# Project: Sales Dashboard in Power

**Key Concepts and Steps:**

* **Introduction to Power BI:** The video introduces Power BI as a Microsoft business intelligence tool for data connection, report creation, and dashboard design. It also mentions job opportunities and average starting salaries for Power BI professionals.
* **Installation and Interface:** Viewers are guided on how to download and install Power BI Desktop. The three main views of the Power BI interface are explained: **Report View** for creating charts, **Data View** for viewing tables and writing DAX queries, and **Model View** for establishing relationships between data sources.
* **Data Import and Transformation:** The tutorial demonstrates how to import data from a CSV file. It then dives into the **Power Query Editor** to clean and transform the data. Key data cleaning steps covered include changing data types, removing duplicates, adding custom columns (e.g., a "Test" column created by multiplying "Amount" and "Quantity"), and using the "Group by" feature to aggregate data.
* **Data Views and Relationships:** The importance of the **Data View** is highlighted for additional formatting and DAX formula creation. The **Model View** section explains how to create and manage relationships between tables, covering different cardinalities like one-to-one and one-to-many.
* **Dashboard Creation:** The video provides a detailed walkthrough of building the dashboard itself. This includes:
  + Adding a dashboard heading with a text box.
  + Creating a **Stacked Column Chart** to show profit by month and formatting it with custom colors, backgrounds, and borders.
  + Building a **Stacked Bar Graph** to display profit by sub-category, with a filter to show only the top 5.
  + Designing **Donut Charts** to visualize orders by category and payment mode.
  + Using **Cards** to display key metrics such as total amount, total profit, total quantity, and average order value.
  + Creating additional bar graphs for top customers and top states.
  + Adding **Filters (Slicers)** for filtering the dashboard data by quarter and state.
* **Conclusion:** The video concludes by showcasing the final, interactive dashboard and suggesting a line for viewers to add to their resumes after completing the project: "Analyzed e-commerce sales data, created an interactive dashboard using Power BI."

You can watch the video here: [Project Video](https://www.youtube.com/watch?v=6cV3OwFrOkk)