1)	What is a	data warehouse?	List the types of	f Data warehouse	architectures.
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data warehouse architecture is a method of defining the overall architecture of Data communication processing and presentation that exist for end-clients computing within the enterprise. Each data warehouse is different, but all are characterized by standard vital components.

Types of Data Warehouse Architecture:

Single-tier architecture, which aims to deduplicate data to minimize the amount of stored data.

Three-tier architecture.

Data Warehouse Database.

Extraction, Transformation, and Loading Tools (ETL)

Metadata.

Data Warehouse Access Tools.

# 2) 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.

#### 3) What does OLTP stand for?

OLTP (online transaction processing) is a class of software programs capable of supporting transaction-oriented applications. in computing, a transaction is a sequence of discrete information exchanges that are treated as a unit.

4	What	is a	star	schema	1
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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 doto.

#### 5) What is a snow flake schemo?

A snowflake schema is a multi-dimensional data model that is an extension of a star schema, where dimension tables are broken down into subdimensions. Snowflake schemas are commonly used for business intelligence and reporting in OLAP data warehouses, data marts, and relational databases.

## 6) Define fact-less fact.

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

# 7) "What do you understand by dimensional modeling?

Dato Dimensional Modelling (DDM) is a technique that uses Dimensions and Facts to store the data in a Data Warehouse efficiently. It optimises the database for faster retrieval of the data. Dimensional Models have a specific structure and organise the data to generate reports that improve performance

### 8) What is a data mart?

A dota mort is a structure/access pottern specific to data warehouse environments, used to retrieve client-facing data. Data mart is a subset of the data warehouse and is usually oriented to a specific business line or team.