

DATA MODELLING

1. what is data Modelling?

Creating a relationship between two table is called data Modelling.

Two Tables are

1. Fact Table 2. Dimensional Table

1. Fact Table

- Detailed Information
- Duplicates allowed
- foreign Key (fact Table)

2. Dimensional Table

- Detail Information about fact table
- Duplicates not allowed.
- Primary Key (Dimension Table)

2. what is Star Schema, Snowflake Schema?

Schemas available in PowerBI

1. Star Schema - One fact table Connected with multiple dimension table.

2. Snowflake Schema - One fact table Connected with multiple dimension Table and then dimension Table Partially Connected with other dimension Table.

3. Galaxy Schema - Multiple fact table and Multiple Dimension table.

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- 3). what is cardinality or relationship?
- Refers to the Number of distinct Values between two tables in a data model.
- It defines how the rows in one table are related to the rows in another table based on a Specific Column.

4). How many cardinality or relationship are there in Power bi?

↳ Types of cardinality

1. One to One 2. One to Many 3. Many to Many
 4. One to One
- Table A and Table B both are unique
2. One to Many
- Table A is unique and
Table B is duplicate
3. Many to One
- Table A is duplicate and
Table B is unique
4. Many to Many
- Both Table A and Table B are duplicate.
- Table A is duplicate
Table B is duplicate

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5). What is relationship in Power BI?

Relationship shows how two or more tables are linked.

Refers to the association between two tables based on common fields.

6). How to implement relationship?

→ Involves connecting tables based on common columns.

1. Open Power BI Desktop
2. Load Tables
3. View Relationship Pane
4. Add Tables to the model
5. Create Relationships
6. Define Relationship Properties
7. Set Cardinality
8. Bi-Directional Relationship
9. Close and Apply
10. Use Relationships in Visualizations

7). What is bidirectional filter?

Data will be flow on both sides.

Filter will be available on both sides.

is also known as cascading filter.

8). How many active relationships we can create at a time during modelling?

No of relationships we can create but only one relationship will be active.

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9). what is Report View?

N No of Report Pages will be created in the

Visualization.

Report View is one of the primary workspaces within Power BI desktop where you create and design interactive reports.

The main area of the Report View is Canvas.

10). what are the Refresh in Power BI?

There are 2 types of Refresh

1. Full Refresh 2. Incremental Refresh

1. Full Refresh

Total Refresh Start from until Now.

Drawbacks - Time Lagging

2. Incremental Refresh

Latest data will refresh.

11). what is full Refresh?

Full Refresh refers to the process of updating all the data in a dataset from its source.

Total Refresh Start from until Now.

12) What is Incremental Refresh?

Feature that allows you to refresh only a subset of your data rather than updating the entire dataset.

Latest data will refresh.

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13). How to implement Incremental Refresh?

- > only refresh the latest data
- > Need Premium licences
- > SQL Database (or) Azure
- > Reserved parameter -> Range Start, Range End
- > Query folding it will be better
- > without SQL -> How to use

Incremental refresh -> Additional Custom Query function.

- > Mostly Incremental refresh fact Table
- > Need one date column [Range Start, Range End]

Step-1

- > Manage Parameters -> New Parameter
- > Name: Range Start } Name: Range End
 Type: Date/Time } Type: Date/Time
 Current Value: 01-01-2020 } Current Value: 31-12-2020

Step-2 Sales Date fact Table

Right click -> Date Filter

is after equal -> Range Start

is before equal -> Range End

close & apply

-> Fact Table -> Right click -> Incremental Refresh

Table -> Fact-Table-Data

Share grows where column last

Refresh -> How many

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