

# **Data Warehouse Concepts Interview Questions And Answers Guide.**



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# Data Warehouse Concepts Job Interview Preparation Guide.

## Question # 1

Explain Is OLAP databases are called decision support system true/false?

**Answer:-**

True

OLAP (online analytical processing) works by analysing aggregated data to give final reports to top management to take action/decisions on business which is same as DSS.(Decision support system)

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## Question # 2

What is cubes?

**Answer:-**

Cube is used in DWH for representing multidimensional data logically.

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## Question # 3

Where the applications and where ware house management system is used?

**Answer:-**

Data warehousing system is used in OLAP systems. Systems in which mainly the analysis of the data is needed. High level and Top executives use this system for analysis purpose so that they can make correct decisions that can boost the productivity of the org.

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## Question # 4

Hyperion is the one of the tool in data ware house. Its an olap tool. Why you cant display that tool?

**Answer:-**

Explain yourself

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## Question # 5

Explain What is fact less fact table? where you have used it in your project?

**Answer:-**

Fact less table means only the key available in the Fact there is no measures available.

Fact less fact table means it does not contain any facts(measures).It is used when we are integrating fact tables.

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## Question # 6

What is active data warehousing?

**Answer:-**

An active data warehouse provides information that enables decision-makers within an organization to manage customer relationships nimbly, efficiently and proactively. Active data warehousing is all about integrating advanced decision support with day-to-day-even minute-to-minute-decision making in a way that increases quality of those customer touches which encourages customer loyalty and thus secure an organization's bottom line. The marketplace is coming of age as we progress from first-generation "passive" decision-support systems to current- and next-generation "active" data warehouse implementations

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## Question # 7

What is the difference between ODS and OLTP?



### Answer:-

ODS:- It is nothing but a collection of tables created in the Data warehouse that maintains only current data.

Where as OLTP maintains the data only for transactions,these are designed for recording daily operations and transactions of a business.

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### Question # 8

Please explain in detail about

type 1,  
type 2(SCD),  
type 3?

### Answer:-

Type-1  
Most Recent Value  
Type-2(full History)  
i) Version Number  
ii) Flag  
iii) Date  
Type-3  
Current and one Previous value  
SCD'S slow change dimension  
there are three types  
scd1, scd2, scd3  
scd1:- suppose if the data got updated in the table then there r 2 methods one is to drop the table and upload the new one. but its along process.  
here by using table compression we can update the particular data that has been modified. that is scd1  
scd2:- by using key generation we r going to generate the new rownum column if there r any update the next row will be updated one and row numbers will be incremented automatically by 1  
scd3:- i this one a extra column is added and updated information is stored in that column. if again table is update another column is added to it again...  
in this one scd2 is mostly used..

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### Question # 9

What is the difference between datawarehouse and BI?

### Answer:-

Simply speaking, BI is the capability of analyzing the data of a datawarehouse in advantage of that business. A BI tool analyzes the data of a datawarehouse and to come into some business decision depending on the result of the analysis.  
Business Intelligence is a collection of broad category of application programs and techniques used to querying,retrieving,reporting and analyzing the business informations multidimensionally.  
Business Intelligence is a collection of application specifications which allow the client applications to retrieve business informations from the DataWare House in order to make some business decisions.

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### Question # 10

Explain What is the difference between OLAP and datawarehouse?

### Answer:-

Datawarehouse is the place where the data is stored for analyzing  
where as OLAP is the process of analyzing the data,managing aggregations,  
partitioning information into cubes for indepth visualization.  
ODS:- A collection of tables created in the Data warehouse that maintains only current data.  
OLTP:- Maintains the data only for transactions, these are designed for recording daily operations and transactions of a business.

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### Question # 11

Explain what is aggregate table and aggregate fact table ... any examples of both?

### Answer:-

Aggregate table contains summarized data. The materialized view are aggregated tables.  
for ex in sales we have only date transaction. if we want to create a report like sales by product per year. in such cases we aggregate the date values into week\_agg, month\_agg, quarter\_agg, year\_agg. to retrieve date from this tables we use @aggregate function.  
aggregate table is one of the data transaction function and some time it is create a protect per year.this aggregate value is week agg ,month agg quarter agg function

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### Question # 12

Explain What are non-additive facts in detail?

### Answer:-

A fact may be measure, metric or a dollar value. Measure and metric are non additive facts.  
Dollar value is additive fact. If we want to find out the amount for a particular place for a particular period of time, we can add the dollar amounts and come up with the total amount.  
A non additive fact, for eg measure height(s) for 'citizens by geographical location', when we rollup 'city' data to 'state' level data we should not add heights of the citizens rather we may want to use it to derive 'count'  
which cant be summed up with any columns in the table(all dimension keys)  
EX: ratio columns,profit margin



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### Question # 13

Explain Why Denormalization is promoted in Universe Designing?

**Answer:-**

In a relational data model, for normalization purposes, some lookup tables are not merged as a single table. In a dimensional data modeling (star schema), these tables would be merged as a single table called DIMENSION table for performance and slicing data. Due to this merging of tables into one large Dimension table, it comes out of complex intermediate joins. Dimension tables are directly joined to Fact tables. Though, redundancy of data occurs in DIMENSION table, size of DIMENSION table is 15% only when compared to FACT table. So only Denormalization is promoted in Universe Designing.

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### Question # 14

What is snapshot?

**Answer:-**

You can disconnect the report from the catalog to which it is attached by saving the report with a snapshot of the data. However, you must reconnect to the catalog if you want to refresh the data.

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### Question # 15

Explain What is the difference between datawarehouse and BI?

**Answer:-**

Simply speaking, BI is the capability of analyzing the data of a datawarehouse in advantage of that business. A BI tool analyzes the data of a datawarehouse and to come into some business decision depending on the result of the analysis.

Ware House Mangement is So Important in the Large number of Data's Handling Part. For Ex. In Ms. Access, we can store 100 Thousand data Consistently and can be retrieved. Same like Each and Every DB having them Own Speciality. From various DB number Columns like more than 200 Column, Data Retrieve is not so easy through SQL & PL&SQL. Lots lines should write. In this case to maintain the data the DWH is So important. Especialy for Banking, Insurance, Telecom, Business etc.

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### Question # 16

What is the difference between Datawarehousing and BusinessIntelligence?

**Answer:-**

Data warehousing deals with all aspects of managing the development, implementation and operation of a data warehouse or data mart including meta data management, data acquisition, data cleansing, data transformation, storage management, data distribution, data archiving, operational reporting, analytical reporting, security management, backup/recovery planning, etc. Business intelligence, on the other hand, is a set of software tools that enable an organization to analyze measurable aspects of their business such as sales performance, profitability, operational efficiency, effectiveness of marketing campaigns, market penetration among certain customer groups, cost trends, anomalies and exceptions, etc. Typically, the term 'business intelligence' is used to encompass OLAP, data visualization, data mining and query/reporting tools. Think of the data warehouse as the back office and business intelligence as the entire business including the back office. The business needs the back office on which to function, but the back office without a business to support, makes no sense.

As explained, Data warehouse contains the data or data mart which final product of all the process like meta data management, acquire, data cleansing, transformation and load other process as mentioned above. Business intelligence are set of software which connects to data mart to do various reporting useful for the business or good running of the company. All the business decision are taken based on the data warehousing reporting. Hope this make sense.

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