

## Data Warehousing

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### Homework

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3<sup>rd</sup> year ECE B

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**Q1. What is a data warehouse? List the types of Data warehouse architectures.**

A large store of data accumulated from a wide range of sources within a company and used to guide management decisions.

Types: Single tier architecture, two tier architecture, three tier architecture

**Q2. What does OLAP stand for?**

Online analytical processing (OLAP) is a system for performing multi-dimensional analysis at high speeds on large volumes of data. Typically, this data is from a data warehouse, data mart or some other centralized data store.

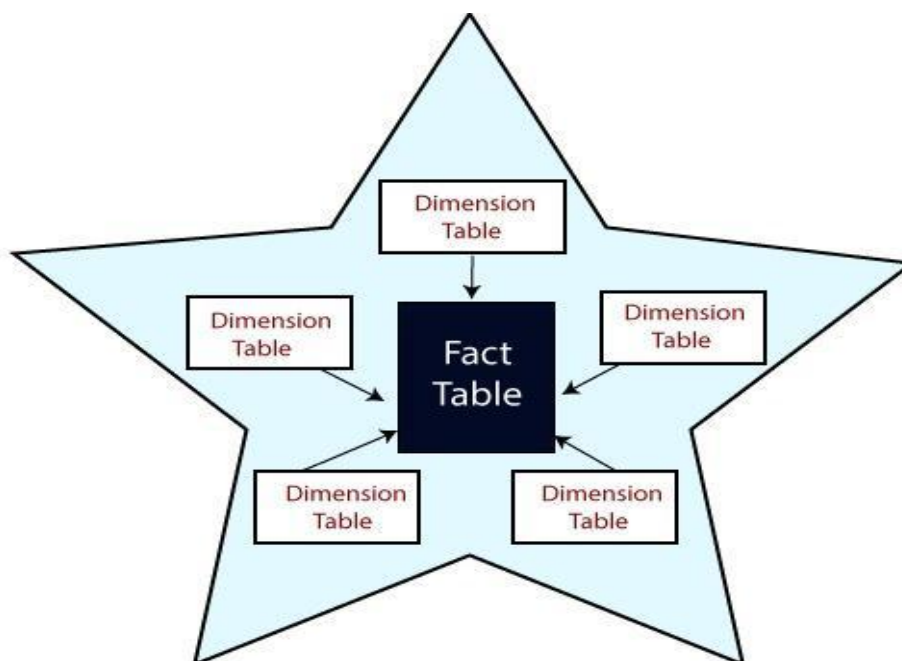
**Q3. What does OLTP stand for?**

online transaction processing

Within the data science field, there are two types of data processing systems: online analytical processing (OLAP) and online transaction processing (OLTP)

**Q4. What is a star schema?**

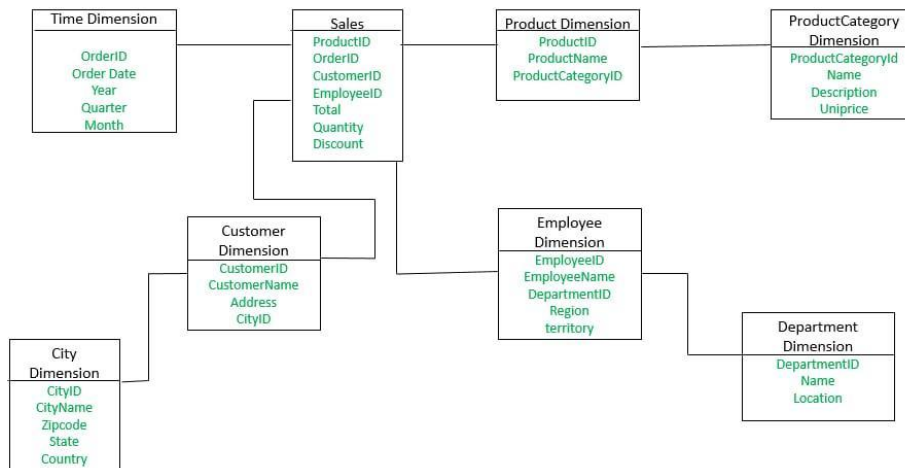
A star schema is a database organizational structure optimized for use in a data warehouse or business intelligence that uses a single large fact table to store transactional or measured data, and one or more smaller dimensional tables that store attributes about the data.



