

SQL Data Warehouse and Analytics Project

Overview:

A complete data warehousing and analytics solution following the Medallion Architecture (Bronze, Silver, Gold). This project demonstrates end-to-end ETL, data modeling, and analytics workflows.

Approach:

- Designed Medallion Architecture: Raw → Cleaned → Analytical layers.
- Developed ETL pipelines in SQL for data ingestion and transformation.
- Built fact and dimension tables for analytical reporting.
- Created SQL-based KPIs and insights for decision support.

Tools Used:

SQL Server, ETL Scripts, Data Modeling, Data Architecture Design

Results:

- Streamlined data integration from multiple systems.
- Optimized queries for analytics and reporting.
- Improved performance through a star schema data model.

GitHub Link: <https://github.com/Kahaf-Khalidi/SQL-Data-Warehouse-Project>

India General Election 2024 Analysis

Overview:

An end-to-end Power BI + SQL project analyzing the 2024 Indian General Elections using five relational datasets. The project models and visualizes alliance, party, and constituency-level performance.

Approach:

- Combined five datasets into a unified model using SQL joins.
- Built Power BI dashboards for national, state, and constituency-level insights.
- Created KPIs such as turnout, seat share, and alliance dominance.

Tools Used:

SQL, Power BI, Data Modeling, DAX, Visualization

Results:

- Delivered an interactive national dashboard with drill-through by state.
- Provided analytical insights into alliance and vote margin trends.

GitHub Link: <https://github.com/Kahaf-Khalidi/India-General-Election-Result-Analysis-2024>

Spotify Analysis

Overview:

Analyzed Spotify music trends with Power BI, covering 7,000+ albums, 3,800+ artists, and 12,000+ tracks. Explores listening patterns, top artists, and engagement insights.

Approach:

- Data Cleaning and Integration.
- Built measures for engagement and yearly growth.
- Designed visual dashboards with heatmaps and rankings.

Tools Used:

Power BI, DAX, Data Modeling, Excel

Results:

- Identified top artists and tracks across time.
- Discovered listening time peaks between late evenings and midnight.

GitHub Link: <https://github.com/Kahaf-Khalidi/Spotify-Analysis>

Blinkit Sales Analysis

Overview:

Analyzed Blinkit sales data using Python to derive insights on outlet performance, customer ratings, and sales

Approach:

- Performed EDA using Pandas and Matplotlib.
- Calculated KPIs for total and average sales, outlet size, and location performance.
- Visualized sales trends by outlet and product category.

Tools Used:

Python, Pandas, Matplotlib, Seaborn, Jupyter Notebook

Results:

- Identified top-performing outlets and key product categories.
- Developed data-driven recommendations for business optimization.

GitHub Link: <https://github.com/Kahaf-Khaldi/Blinkit-Analysis>

Web Scraping Project – MLK Speech

Overview:

Scraped Martin Luther King Jr.'s "I Have a Dream" speech text for natural language analysis.

Approach:

- Used Requests and BeautifulSoup to extract speech content.
- Cleaned HTML text using Regular Expressions.
- Prepared text data for NLP and sentiment analysis.

Tools Used:

Python, Requests, BeautifulSoup, Regex, Jupyter Notebook

Results:

- Generated clean text dataset ready for further NLP applications.

GitHub Link: https://github.com/Kahaf-Khalidi/Web-Scraping-project-MLK_Speech

UFood Data Analyst Case Study (Python)

Overview:

Analyzed UFood delivery data to understand customer behavior and campaign effectiveness.

Approach:

- Performed EDA and segmentation using Python.
- Analyzed relationships between demographics, purchase behavior, and campaign responses.
- Derived actionable marketing recommendations.

Tools Used:

Python, Pandas, Matplotlib, Seaborn

Results:

- Identified key customer clusters.
- Suggested strategies to improve engagement and retention.

GitHub Link: <https://github.com/Kahaf-Khaldi/U-Food-Data-Analyst-Case-Study>

HR Employee Attrition Analysis

Overview:

SQL project analyzing IBM HR attrition data to identify reasons behind employee turnover.

Approach:

- Created and structured database in MySQL.
- Performed EDA using SQL queries for salary, job role, and department trends.
- Identified patterns leading to high attrition.

Tools Used:

MySQL, SQL Queries, Data Analysis

Results:

- Found correlation between income, role type, and attrition risk.
- Proposed retention strategies based on findings.

GitHub Link: <https://github.com/Kahaf-Khaldi/HR-Employee-Attrition-Analysis>

Coffee Shop Sales — MySQL

Overview:

Analyzed a coffee shop's transactional sales data using MySQL to uncover business trends.

Approach:

- Built KPI queries for sales, orders, and quantities.
- Compared sales across time periods and outlets.
- Used SQL window functions for trend analysis.

Tools Used:

MySQL, SQL Analytics, Query Optimization

Results:

- Identified top-selling products and peak business hours.
- Delivered insights to improve operations and inventory planning.

GitHub Link: <https://github.com/Kahaf-Khaldi/Coffee-shop-sales-mysql>