

Part - 6

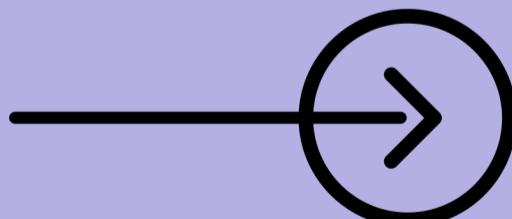
# Data Modelling

## Interview

## Questions and Answers...!



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# **What is a data model in Power BI?**

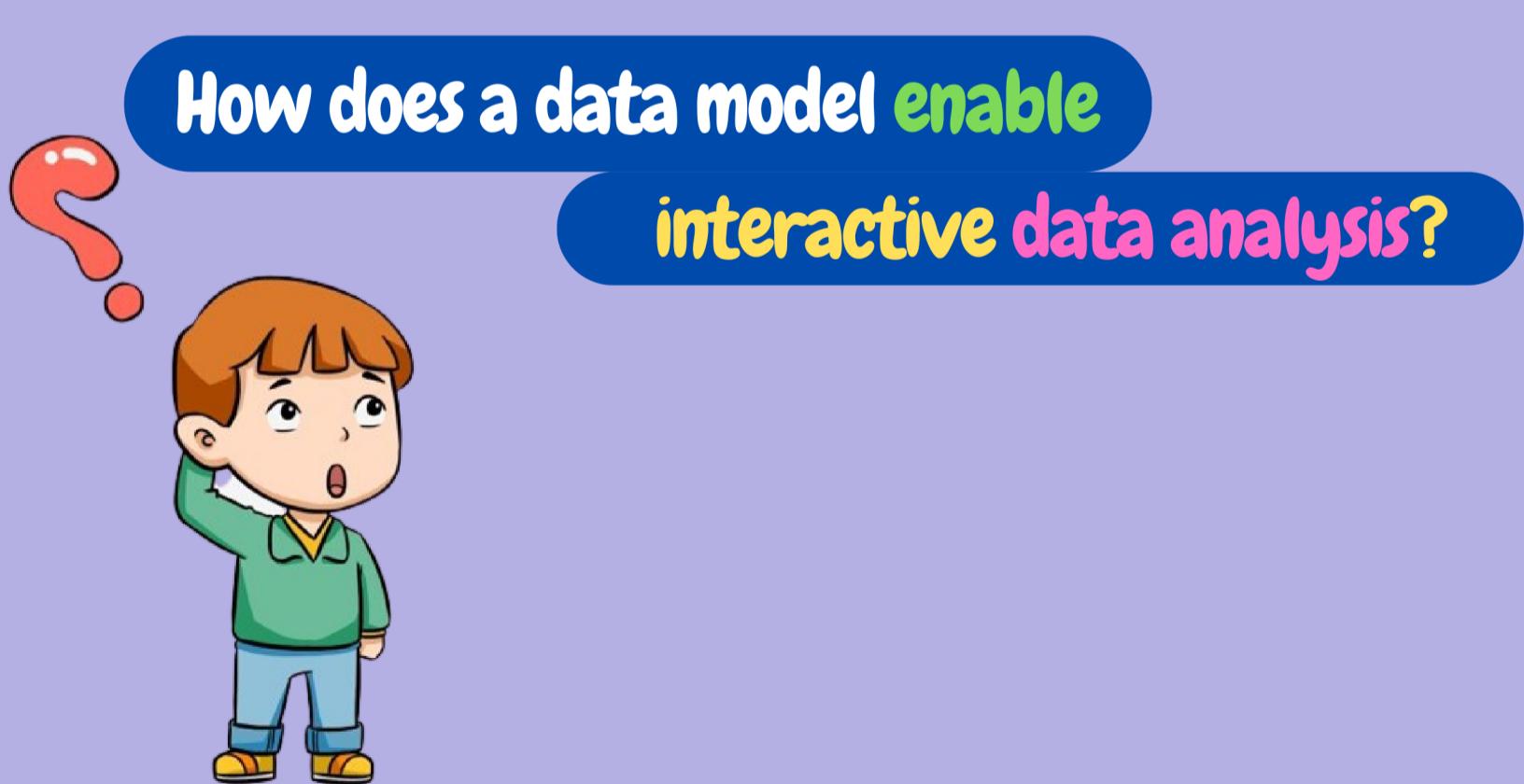
**A data model in Power BI is a collection of tables, relationships, calculated columns, and measures that define the structure and logic of your dataset. It represents the underlying data architecture that supports interactive data analysis and reporting.**

