

Tableau & Power BI Dashboard

Bar Chart: Percentage Change

UK Map: Key City Locations Impacted

Chart: Sum of Percentage Change by Industry Over Cities in the UK

Spotify Data Analysis Key Trends and Insights from Spotify Dataset Analyse trends in the Spotify dataset to inform future projects.

Health Data Analysis Analyse health data to support NHS decision-making.

Reflection for NHS:

- Use data to improve life expectancy and reduce mortality rates.
- Promote healthier lifestyles to combat cardiovascular diseases and cancer.
- Improve healthcare pathways to enhance efficiency and reduce emergency care demand.

Promote healthier lifestyles through targeted public health campaigns.

Power BI Labs: Learn and apply Power BI functionalities through hands-on labs.

Lab 1: Get Data in Power BI Desktop

Lab 2: Load Transformed Data in Power BI Desktop

Power BI Report & Dashboard

Lab 6: Design a Report in Power BI Desktop

Lab 9: Create a Power BI Dashboard.

Tableau & Power BI Dashboard: Objective: Design a report and create a dashboard in Power BI Desktop.

Objective: Create a dashboard using the EMSI_JobChange_UK dataset.

Visualizations:

1. Bar Chart: Percentage Change

- Displays the percentage change in job roles across industries.
- Helps identify growing or declining sectors.

2. UK Map: Key City Locations Impacted

- Highlights cities with significant changes in job roles.
- Provides geographical insights into regional impacts.

3. Chart: Sum of Percentage Change by Industry Over Cities

- Aggregates percentage changes across industries for each city.
- Identifies cities with the most dynamic job markets.

Dashboard Screenshot:

Summary

1. Tableau & Power BI Dashboards:

- Effective tools for visualizing complex datasets and deriving actionable insights.

2. Spotify Data Analysis:

- Revealed trends in music preferences, helping organizations enhance user experience.

3. Health Data Analysis:

- Provided valuable insights for NHS decision-making, focusing on resource allocation and preventive care.

4. Power BI Labs:

- Hands-on experience with importing, transforming, and visualizing data in Power BI.

This document demonstrates the application of data visualization tools (Tableau and Power BI) to analyse diverse datasets and derive actionable insights. Key takeaways include:

1. **Job Market Trends:** Understanding regional and industry-specific impacts on job changes.
2. **Music Industry Insights:** Identifying popular genres and correlating features like duration and danceability with popularity.
3. **Healthcare Analytics:** Leveraging data to inform decision-making in the NHS, focusing on life expectancy, disease prevalence, and lifestyle improvements.
4. **Power BI Skills:** Mastery of data import, transformation, reporting, and dashboard creation for business intelligence.