

UK Train Rides Project Plan

Phase 1: Prepare & Clean Data

- **Data Person:** Find and download train data files (e.g., from government websites).
 - **Data Person:** Clean up the data - fix errors, standardize names, handle missing info.
 - **BI Developer:** Set up the cleaned data in Power BI with proper links between tables.
 - **Milestone 1:** Clean, ready-to-use dataset in Power BI.
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Phase 2: Plan the Analysis

- **Analyst:** Decide what questions to answer (e.g., "Which train company is most punctual?", "What are the worst routes for delays?").
 - **Analyst:** Create simple charts to spot initial trends.
 - **Specialist & BI Developer:** Sketch a mock-up of what the final dashboard should look like.
 - **Milestone 2:** Agreed-upon list of questions and a dashboard sketch.
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Phase 3: Build the Dashboard

- **BI Developer:** Build the main charts and graphs in Power BI.
 - **BI Developer:** Add filters and interactive elements (e.g., click on a company to see its routes).
 - **Team Test:** Everyone checks the dashboard for errors and ease of use.
 - **Milestone 3:** Finished, interactive Power BI dashboard.
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Phase 4: Report & Present

- **Analyst & Report Specialist:** Write a short report summarizing key findings (e.g., "Company X has the most cancellations").
 - **Report Specialist:** Create a presentation slide deck for stakeholders.
 - **Team:** Practice the final presentation together.
 - **Final Milestone:** Project completed. Report and presentation delivered.
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Attached: Task breakdown and Responsibility matrix.

Team 3 Responsibility Matrix

● Lead
○ Support

Phase	Task	Tarek	Mohamed	Mora	Mariam	Alaa
Data Foundation	Document and understand the structure of provided train data	●	○	○	○	○
	Assess data quality and identify any gaps or inconsistencies	○	○	○	●	○
	Design optimal data model structure for analysis	○	○	●	○	○
	Clean and transform the provided data for analysis	○	●	○	○	○
	Create calculated columns and measures needed for KPIs	○	○	○	○	●
	Build and validate the data model in Power BI	●	○	○	○	○
Analysis Planning	Define core KPIs (punctuality, delays, cancellations, journey times)	○	○	●	○	○
	Conduct exploratory analysis to uncover initial insights	○	○	○	●	○
	Finalize the key business questions the dashboard will answer	○	○	○	○	●
	Create wireframes for dashboard layout and user flow	○	●	○	○	○
Dashboard Development	Develop all planned visualizations and charts	○	○	○	●	○
	Implement filters, slicers, and cross-filtering functionality	○	●	○	○	○
	Apply consistent styling and optimize user experience	○	○	○	○	●
	Conduct user testing and refine based on feedback	○	○	○	●	○
Insights & Delivery	Analyze dashboard outputs to identify key trends and insights	○	○	●	○	○
	Create comprehensive report with findings and recommendations	●	○	○	○	○
	Develop stakeholder presentation highlighting key discoveries	○	○	●	○	○
	Prepare all project assets for final delivery	●	○	○	○	○
	Final presentation rehearsal and preparation	●	●	●	●	●