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Exercise No: Lab Assignment-9

Dashboards in Tableau

Dashboards in Tableau are integrated collections of multiple visualizations that work together to provide a holistic view of data. Instead of analyzing charts in isolation, dashboards allow users to interact with different elements simultaneously, enabling them to identify patterns, compare results, and extract meaningful insights more effectively.

They combine various components such as charts, maps, tables, and KPIs into a single interface, making it possible to convey complex information in a simplified and visually appealing way. Dashboards are not just static reports — they can be enhanced with actions (such as filters, highlights, and drilldowns) to make them dynamic and interactive, allowing the user to explore different perspectives of the dataset with a single click. Similarly, dashboards may also be constructed using a variety of objects (charts, tables, text boxes, images, and summary cards), which together provide a well-rounded analytical story.

In this lab, two dashboards were developed using the Eurovision Song Contest dataset (1998–2012). The first dashboard focuses on actions, showcasing interactivity through filters and cross-highlighting across multiple visualizations. The second dashboard focuses on objects, presenting a combination of a data table, KPI card, and a chart to highlight yearly winners and the distribution of points. These dashboards collectively provide a comprehensive view of Eurovision performance trends, yearly champions, and geographical distribution of points, demonstrating how Tableau can be used both for interactive exploration and structured presentation of results.

Eurovision Song Contest dataset (1998–2012)

About Dataset:

The dataset contains information about the **Eurovision Song Contest** from **1998 to 2012**, covering multiple countries, their entries, and performances. It enables comparative analysis of yearly results, winners, and regional performance trends.

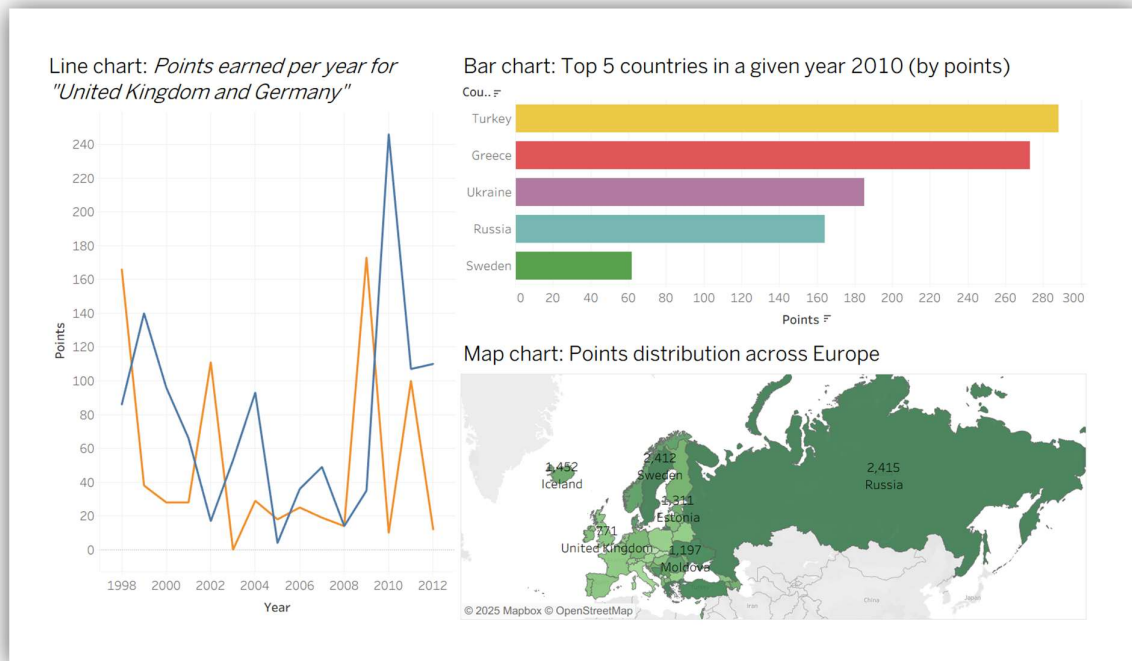
Dataset Structure

<u>Attribute</u>	<u>Description</u>	<u>Type</u>
Year	The year of the contest in which a country participated	Date
Country	Name of the participating country in that year's contest	Categorical
Artist / Performer	The name of the artist or group representing the country	Text/String
Song Title	The title of the song performed	Text/String
Points	Total points scored by the country in that year	Numerical
Place	The final ranking position of the country in the contest	Numerical
Semi-final / Final	Indicates whether the performance was in semi-final or final round	Categorical

