5,022 passengers, Liverpool Lime Street reaffirms its significance as a key transport node, attracting travelers from various regions.
- York: York emerges as a notable arrival destination with 4,019 passengers. Known for its historic landmarks and cultural attractions. York attracts both tourists and commuters, contributing to its popularity as an arrival destination.

Top Departure Stations:

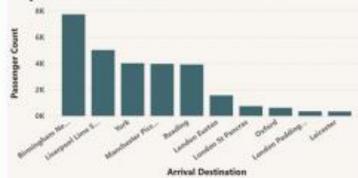
London

- Manchester Piccadilly: With 5,650 passengers, Manchester Piccadilly emerges as the busiest departure station. This suggests a high demand for railway services in Manchester and surrounding areas, potentially driven by both local commuters and longdistance travelers.
- London Euston: London Euston follows closely with 4,954 passengers, indicating a significant volume of passengers traveling from the capital city. As a major transport hub, London Euston serves as a gateway to various destinations across the country.
- · Liverpool Lime Street: Liverpool Lime Street, with 4,561 passengers, is another prominent departure station. This suggests considerable travel demand in the Liverpool area, possibly influenced by both local commuters and leisure travelers.

Distribution of Departure Times:

- Early Morning (Midnight 6 AM): The number of journeys is relatively low during these hours, with the lowest number of journeys occurring around 3 AM.
- Morning Peak (6 AM 9 AM): The number of journeys starts to increase significantly from 6 AM, reaching its peak during the morning rush hour between 7 AM and 8 AM. This is consistent with typical commuting patterns, as many people travel to work or school during these hours.
- Late Morning to Early Afternoon (9 AM 12 PM): The number of journeys remains relatively high during these hours but starts to decline compared to the morning peak.
- Afternoon (12 PM 6 PM): The number of journeys fluctuates during the afternoon hours, with some peaks around lunchtime (12 PM - 1 PM) and late afternoon (4 PM -6 PM). However, the number of journeys is generally lower compared to the morning peak.
- Evening (6 PM Midnight): The number of journeys increases again during the evening hours, with a peak occurring around 6 PM - 7 PM. This could be attributed to people returning home from work or traveling for leisure activities in the evening.

Top Arrival Stations







Frequency of refund requests

Frequency of different payment

Ton 40 Most Popular Poutos