**Why it is Important  
in Power Bi**



## **Importance in Power BI**

- **A well-designed data model is crucial for accurate analysis and reporting in Power BI.**
- It enables users to explore data relationships, perform complex calculations,**
- and derive actionable insights from their data.**



## Enable interactive Data analysis

→ **A data model allows you to create relationships between different tables,**

**which can be used to perform complex calculations and visualizations.**

**This interconnectivity enables interactive data exploration, making it easier to uncover patterns and insights.**



**Do you have any  
Example for it**

## Example:

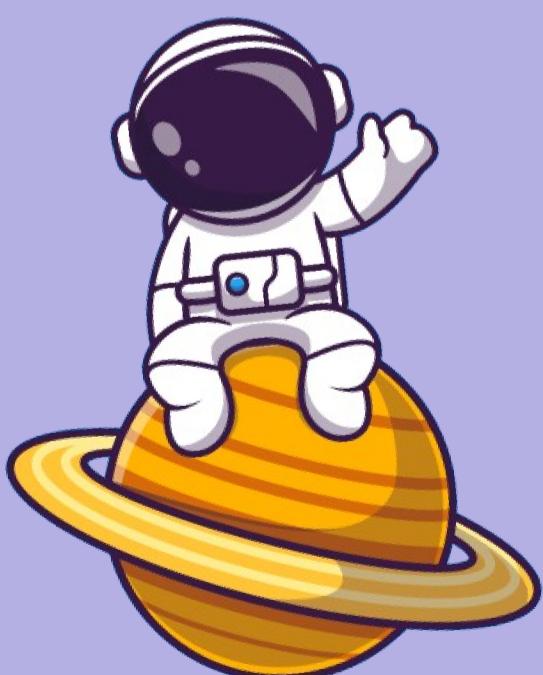
→ Suppose you're analyzing sales data for a retail company.

Your data model might include tables for sales transactions, products, customers, and dates.

Relationships between these tables allow you to analyze sales performance by product category, customer segment, or time period.

What components make up

a data model in Power BI?



## **Components make up a data model in Power BI:**

→ A data model in Power BI consists of tables, relationships, calculated columns, and measures.

These components define the data structure and logic, enabling efficient data analysis and reporting.



wanna see some  
**Counter Questions**

# **1 . How do you create relationships between tables in a Power BI data model?**

→ You create relationships by matching columns between tables. These columns, usually keys, should have the same data type.

**Relationships can be defined as one-to-one, one-to-many, or many-to-many, and you can set the cross-filter direction to control data flow.**



**Next Question**

## **2. What are calculated columns and measures in a data model?**

→ **Calculated columns are additional columns created using DAX formulas, calculated row by row, and stored in the model.**

**Measures are calculations used in aggregations, calculated on the fly, and respond dynamically to report filters.**



### **3. How does the data model impact the performance of Power BI reports?**

→ A well-optimized data model improves performance by reducing complexity,

**minimizing data redundancy, and ensuring efficient calculations.**

**Poorly designed models can lead to slow performance and inaccurate results.**



**Next Aane do** 😎

## **4. What steps do you take to ensure your data model is optimized?**

→ To optimize a data model, ensure proper relationships, use appropriate data types, remove unnecessary columns, avoid many-to-many relationships,

and use calculated measures instead of calculated columns when possible. Regularly review and refine the model based on performance metrics.

**Motu kya kar rha hai yaar,  
Last Qestion or dekh lo**



## **5. Can you explain the difference between a star schema and a snowflake schema in the context of a data model?**

→ A star schema has a central fact table connected to dimension tables, forming a star-like structure. It is simpler and typically used for models focused on performance.

A snowflake schema normalizes dimension tables into multiple related tables, reducing redundancy but increasing complexity, and is used when dimensions are large.



you completed one interview question  
with me,

see you in the next one



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