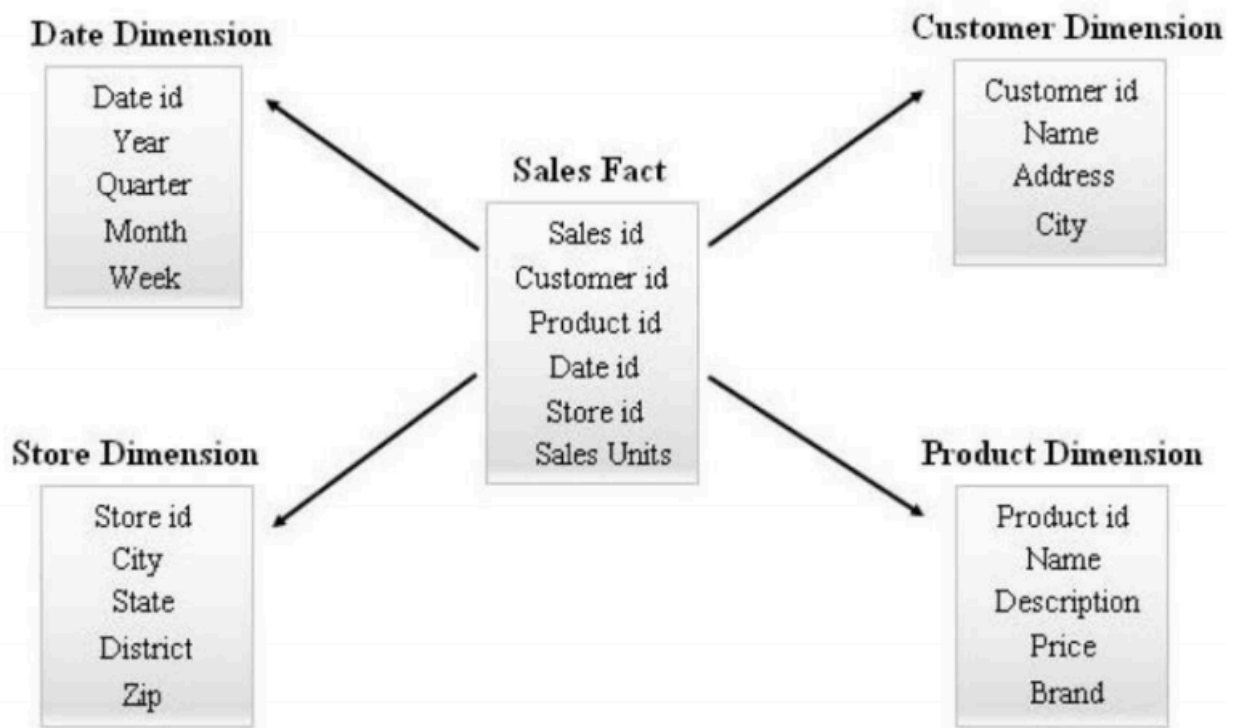# Experiment No 2

Aim : Implementation of all dimension table and fact table based on experiment 1 case study

