1. What is a data warehouse? List the types of Data warehouse architectures.
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?
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.
5.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.
6."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

7. 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.