UK TRAIN RIDES

Analysis – SQL CASE STUDY



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INTRODUCTION

Mock train ticket data for National Rail in the UK, from Jan to Apr 2024, including details on the type of ticket, the date & time for each journey, the departure & arrival stations, the ticket price, and more.

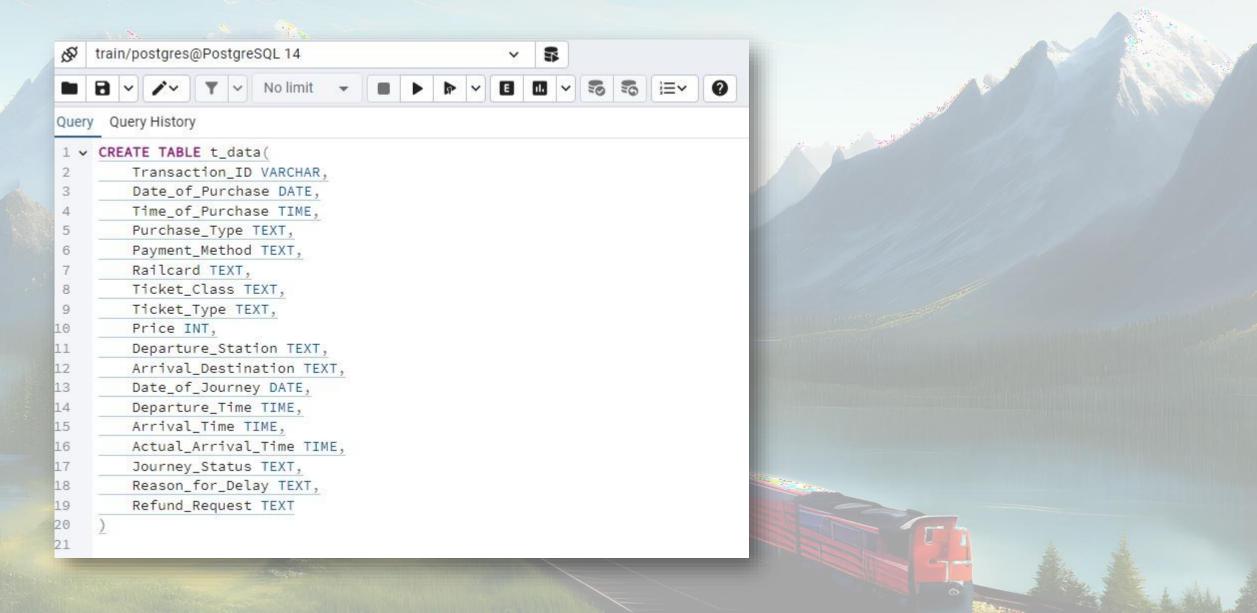
OBJECTIVES

- 1. What are the most popular routes?
- 2. What are the peak travel times?
- 3. How does revenue vary by ticket types and classes?
- 4. What is the on-time performance?
- 5. What are the main contributing factors?

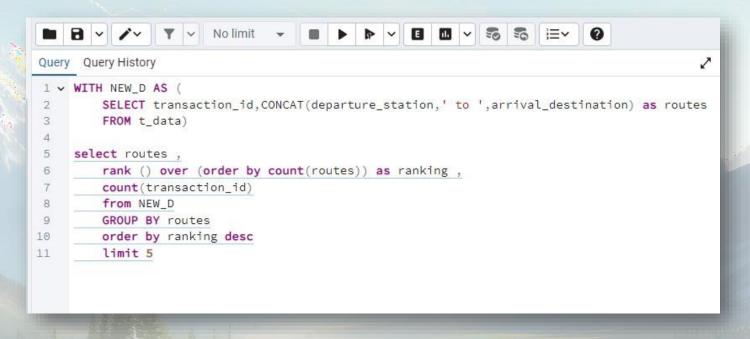


- Transaction ID
- Date of Purchase
- Time of Purchase
- Purchase Type
- Payment Method
- Railcard
- Ticket Class
- Ticket Type
- Price
- Departure Station
- Arrival Destination
- Date of Journey
- Departure Time
- Arrival Time
- Actual Arrival Time
- Journey Status
- Reason for Delay
- Refund Request

CREATE TABLE IN SQL DATABASE

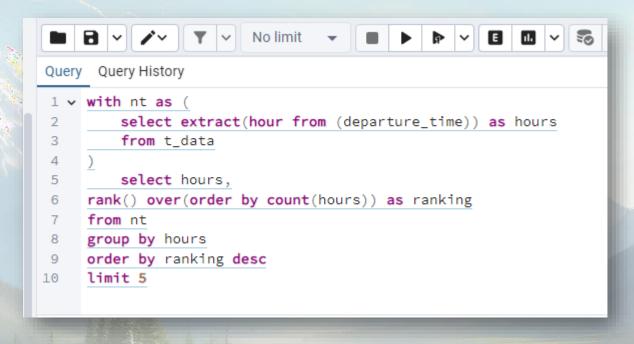


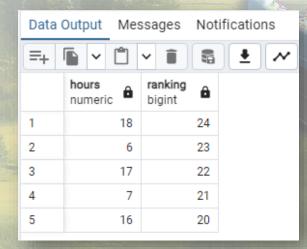
Q1 What are the most popular routes?