Dashboard 1: Dashboard with Actions

This dashboard demonstrates three interactive actions:

1. Line Chart: Points earned per year for a selected country
 - Action: Country filter (user can select any country to track its performance trend).
2. Bar Chart: Top 5 countries in a selected year
 - Action: Year filter (user can switch years to view yearly top 5).
3. Map Chart: Points distribution across Europe
 - Action: Year filter + cross-filter (clicking on a country highlights its performance across charts).



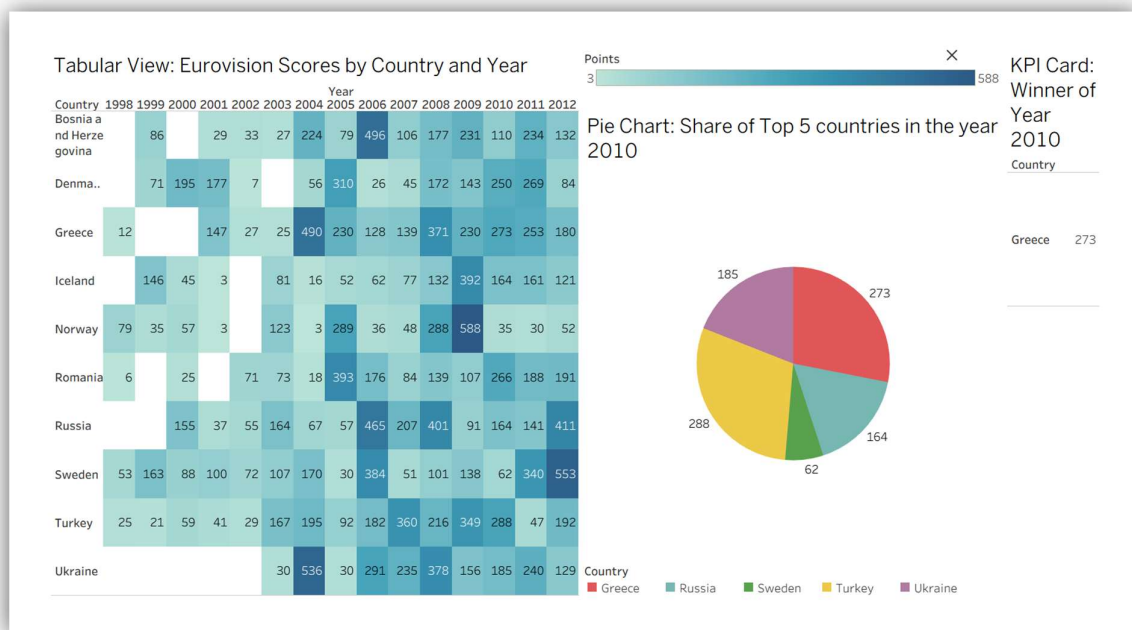
Insights:

- Some countries show consistent growth, while others have irregular performance.
- The bar chart highlights which nations dominated each year.
- The map reveals geographical dominance, showing how Western and Eastern Europe performed across time.

Dashboard 2: Dashboard with Objects

This dashboard highlights three different objects in Tableau:

1. Table: Yearly Points Earned by Each Country (1998–2012)
 - Provides a detailed tabular view of points scored per country each year.
2. KPI Card: Winner of Each Year
 - Displays the top-performing country with points in the selected year.
3. Pie Chart: Share of Points among Top 5 Countries
 - Shows how the top 5 nations in a given year captured the distribution of total points.



Insights:

- The table supports detailed comparison.
- The KPI quickly communicates the yearly champion.
- The pie chart reveals dominance concentration (whether one country dominated or points were evenly shared).