Course:Data Ware housing and Multidimensional Modeling
Course Code : CSBA3002
Programme : B.Tech CSE-BAO

Semester : IV
Time :2 Hours
Max. Marks :100

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Preview Test: End Term Examination- CSBA3002 Data Warehousing & Multidim. Modeling

Test Information

Description

End Term Examination 2019-2020

Date: July 12, 2020 **Time: 2:00PM**

Course Code: CSBA3002

Course Name: Data Warehousing and Multidimensional Modeling

Program: BTECH CSE-BAO

Maximum Marks: 100

Duration: 2 hours

Instructions Note: 1. All questions are compulsory.

2. Marks are indicated against the questions.

Timed Test This test has a time limit of 2 hours and 10 minutes.This test will save and be submitted automatically when the time expires.
Warnings appear when **half the time**, **5 minutes**, **1 minute**, and **30 seconds** remain.*[The timer does not appear when previewing this test]*

Multiple Attempts Not allowed. This Test can only be taken once.

Force Completion This Test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test.

Question Completion Status:

QUESTION 1 **1.5 points** Answer

_____operation of OLAP involves computing all of the data relationships for one or more dimensions

- Slice
- Roll up
- Dice
- Pivot

QUESTION 2

Data mart has_____level of granularity

- low
-
-
-

gh
All

1 points Save Answer

QUESTION 3

1.5 points Save Answer

The IBM Cognos Business Intelligence data tier contains_____
Content Store
Data Sources
Metric Store
All of the above

QUESTION 4

1 points Save Answer

Data models of source system is an example of technical meta data.

- TRUE
- FALSE

QUESTION 5 **1.5 points** Save Answer

A_____represents the highest consolidation level in the database outline.

- dimension
- fact
- row
- member

QUESTION 6 **1.5 points** Save Answer

Multidimensional data presentation can be visualized as_____

- Data Cube
- fact table
- Space Time tree
- Scatter diagram

QUESTION 7 **1.5 points** Save Answer

Every key used to join the fact table with a dimensional table should be a _____

- Primary key
- Surrogate key
- Storage Key
- None of the above

QUESTION 8 **1 points** Save Answer

Attribute data are normalized by data cleaning routines.

- TRUE
- FALSE

QUESTION 9 **1.5 points** Save Answer

_____is not related to dimension table attributes

- Verbose
- Descriptive
- Indexed.
- Equally unavailable

QUESTION 10 **1.5 points** Save Answer

A star schema has what type of relationship between a dimension and fact table

- Many to many
- one to many
- one to one
- All of the above.

QUESTION 11 **1.5 points** Save Answer

We can build aggregations from the_____by changing the granularity on specific dimensions.

- schema
- Dimension table
- Fact table
- all of the above

QUESTION 12 **1 points** Save Answer

The data Warehouse is_____.

- ◯ Read Only
- ◯ Write Only
- ◯ Read and Write Only
- ◯ None

QUESTION 13 **1.5 points** Save Answer

MOLAP architecture consists of the_____

- ◯ Database server
- ◯ MOLAP server
- ◯ Front end tool
- ◯ All of the above

QUESTION 14 **1.5 points** Save Answer

We can define sparsity as_____

- ◯ A condition when each cell of the cube is filled with data and that leads to more processing time.
- ◯ A condition when each cell of the cube is not filled with data and that leads to less processing time.
- ◯ A condition when each cell of the cube is not filled with data and that leads to more processing time.
- ◯ A condition when each cell of the cube is not filled with data.

QUESTION 15 **1 points** Save Answer

The classic star schema model is always in 3rd normal form.

- ◯ TRUE
- ◯ FALSE

QUESTION 16 **1.5 points** Save Answer

The following is not cubing services core component

- ◯ Design Studio
- ◯ SQL Server
- ◯ Cube Server
- ◯ Administration Console

QUESTION 17 **1.5 points** Save Answer

_____layer materializes operational data obtained afterintegrating and cleansing source data

- ☐ reconciled layer
- ☐ Source layer
- ☐ Data warehouse layer
- ☐ None of the above

QUESTION 18 **1.5 points** Save Answer

Data marts that incorporate data mining tools to extract sets of data are called_____.

- ◯ Independent data mart
- ◯ Dependent data marts
- ◯ Intra-entry data mart.
- ◯ Inter entry data mart.

QUESTION 19 **1.5 points** Save Answer

Data Warehouse_____is designed to provide a multidimensional view of data stored in a relational database.

