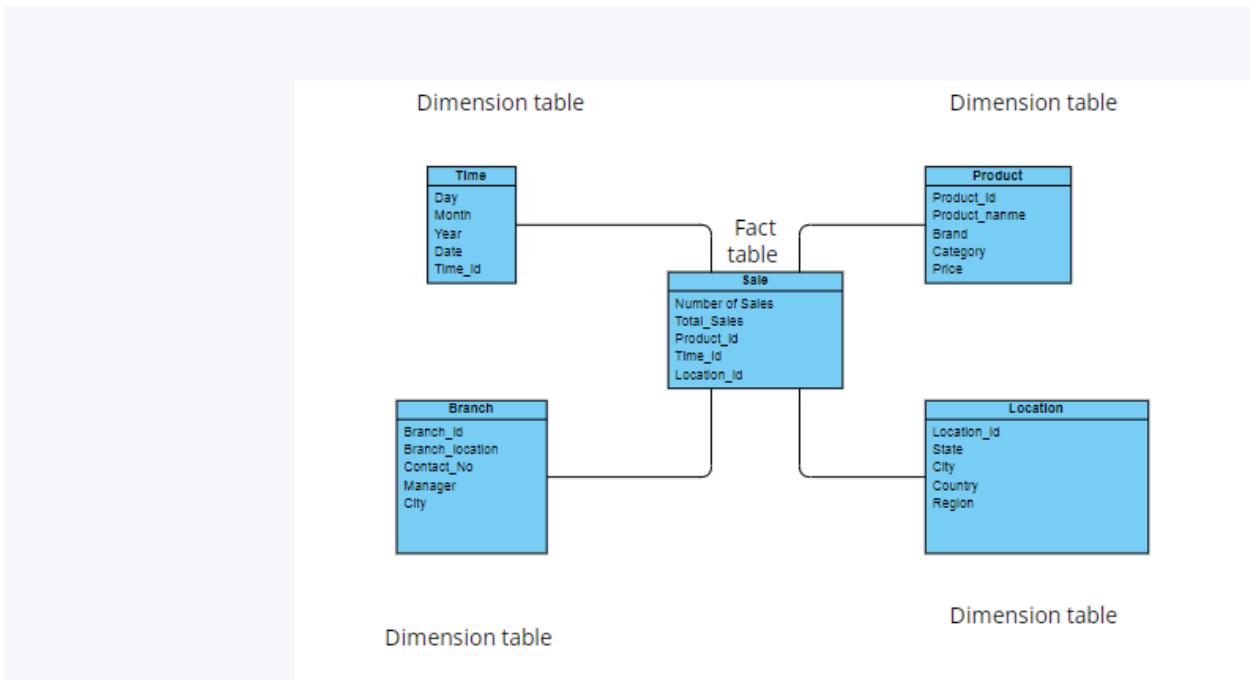


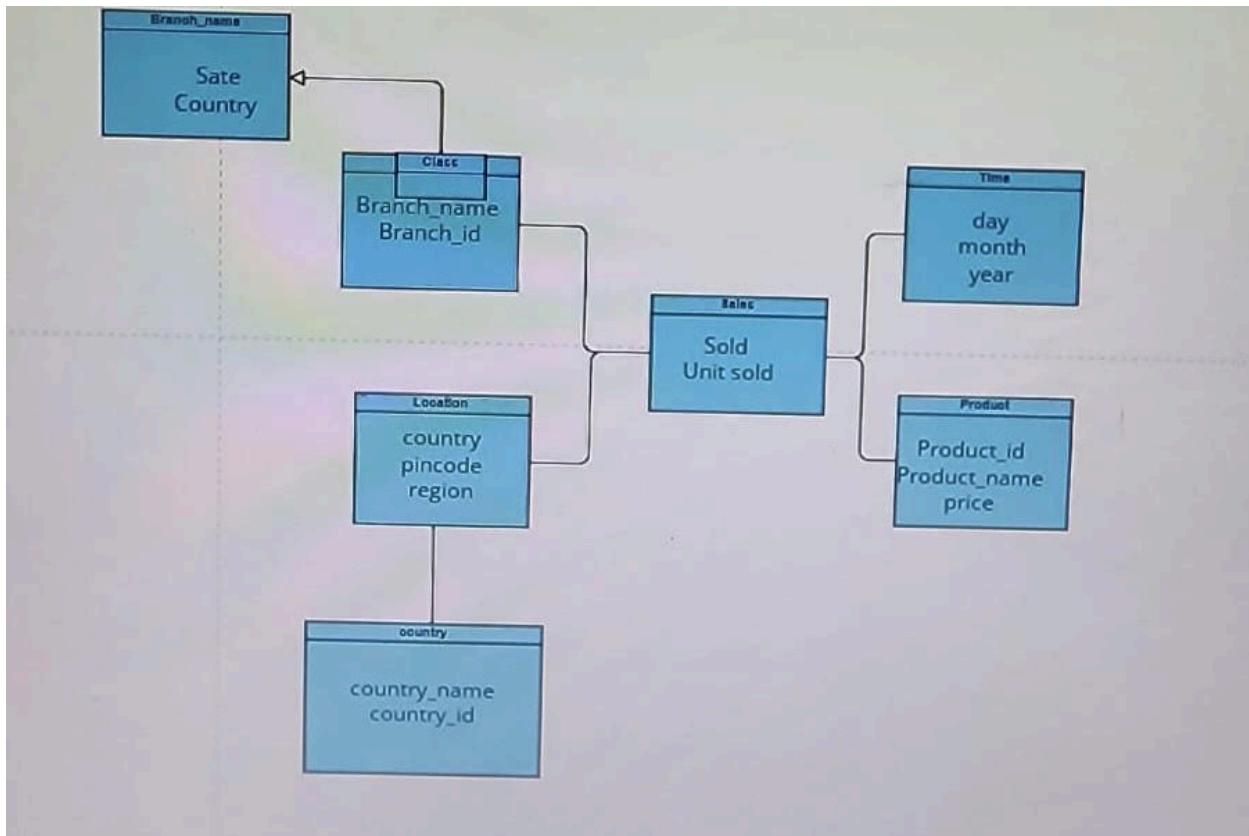
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EXP 1 Design Star and snowflake schema

Star Schema:



SnowFlake Schema:



Review Question 1

In a star schema, how is the fact table typically related to the dimension tables?

Answer:

In a star schema, the fact table is placed at the center and is directly connected to each dimension table using foreign keys. Each dimension table has a one-to-many relationship with the fact table, where one dimension record can be associated with many fact records.

Review Question 2:

What is the main difference between a star schema and a snowflake schema?

Answer:

The main difference is that in a star schema, dimension tables are denormalized and directly connected to the fact table, resulting in a simple structure and faster query performance, whereas in a snowflake schema, dimension tables are normalized into multiple related tables, which reduces data redundancy but increases complexity and number of joins.