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1.##Whatisadatawarehouse?ListthetypesofDatawarehouse architectures.

Adatawarehousearchitectureisamethodofdefiningtheoverall architectureof Datacommunicationprocessingandpresentationthatexistforend-clients computingwithintheenterprise.

Eachdatawarehouseisdifferent, but allarecharacterized by standard vital components.

TypesofDataWarehouseArchitecture:

Single-tierarchitecture, which aim stoded uplicated at a tominimize the amount of stored data.

Three-tierarchitecture.

DataWarehouseDatabase.

Extraction, Transformation, and Loading Tools (ETL) Metadata.

DataWarehouseAccessTools.

2.##WhatdoesOLAPstandfor?

On line analytical processing (OLAP) is a system for performing multidimensional analysis

Athighspeedsonlargevolumesofdata. Typically, this data is from a data warehouse,

Datamartors ome other centralized datastore.	
3.##WhatdoesOLTPstandfor?	
OLTP(onlinetransactionprocessing)isaclassofsoftwareprograms capableofsupportingtransaction-orientedapplications.	
ncomputing, atransaction is a sequence of discrete information exchanges that are treated as a unit.	
4.##Whatisastarschema?	
Astarschemaisadatabaseorganizationalstructureoptimized for useinadatawarehouseorbusinessintelligence	
Thatusesasinglelargefacttabletostoretransactionalormeasureddata, andoneormoresmallerdimensionaltablesthatstoreattributesaboutthe data	ta

5.##Whatisasnowflakeschema?

As nowflakes chemais a multi-dimensional data model that is an extension of a starschema, where dimension tables are broken down into subdimensions.

Snowflakeschemasarecommonlyusedforbusinessintelligenceand reportinginOLAPdatawarehouses, datamarts, and relational databases.

6.##Definefact-lessfact.

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.##Whatdoyouunderstandbydimensionalmodeling?

 $\label{lingDM} Data Dimensional Modelling (DDM) is a technique that uses \\ Dimensions and Facts to store the data in a Data Warehouse efficiently.$

Itoptimises 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.##Whatisadatamart?

Adatamartisastructure/accesspatternspecifictodata warehouseenvironments,usedtoretrieveclient-facingdata.

Data mart is a subset of the data warehouse and is usually oriented to a specific business line or team.