Theory : DESIGN DIMENSIONAL MODELING (STAR AND SNOWFLAKES SCHEMAS) USING ONLINE TOOLS.
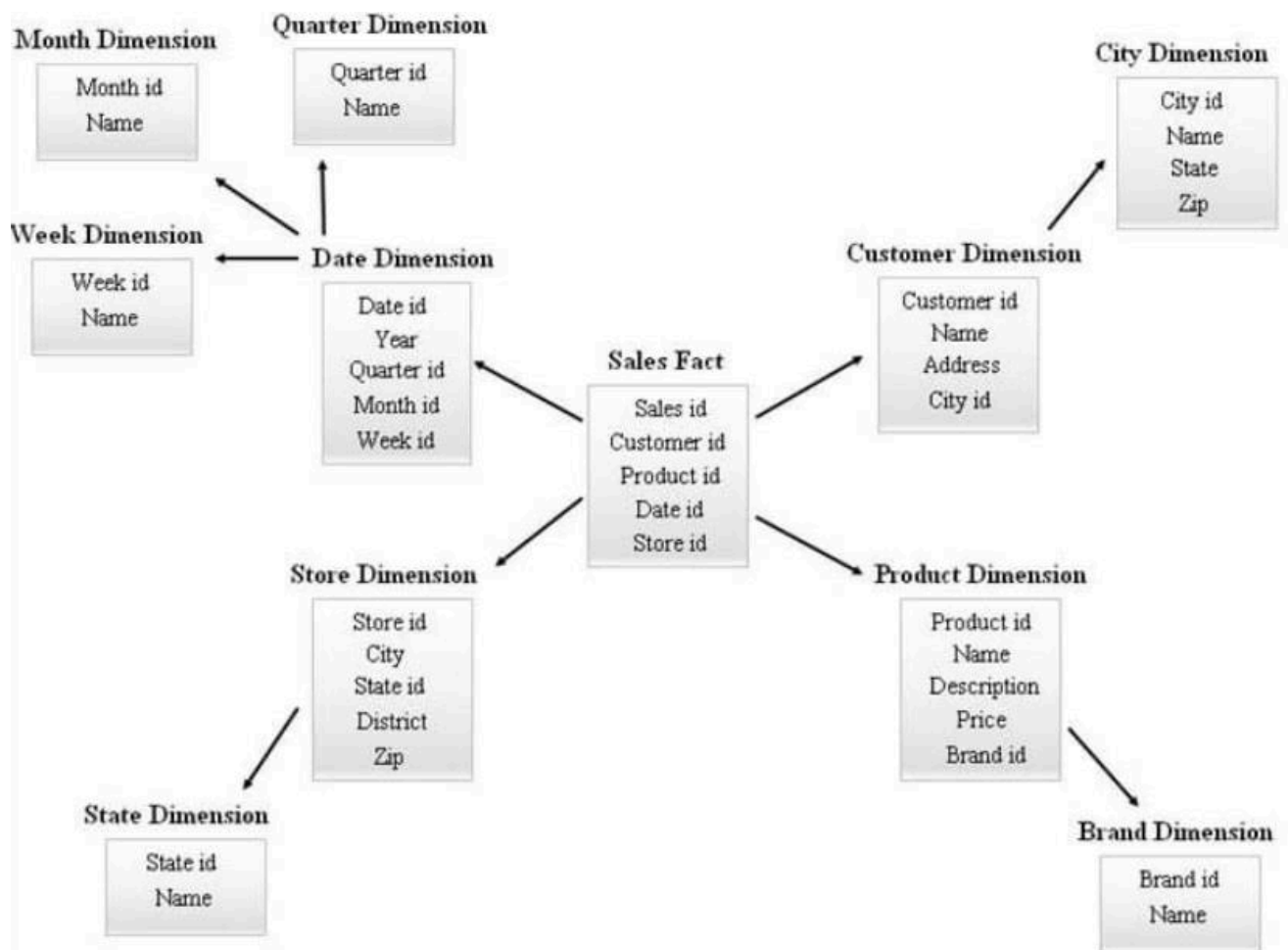
A) STAR SCHEMA

• In a star schema, the fact table will be at the center and is connected to the dimension tables.
• The tables are completely in a denormalized structure.
• SQL queries performance is good as there is less number of joins involved.
• Data redundancy is high and occupies more disk space.
For E.g.

B) SNOWFLAKE SCHEMA

• A snowflake schema is an extension of a star schema where the dimension tables are connected to one or more dimensions.
• The tables are partially denormalized in structure.
• The performance of SQL queries is a bit less when compared to star schema as more joins are involved.
• Data redundancy is low and occupies less disk space when compared to star schema.

Month Dimension
Month id
Name

Quarter Dimension
Quarter id
Name

City Dimension
City id
Name
State
Zip

Week Dimension
Week id
Name

Date Dimension
Date id
Year
Quarter id
Month id
Week id

Sales Fact
Sales id
Customer id
Product id
Date id
Store id

Customer Dimension
Customer id
Name
Address
City id

Store Dimension
Store id
City
State id
District
Zip

Product Dimension
Product id
Name
Description
Price
Brand id

State Dimension
State id
Name

Brand Dimension
Brand id
Name

Conclusion :
Studied about Star Schema and Snowflakes schema and successfully designed the diagrams.