Data Warehousing

Homework

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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.

Q5. What is a snow flake 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.