

24280070
24280018

Star Schema

Address

Dimension

Patient

★ Red editing
Represents
the changes
(Normalized)
for Snowflake
Schema.

Specialty

Dimension

Doctor

Patient_visit

visit_id (PK)

Patient_id (FK to patient)

Doctor_id (FK to doctor)

Diagnosis_id (FK to diagnosis)

treatment_id (FK to treatment)

Date_id (FK to date)

Cost_id (FK to billing)

Length-stay

total cost

Dimension

Diagnosis

/BED

Disease
Category

Dimension

Treatment

Fact Table

Payment

Dimension

Date

Type

Queries

Method

- 1 count(*) on patient-visit group by doctor-id & date-id.
- 2 AVG(Length-stay) grouped by diagnosis-id & date-id.
- 3 Select(treat-id) Max(total-cost) AS H-C FROM(Patient-visit)
- 4 count(patient-id).group by doctor-id & date-id.

[Group by Treat-id order by H-C Desc Limit 1]

Data Preprocessing / Cleaning Techniques
Handling Missing

Normalization/Scaling

Encoding categorical Data (variables)

Feature Extraction

Data Splitting

Extract : From multiple resources.
Load : To use for analysis/insights (BI).
Transform : Normalize, missing, (Clean).

09/02/2025

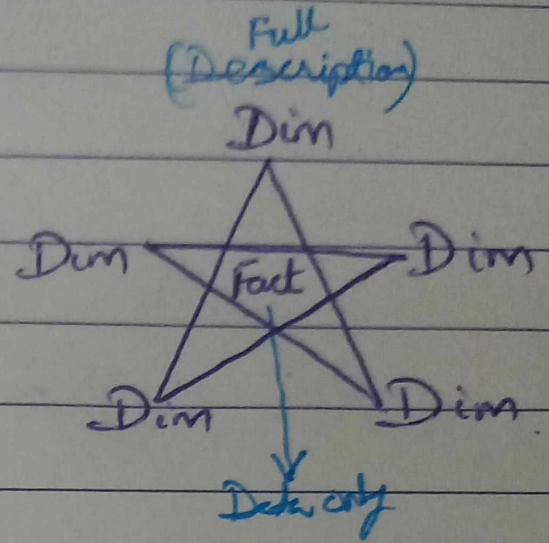
بسم الله الرحمن الرحيم

Data Modeling

Establishing Relationships between tables.

Star Schema

Type of DM technique used in data warehousing to represent data in a structured way.



Star Flake Schema

Normalized version of star schema.