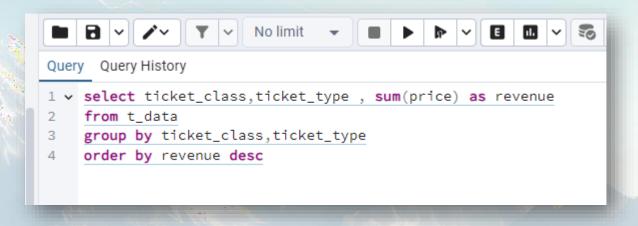
Data	Output Messages Notifications			
=+ 6 v 1 v 1 3 4 7 50 L				
	routes text	ranking bigint	count bigint	
1	Manchester Piccadilly to Liverpool Lime Street	65	4628	
2	London Euston to Birmingham New Street	64	4209	
3	London Kings Cross to York	63	3922	
4	London Paddington to Reading	62	3873	
5	London St Pancras to Birmingham New Street	61	3471	

Q2 What are the peak travel times?



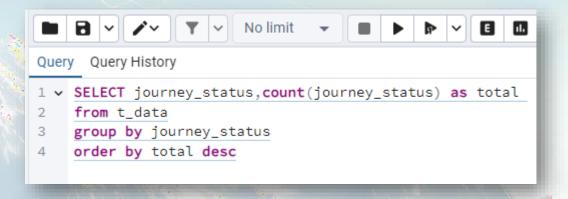


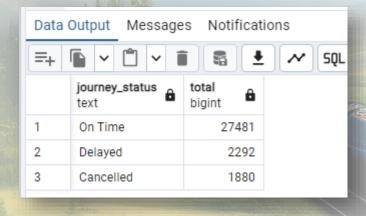
Q3 How does revenue vary by ticket type and class?



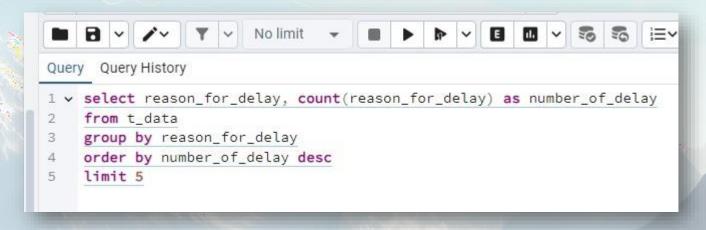
Data Output Messages Notifications						
= +	~ ° v		✓ SQL			
	ticket_class text	ticket_type text	revenue bigint			
1	Standard	Advance	242388			
2	Standard	Off-Peak	178666			
3	Standard	Anytime	171468			
4	First Class	Advance	66886			
5	First Class	Off-Peak	44672			
6	First Class	Anytime	37841			

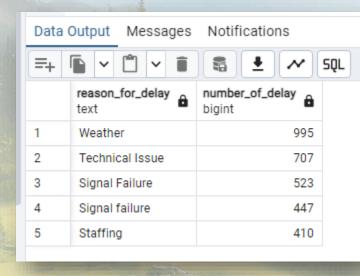
Q4 What is the on time performance?



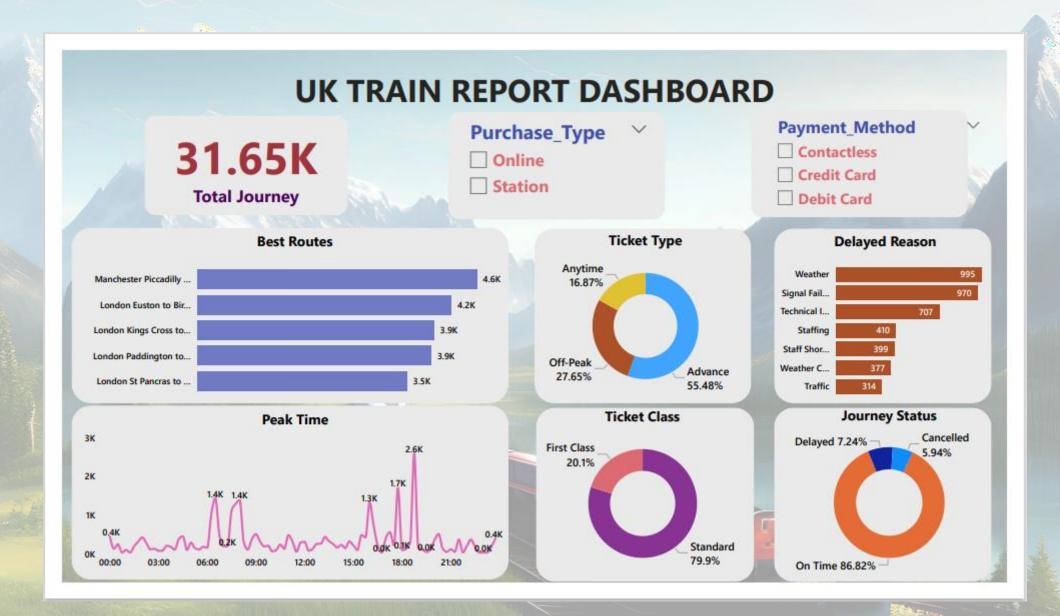


Q5 What are the main contributing factors?





Dashboard



Insights

- Most popular route used by people is "Manchester Piccadilly to Liverpool Lime Street"
- Peak travel time in UK is between "6 am to 8 am" and "4 pm to 7 pm"
- Most revenue generated from "Standard class"
- On time performance of UK trains is 86%
- Maximum delayed reason is bad weather condition

