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1.##Whatisadatawarehouse?ListthetypesofDatawarehouse architectures.

Adatawarehousearchitectureisamethodofdefiningtheoverall architectureof Datacommunicationprocessingandpresentationthatexistforend-clients computingwithintheenterprise.

Eachdatawarehouseisdifferent, but all are characterized 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 data store.
3.##WhatdoesOLTPstandfor?

 $\label{lem:old_processing} OLTP (on line transaction processing) is a class of software programs capable of supporting transaction-oriented applications.$

Incomputing, at ransaction is a sequence of discrete information exchanges that are treated as a unit.

4.##Whatisastarschema?

Astarschemaisadatabaseorganizationalstructureoptimized for useinadatawarehouseorbusinessintelligence

Thatuses a single large fact table to store transactional or measured data, and one or more smaller dimensional tables that store attributes about the data.

5.##Whatisasnowflakeschema?

As now flakes 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?

DataDimensionalModelling(DDM)isatechniquethatuses DimensionsandFactstostorethedatainaDataWarehouseefficiently.

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.

 $\label{lem:decomposition} Data martis a subset of the data warehouse and is usually oriented to a specific business line or team.$