How to create Dashboard to create report from DWH

Creating a dashboard to generate reports from a Data Warehouse involves using visualization tools to present insights and data-driven information in an organized and visually appealing manner. Here's a general step-by-step guide to create a dashboard for reporting purposes:

Step 1: Define Dashboard Requirements:

Determine the specific metrics, KPIs, and data you want to visualize on the dashboard.
Identify the target audience for the dashboard (e.g., executives, analysts) to tailor the content and format accordingly.
Step 2: Choose a Visualization Tool:
Select a visualization tool that is compatible with your Data Warehouse and provides the features you need. Popular options include:

Tableau
Power BI
Looker
QlikView/Qlik Sense
Databricks' built-in visualizations

Step 3: Connect to Data Warehouse:

Connect the chosen visualization tool to your Data Warehouse.
Import the relevant data tables/views or create queries to extract the required data for reporting.

Step 4: Design the Dashboard:

Organize the dashboard layout with sections, panels, and widgets for different visualizations.
Choose appropriate chart types (e.g., bar charts, line charts, pie charts) that best represent the data.

Customize colors, fonts, and labels to ensure clarity and readability.

Step 5: Build Visualizations:

Create visualizations using the tool's drag-and-drop interface.
Select data fields for the X-axis, Y-axis, filters, and legends.
Customize settings for each visualization, such as axis labels, titles, and data aggregation.
Step 6: Add Interactivity:

Utilize interactive features like drill-down, filters, and parameterized queries to allow users to explore data in-depth.
Implement dynamic filtering to update multiple visualizations simultaneously based on user selections.
Step 7: Incorporate Text and Annotations:

Include text boxes, headers, and annotations to provide context and insights for each visualization.
Explain key findings, trends, or anomalies in the data.
Step 8: Arrange Widgets and Layout:

Organize widgets in a logical order to guide users through the dashboard's narrative.
Ensure a balanced and visually appealing layout that doesn't overwhelm users with information.
Step 9: Test and Refine:

Test the dashboard's functionality and usability with sample data.
Gather feedback from stakeholders to identify any improvements or adjustments needed.
Step 10: Share the Dashboard:

Publish the completed dashboard to a server or cloud platform.
Share access with authorized users, whether through direct links or embedded reports in web applications.
Step 11: Maintain and Update:

Regularly update the dashboard with fresh data to keep insights relevant.
Review and refine the dashboard based on user feedback and changing reporting requirements.
Remember that creating effective dashboards requires a balance between aesthetics and functionality. Focus on delivering clear and actionable insights that empower users to make informed decisions based on the data presented.