

Part - 3

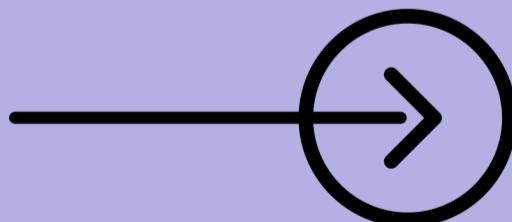
Data Modelling

Interview

Questions and Answers...!



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What is the difference between star and snowflake schema in the model view?

A star schema consists of a central fact table and multiple dimension tables that surround it, resembling a star shape.

Fact table role: The fact table contains keys to every dimension table and attributes like units sold, quantity, etc.

When should i

use it...?



Use Case:

→ **Use a star schema when your model is mostly dependent on the fact table,**

As it provides good performance for queries focused on the fact table.

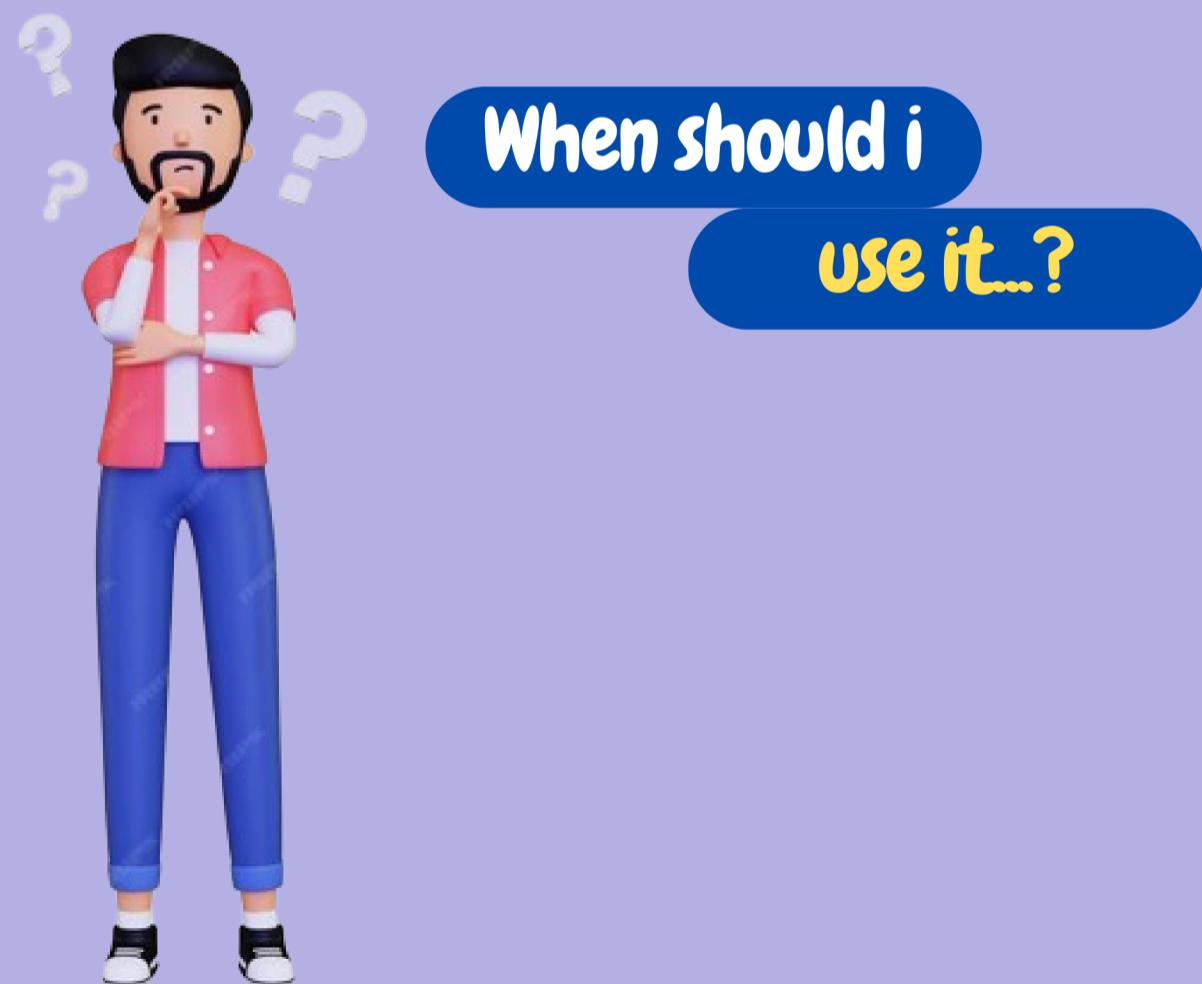


Than what is a **snowflake schema**



Snowflake Schema

- In a snowflake schema, dimension tables are normalized, meaning they are split into additional tables to reduce redundancy.
- Why are dimension tables normalized in a snowflake schema?
- Dimension tables are normalized to reduce redundancy and improve the efficiency and performance of the model.



Use Case:

→ **Use a snowflake schema when dimension tables are very large,**

As normalizing them can improve overall performance.



wanna see some
Counter Questions

1 . What are the performance implications of using a star schema vs. a snowflake schema?

→ **A star schema typically offers faster query performance because fewer joins are needed.**

A snowflake schema may require more joins but can be more efficient for large dimension tables due to reduced redundancy.



Next Question

2. Can you give an example of a situation where a star schema would be preferable?

- A star schema is preferable in scenarios where quick query performance is crucial, such as in a retail business analyzing sales data, where the majority of queries focus on aggregating sales figures from the central fact table.



3. What are the main advantages of a snowflake schema over a star schema?

→ The main advantages of a snowflake schema include reduced data redundancy, more efficient storage,

and potentially better performance for very large dimension tables due to normalization.



4. Can you combine star and snowflake schemas in the same data model?

→ Yes, you can combine both schemas in a hybrid approach, using a star schema for simpler, smaller dimensions and

A snowflake schema for more complex, larger dimensions to balance performance and efficiency.



**you completed one interview question
with me,**

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