- ◯ multidimensional Indexing
- ◯ Cubing Services
- ◯ multidimensional storage
- ◯ multidimensional mining

QUESTION 20 **1.5 points** Save Answer

The_____generates results that show the aggregates for a hierarchy of values in the selected dimensions

- Cube
- Rollup
- Grouping sets
- all of the above

QUESTION 21 **1 points** Save Answer

_____is the IBM Cognos BI service that manages the storage of customer application data.

- dispatcher
- Content Manager
- Web server
- Gateway

QUESTION 22 **1.5 points** Save Answer

Data ware house has_____level of granularity

- medium
- high
- high and low
- low

QUESTION 23 **1.5 points** Save Answer

High level of detail indicates_____level of granularity

- medium
- high
- high and low
- low

QUESTION 24 **1.5 points** Save Answer

_____is denormalized large data bases.

- OLAP
- OLATP
- RDBMS
- None of the above

QUESTION 25 **1.5 points** Save Answer

The_____Optimization Advisor enables high performance for large cubes.

- Congno
- storage
- Cubing Services
- Data warehouse server

QUESTION 26 **1 points** Save Answer

HOLAP can't perform dynamic data analysis.

- FALSE
- TRUE

QUESTION 27 **1 points** Save Answer

The_____starts all IBM Cognos services configured and enabled on a computer.

- dispatcher
- Web server
- Content Manager
- All of the above

QUESTION 28 **1.5 points** Save Answer

Data warehouse contains----------data that is never found in the operational environment.

a. Normalized

b. Informational

c. Summary

d. Technology environment

QUESTION 29 **1.5 points** Save Answer

The_____operation enables OLAP to achieve great performance for a query.

Dice

Hybrid

Composition

Aggregation

QUESTION 30 **1.5 points** Save Answer

An OLAP query output is presented as a_____

Matrix

Pivot

Excel

Both a and b

QUESTION 31 **1.5 points** Save Answer

"The_____is responsible for all data storage, access, and retrieval processes in MOLAP."

network layer

presentation layer

database layer

application logic layer

QUESTION 32 **1.5 points** Save Answer

_____is created to facilitate management of both spatial and non-spatial data

ROLAP

MOLAP

SOLAP

WOLAP

QUESTION 33 **1 points** Save Answer

Star join method may be chosen as join method when snowflake schema is chosen

TRUE

FALSE

QUESTION 34 **1.5 points** Save Answer

The_____is most complex schema of Data Ware house.

star schema

star schema

semantic net

Fact Constillation

QUESTION 35 **1.5 points** Save Answer

Which of the following suits best for Data Warehouse

DW is updated by end user

it has different formats and naming contentions

it has different formats and naming contentions

It is subject dependent

QUESTION 36 1.5 points Save Answer

Incorrect or invalid data is known as_____.

- Changing data
- Noisy data.
- Outliers
- Missing data

QUESTION 37 1.5 points Save Answer

The Cogno BI applications tier contains one or more IBM Cognos_____

- Web server
- BI servers
- Web Gateway
- All of the above

QUESTION 38 1 points Save Answer

Snow flake schema provides small savings in storage space .

- TRUE
- FALSE

QUESTION 39 1.5 points Save Answer

Server level security is_____in cubing services.

- user based
- role based
- web based
- network based

QUESTION 40 1 points Save Answer

HOLAP implies that largest amount of data should be stored in ROLAP to avoid the problem caused by sparsity.

- TRUE
- FALSE

QUESTION 41 1.5 points Save Answer

The following_____statements is true

- A fact table describes the transactions stored in a DWH
- A fact table describes the granularity of data held in a data cube
- The fact table of a data warehouse is the main store of descriptions of the transactions stored in a DWH
- The fact table of a data warehouse is the main store of all of the recorded transactions over time

QUESTION 42 1.5 points Save Answer

"The Cubing Services Cube Server is a high performance, scalable cubing_____that is designed to support queries from many users against many different OLAP cubes."

- data warehouse
- engine
- database
- storage

QUESTION 43 1.5 points Save Answer

Metadata contains atleast_____.

- a. The structure of the data
- b. The algorithms used for summarization
- c. The mapping from the operational environment to the data warehouse.
- d. All of the above

QUESTION 44 1.5 points Save Answer

builds indexed views to store the data summaries in those views in the relational database

- MOLAP
- WOLAP
- ROLAP
- SOLAP

QUESTION 45 1.5 points Save Answer

The_____is data modeling techniqu for data marts.

- Logical model
- Dimensional modeling
- ER model
- Physical model

QUESTION 46 1.5 points Save Answer

_____has high level of granularity

- RDBMS
- Cube
- OLAP Server
- Data marts

QUESTION 47 1.5 points Save Answer

_____is a mixture of MOLAP and ROLAP technologies

- ROLAP
- MOLAP
- SOLAP
- HOLAP

QUESTION 48 1.5 points Save Answer

_____is the core of the warehouse

- Data mining database servers.
- Data warehouse database servers.
- Data mart database servers
- Relational data base servers.