**Star Schema**

### Q5. What is a snowflake schema?

The snowflake schema is a variant of the star schema. Here, the centralized fact table is connected to multiple dimensions. In the snowflake schema, dimensions are present in a normalized form in multiple related tables

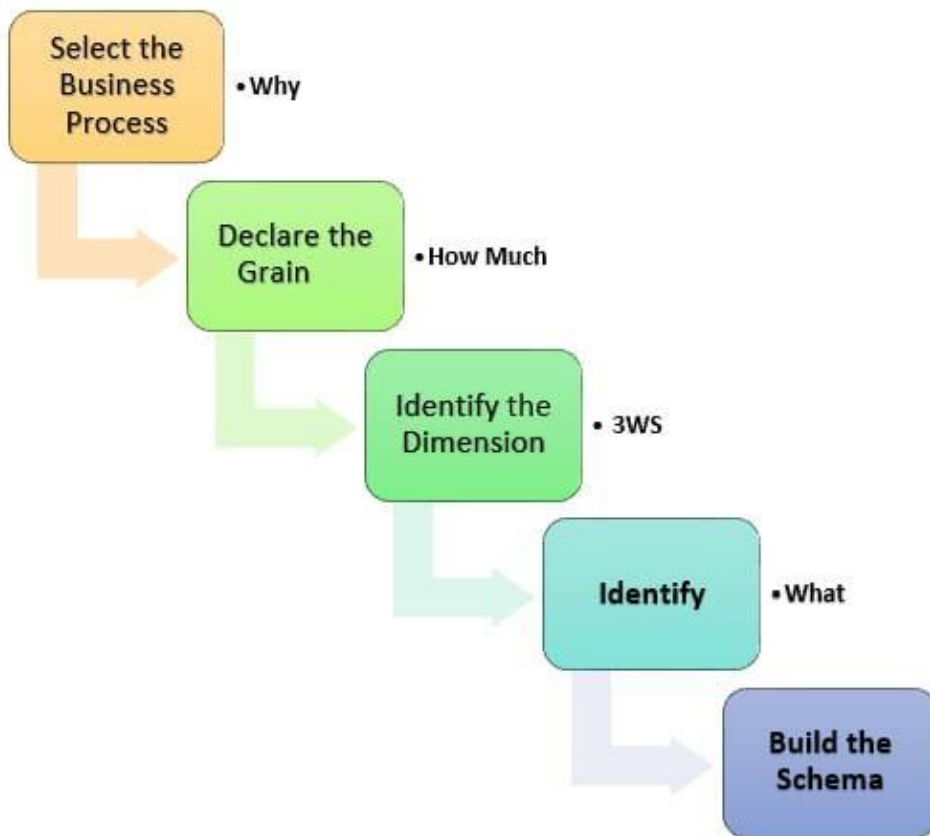


### Q6. Define fact-less fact.

Fact less facts are those fact tables that have no measures associated with the transaction. fact less facts are a simple collection of dimensional keys which define the transactions or describing condition for the time period of the fact

### Q7. What do you understand by dimensional modeling?

Dimensional modeling is a logical design method that follows to present the data in a standard structure that is perceptive and enables high-performance access. It is genetically dimensional and observes to a discipline that needs the relational model with several restrictions.



#### **Q8. What is a data mart?**

A data mart is a subset of a data warehouse focused on a particular line of business, department, or subject area. Data marts make specific data available to a defined group of users, which allows those users to quickly access critical insights without wasting time searching through an entire data warehouse.