

39. What is the difference between ER Modeling and Dimensional Modeling?

ER modeling will have logical and physical model but Dimensional modeling will have only Physical model.

ER Modeling is used for normalizing the OLTP database design whereas Dimensional Modeling is used for de-normalizing the ROLAP and MOLAP design.

40. What are the steps to build the datawarehouse?

Following are the steps to be followed to build the datawarehouse:

- Gathering business requirements
- Identifying the necessary sources
- Identifying the facts
- Defining the dimensions
- Defining the attributes
- Redefine the dimensions and attributes if required
- Organize the Attribute hierarchy
- Define Relationships
- Assign unique Identifiers

41. What are the different types of datawarehousing?

Following are the different types of Datawarehousing:

- Enterprise Datawarehousing
- Operational Data Store
- Data Mart

42. What needs to be done while starting the database?

Following need to be done to start the database:

1. Start an Instance
2. Mount the database
3. Open the database

43. What needs to be done when the database is shutdown?

Following needs to be done when the database is shutdown:

1. Close the database
2. Dismount the database
3. Shutdown the Instance

44. Can we take backup when the database is opened?

No, We cannot take full backup when the database is opened.

45. What is defined as Partial Backup?

A Partial backup in an [operating system](#) is a backup short of full backup and it can be done while the database is opened or shutdown.

46. What is the goal of Optimizer?

The goal to Optimizer is to find the most efficient way to execute the SQL statements.

47. What is Execution Plan?

Execution Plan is a plan which is used to the optimizer to select the combination of the steps.

48. What are the approaches used by Optimizer during execution plan?

There are two approaches:

1. Rule Based
2. Cost Based

49. What are the tools available for ETL?

Following are the ETL tools available:

Informatica
Data Stage
Oracle
Warehouse Builder
Ab Initio
Data Junction

50. What is the difference between metadata and data dictionary?

Metadata is defined as data about the data. But, Data dictionary contain the information about the project information, graphs, abinitio commands and server information.