  1. Explain Normalization and the usage

--- Normalization is a technique used in database design to reduce data redundancy and improve data integrity.

* It commonly used to :

**\* Eliminate redundant data** to decrease table sizes and improve processing speed & efficiency

**\* Minimize errors and anomalies** from data modifications (inserting, updating or deleting records)

**\* Simplify queries** and structure the database for meaningful analysis.

  2. Explain Data Table Types

--- Three main types of data tables:

* Fact Tables:  that contains the quantitative data
* Dimensions Tables: that contains the descriptive information about the data in the fact table
* Bridge Tables: This table is used to connect two or more dimension tables that have a many-to-many relationship.

  3. What is Primary key and Foreign Key

Primary Key :

\*Uniquely identifies each row in table.

\*Only one primary key is allowed in a table.

\* Available only in the lookup table

 Foreign Key :

\*  A Column or group of columns in a relational database table that provides a link between data in two tables.

\*  More than one foreign key is allowed in a table.

\* Available only in data table.

  4. Explain Table Schema

A table schema refers to the structure or layout of a table that defines the data types and relationships of its columns. It specifies the metadata of a table, such as column names, data types, descriptions, and relationships with other tables in the dataset.

  5. Create Active & Inactive Relationships using Manage Relationships