QUESTION 49 1.5 points Save Answer

Fact table contains_____for dimension table

- super key
- candidate key
- foreign key
- minimal super key

QUESTION 50 1 points Save Answer

"Unlike the requirements for an operational system, the requirements for a data ware house are quite nebulous"

- TRUE
- FALSE

QUESTION 51 1.5 points Save Answer

Which of the following is not a component of a data warehouse?

- a. Metadata
- b. Current detail data.
- c. Lightly summarized data.
- d. Component Key.

QUESTION 52 1.5 points Save Answer

All_____are processed before the central part of a star join, as individual query blocks, and they are materialized into work files.

- fact tables
- dimension tables
- snowflakes
- Star Schemas

QUESTION 53 1.5 points Save Answer

Concept hierarchy is a mapping of _____

- high to low level of concepts
- low to high level of concept
- low to mid level of concept
- none of these

QUESTION 54 1.5 points Save Answer

The_____process determines if a user has the required privileges to access a specific cube or dimension member.

- authentication
- authorization
- login
- all of the above

QUESTION 55 1 points Save Answer

"_____provides IBM Cognos BI with a consistent set of security capabilities and APIs, including user authentication, authorization, and encryption."

- Access Manager
- Content Manager
- Web server
- Gateway

QUESTION 56 1.5 points Save Answer

"In star join processing,DB2 joins dimension tables to the_____according to a multi-column index that is defined on the fact table."

- fact table
- dimension table
- summary table
- relational table

QUESTION 57 1 points Save Answer

The essential difference between ROLAP and MOLAP is the way data is stored.

- TRUE
- FALSE

QUESTION 58 1 points Save Answer

IBM Cognos is an integrated_____suite that provides a wide range of functionality to help for understanding our organization's data.

- Computer Newtork
- Business intelligence
- Text Mining
- Web mining

QUESTION 59 1.5 points Save Answer

A_____dimension is one with a low percentage of available data positions filled.

- dense
- sparse
- fact
- hybrid

QUESTION 60 1.5 points

_____is not Web-based interface of IBM Cognos.

- Cognos Connection
- Cognos Administration
- Cognos Query Studio
- Cognos Framework Manager

QUESTION 61 1 points

Business data is flat in nature.

- TRUE
- FALSE

QUESTION 62 1 points

"Normally, data flows from the data ware house repository to the data staging area"

- TRUE
- FALSE

QUESTION 63 1 points

ROLAP can't support parallel processing because of partitioning of data.

- TRUE
- FALSE

QUESTION 64 1.5 points

"In a dimensional model, which of the following is a useful attribute in the Date dimension"

- Week
- Quarter
- Month
- All of the above.

QUESTION 65 1.5 points

Cube object-level security is_____in cubing services.

- user based
- role based
- web based
- network based

QUESTION 66 1 points

Snow flake schema enhance query processing.

- TRUE
- FALSE

QUESTION 67 1 points

_____is IBM Cognos BI Web gateway.

- ISAPI
- ISS
- WWW
- GIS

QUESTION 68 1.5 points

Warehouse architect is trying to determine what data must be included in the warehouse. A meeting has been arranged with a business analyst to understand the data requirements, which of the following should be included in the agenda.

- Number of users
- Corporate objectives

Database design

Routine reporting

QUESTION 69 1.5 points Save Answer

The biggest drawback of the level indicator in the classic star-schema is that it limits_____.

quantify
qualify
ability
flexibility

QUESTION 70 1.5 points Save Answer

Which of the following are the major conerns in designing OLTP systems

Performance
Efficiency of data analysis
Efficiency of data aggregation
None of these

QUESTION 71 1 points Save Answer

"The_____is a relational database that contains data that Cognos BI product needs to operate, such as report specifications, published models, and the packages."

Content Store
Data Sources
Metric Store
RDBMS

QUESTION 72 1 points Save Answer

The architectural framework enables the flow of data from the data sources at one end to the user's desktop at the other.

TRUE
FALSE

QUESTION 73 1 points Save Answer

"In hub and spoke architecture, a centralized enterprise data ware house is present."

TRUE
FALSE

QUESTION 74 1 points Save Answer

Data transformation denormalize extracted data structures as required by the dimensional model of the data ware house.

FALSE
TRUE

QUESTION 75 1 points Save Answer

Dimension oriented design technique reduces query efficiency.

TRUE
FALSE

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers Save and Submit