

Spanish rail tickets sales

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Project goals

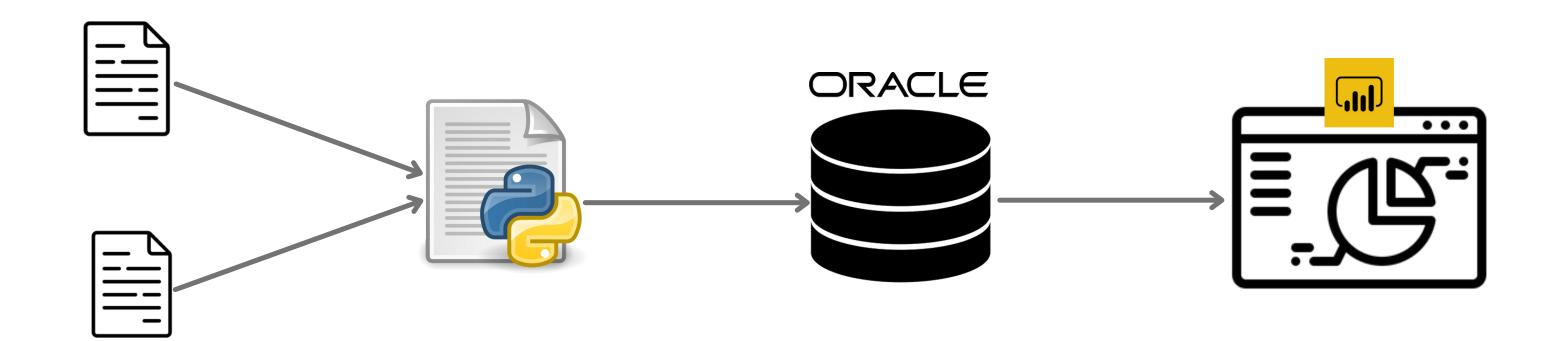
Using ticket sales data analyze:

- Sales: How are sales and revenue generated?
- Network: When, where and what kind of trains are offered?
- Pricing: What drives up and down the prices of the tickets?

Project phases



Workflow



Data sources

Spanish Rail Tickets Pricing - Renfe dataset source: <u>kaggle</u> - The Gurus

Web scrapped rail ticket sales data with price

Dataset information

- 38.8 million rows
- 14 columns

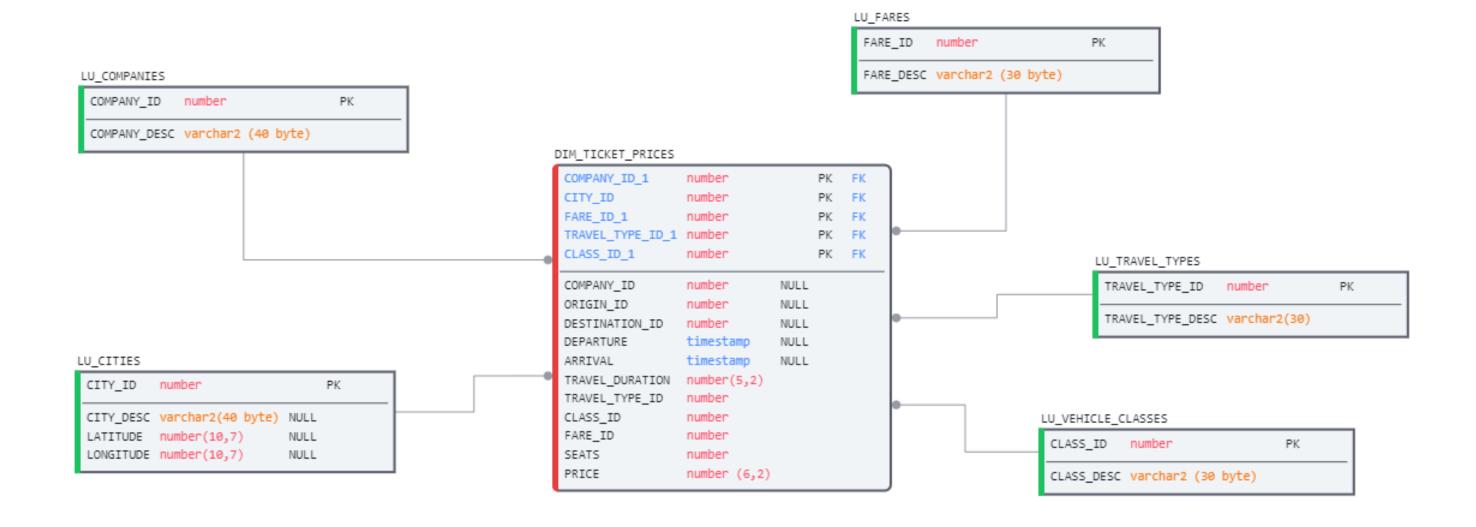
Spanish cities coordinates

Latitude and longitude data for every city in Spain

Dataset information

- 7893 rows
- 3 columns

Data model



Database creation

Oracle Database:

- Database installation
- Schema creation
- Table creation DDL script

Data preparation

Python script with four main functionalities:

- Load files
- Clean and unify data
- Structure data to generate the data model
- Load data into the database

Dashboard creation

Power BI Dashboard

- Load tables from database
- Establish data model relations
- Create columns, measures
- Create visualizations