

Normalization:

It is a process of splitting a database into multiple tables so that we can reduce redundancy and improve data integrity.

In - Power BI \rightarrow fact and dimension tables are two types of ~~data~~ tables used to build a data model.

Fact:

Fact table have measurable and quantitative data.

Dimension:

Dimension table will contain unique categorical data.

Model Creation:-

Conditionality in the relationship b/w two tables in a data model is defined by 4 types.

- 1) 1 to 1
- 2) 1 to many
- 3) many to 1
- 4) many to many

Data

Why Data modelling?

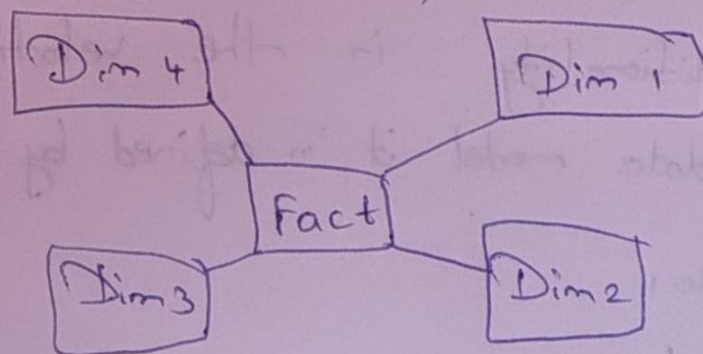
- Remove unnecessary columns & Rows.
- Perform Groupby & Summarize
- Optimize Column Datatypes.
- Use Custom Columns

Schema:-

It is the structure of the data model that defines how data is connected and organized.

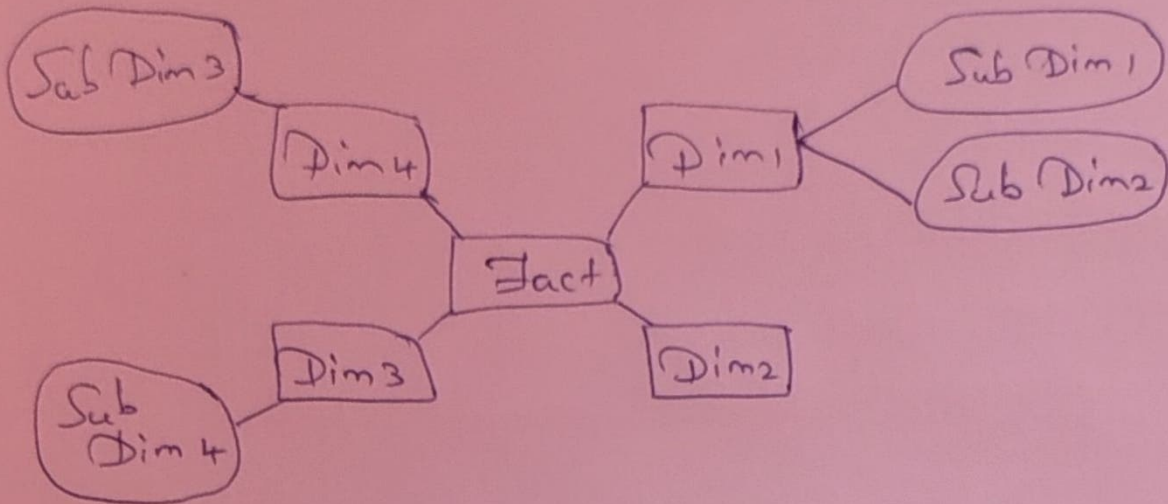
1) Star Schema

- one fact table to this will connect all Dimension table.
- Dimension table in a star schema align with fact table giving it a star shape.



2) Snowflake Schema

- Dimension table have Sub-Dimension table.
- It use sub-division to represent additional joins in queries.



3) Galaxy Schema:-

- This Schema had more than one fact table linked to dimension tables.

