How to Explain Previous Power BI Project

Multi-speciality Health Insurance based Project

Q. How to explain about a multi-speciality health insurance based project when asked in a Power BI Interview?

A. The project is a health insurance project related to a multi-specialty hospital, and it involves analyzing and presenting various aspects of the hospital's data using Power BI.

- To begin with, the project involved data extraction from various sources, such as hospital databases, insurance providers, and government agencies. This data was then cleaned and transformed to ensure consistency and accuracy.

- Once the data was prepared, it was used to create an interactive Power BI report. The report contains several visualizations and dashboards, each focusing on a specific aspect of the hospital's operations.

- For example, one dashboard provides an overview of the total number of policies in the hospital, the amount paid for these policies, and the total claim amount. This dashboard can help hospital administrators and insurance providers to identify trends and patterns in insurance policy sales, premiums, and claims, and make informed decisions about policy pricing and coverage.

- Another dashboard focuses on the hospital's branches, providing a breakdown of the number of branches, their location, and their performance metrics such as patient satisfaction and wait times. This dashboard can help hospital managers to optimize the hospital's operations, allocate resources more effectively, and improve the overall patient experience.

- The report also includes visualizations on the number of deaths and undeaths in the hospital, which can help hospital administrators to identify potential issues and take proactive measures to improve patient outcomes.

- Throughout the project, the focus was on creating a user-friendly and intuitive Power BI report that provides valuable insights into the hospital's operations. By using Power BI to analyze and present the hospital's data, hospital administrators and insurance providers can make more informed decisions, optimize their operations, and ultimately improve patient outcomes.

Q. What problem did you identify and solve?

- In this project, I have used Power BI to analyze and present various aspects of a health insurance project related to a multi-specialty hospital. During the course of the project, I have noticed that there was an issue with the hospital's claims processing, which was causing delays in payments and affecting patient outcomes.

- To identify the issue, I have used Power BI to create a report that focused on the hospital's claims processing metrics, such as the number of claims processed, the average processing time, and the number of rejected claims. By analyzing this data, I was able to identify a significant bottleneck in the claims processing workflow, which was causing delays and errors.

- Using this insight, I have created a new report that highlighted the bottleneck and proposed a solution to address it. The report included visualizations that showed the average processing time for each stage of the claims process, as well as the number of claims processed and rejected at each stage. It also included recommendations for how the hospital could improve its claims processing workflow, such as implementing automation and streamlining the claims review process.

- By presenting this report to hospital administrators and insurance providers, I was able to raise awareness of the issue and propose a solution to address it. Through collaboration and implementation of the recommended changes, the hospital was able to significantly reduce processing times and improve patient outcomes.

- Overall, my work in identifying and resolving this issue through a Power BI report highlights the power of this tool to provide valuable insights and drive actionable change in healthcare organizations. By leveraging Power BI to analyze and present data in a user-friendly and intuitive way, I was able to make a meaningful impact on the hospital's operations and ultimately improve patient outcomes.

Q. What are the different charts used?

In this health insurance project related to a multi-specialty hospital, various types of charts and visualizations were used in the Power BI report to present the data in an intuitive and easily understandable way.

- Here are some examples of the types of charts used and why they were chosen:

1. **Bar charts**: Bar charts were used to display the total number of policies in the hospital and the total number of hospital branches. Bar charts are an effective way to represent categorical data in a simple and easy-to-understand format.

2. **Line charts**: Line charts were used to display the trend of the total amount paid for policies and the total claim amount over time. Line charts are useful for showing trends and patterns over time, and they help to highlight any significant changes or anomalies in the data.

3. **Pie charts**: Pie charts were used to display the distribution of different types of policies and the number of deaths and undeaths in the hospital. Pie charts are an effective way to show the proportion of different categories in the data.

4. **Stacked column charts**: Stacked column charts were used to display the breakdown of claims by type and status. Stacked column charts are useful for showing the composition of data that has multiple categories and subcategories.

5. **Maps**: Maps were used to display the locations of hospital branches and their performance metrics such as patient satisfaction and wait times. Maps are an effective way to visualize geographic data and provide an easy-to-understand overview of the hospital's operations across different locations.

The selection of these charts was based on several factors, including the type of data being presented, the audience for the report, and the goals of the project. The charts were chosen to ensure that the data was presented in a clear and visually appealing way, and that the insights were easily understandable and actionable.