

Professional Online Academy Vu Topper RM



CS614-Data Warehousing Update MCQ'S Mid Term By Vu Topper RM



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Question No:1

(Marks:1)

Vu-Topper RM

A _____ is a natural business activity in the organization supported by a legacy source data-collection system (database or OLTP).

- A. Process**
- B. Table
- C. Grains
- D. Facts

Question No:2

(Marks:1)

Vu-Topper RM

ROLAP tools will query the relational database using SQL generated to conform to a framework using the facts and dimensions paradigm using the _____.

- A. OLAP
- B. Relational Schema
- C. Snowflake schema
- D. Star schema**

Question No:3

(Marks:1)

Vu-Topper RM

Web scrapping is a process of applying _____ techniques to the web.

- A. Meta Scrapping
- B. Data Scrapping
- A. C. Screen Scrapping**
- C. Text Scrapping

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Question No:4

(Marks:1)

Vu-Topper RM

_____ should not be present in a relation, so that it would be in second normal form (2NF).

- A. Partial dependency**
- B. Transitive dependency
- C. Multivalued dependency
- D. Full-functional dependency

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Question No:5

(Marks:1)

Vu-Topper RM

Relational databases allow you to navigate the data in _____ that is appropriate using the primary, foreign key structure within the data model.

- A. Two Direction
- B. Forward Direction
- C. Only One Direction

D. Any Direction

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Question No:6

(Marks:1)

Vu-Topper RM

Which one among the following data warehouses stores data containing long period?

- A. Telecommunication data warehouse
- B. Financial data warehouse

C. Insurance data warehouse

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D. Human resource data warehouse

Question No:7

(Marks:1)

Vu-Topper RM

One goal of horizontal splitting is spreading rows of a table for exploiting _____.

- A. Sequentialism
- B. Randomness
- C. All of the given options

D. Parallelism

Question No:8

(Marks:1)

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The last step of Software Development Life Cycle (SDLC) is implementation, while that of data warehouse is:

- A. Analysis
- B. Testing
- C. Understanding requirements

D. Integration

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Question No:9

(Marks:1)

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In the data warehouse environment the data is _____

- A. Subject- oriented** **Page 69**
- B. Time- oriented
- C. Both subject and time oriented
- D. Neither time-oriented nor subject- oriented

Question No:10

(Marks:1)

Vu-Topper RM

De-normalization is more like a “controlled crash” with the aim to _____ performance without loss of information.

- A. Enhance** **Page 49**
- B. Check
- C. Balance
- D. Decrease

Question No:11

(Marks:1)

Vu-Topper RM

The end users of a data warehouse are _____.

- A. Database developers
- B. Business executives**
- C. Programmers
- D. Data entry operators

Question No:12

(Marks:1)

Vu-Topper RM

Consider the following Student table and identify the column which causes that the table is not in first normal form (1NF).

Student (Std_ID, Std_Name, Std_CGPA, Std_Hobbies)

- A. Std_Name
- B. Std_CGPA
- C. Std_Hobbies**
- D. Std_ID

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Question No:13

(Marks:1)

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The relation R will be in 2nd Normal Form if

- A. It is in 1NF and each non key attribute is dependent upon a single column of composite primary key.
- B. It is in 1NF and each cell contains single value.
- C. It is in 1NF and each non key attribute is dependent upon entire primary key.**
- D. It is in 1NF and Primary key is composite

Question No:14

(Marks:1)

Vu-Topper RM

Consider the following Employee table and identify the column which causes that the table is not in first normal form (1NF).

Employee(Emp_ID , Emp_Name , Emp_skills , Emp_Designation)

- A. Emp_Designation
- B. Emp_ID
- C. Emp_Name
- D. Emp_skills**

Question No:15

(Marks:1)

Vu-Topper RM

Suppose in a system A, the values of "PhoneNo" attribute were stored in "countrycode-phone-extension" format, however after transformation into data warehouse the separate columns were used for "countrycode", "phone" and "extension". The above scenario is an example of :

- A. One-to-one scalar transformation
- B. One-to-many element transformation**
- C. Many-to-one element transformation
- D. Many-to-many element transformation

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Question No:16

(Marks:1)

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The data coming from outside the organization owning the DWH can have even _____ quality data i.e. different representation for same entity, transcription or typographical errors.

- A. Medium
- B. Lower**
- C. Average
- D. Higher

Question No:17

(Marks:1)

Vu-Topper RM

Data is the “_____” on which a Data Warehouse (DWH) runs.

- A. Element
- B. Fuel**
- C. Entity
- D. Component

Question No:18

(Marks:1)

Vu-Topper RM

One feature of Change Data Capture (CDC) is that:

- A. It pre-calculates changed aggregates
- B. It loads the transformed data in real time
- C. It only processes the data has been changed
- D. It can automate the transformation of extracted data Page 149**

Question No:19

(Marks:1)

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_____ is much more than simply updating a record with good data.

- A. Data reduction
- B. Data cleansing**
- C. Data duplication
- D. Data transformation

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Question No:20

(Marks:1)

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Assume a company with a multi-million row customer table i.e. n rows. Checking for Referential Integrity (RI) using a naive approach would take _____ time.

- A. O(n) Page 160**
- B. O(1)
- C. O(log n)
- D. None of the given

Question No:21

(Marks:1)

Vu-Topper RM

_____ is the degree to which data accurately reflects the real-world object that the data represents.

- A. Weak Data Quality
- B. Strong Data Quality
- C. Realistic Data Quality
- D. Intrinsic Data Quality Page 181**

Question No:22

(Marks:1)

Vu-Topper RM

The _____ task is typically performed after most other transformation and cleaning steps have taken place.

- A. Data loading
- B. Data extraction
- C. Data transformation
- D. Data Duplicate elimination Page 165**

Question No:23

(Marks:1)

Vu-Topper RM

The degree of similarity measured _____, different attributes may contribute differently.

- A. Qualitative
- B. Numerically Page 169**
- C. Quantitative
- D. None of the given

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Question No:24

(Marks:1)

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One of the main reasons for the failure of DWH deployments is

A. Data quality

Page 179

B. Data anomaly

C. Data integrity

D. Data duplication

Question No:25

(Marks:1)

Vu-Topper RM

If a product meets formally defined "requirement specifications," yet fails to be a quality product from the customers' perspective, this means the requirements were_____.

A. Unclear

B. Defective

Page 180

C. Unrefined

D. Undefined

Question No:26

(Marks:1)

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Time Complexity of Basic Sorted Neighborhood (BSN) Method is

A. $O(n)$

B. $O(2n)$

C. $O(n \log n)$

D. $O(\log n)$

Question No:27

(Marks:1)

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Which is not a/an distance Function in Basic Sorted Neighborhood (BSN) Method?

A. Typewriter distance

B. Phonetic distance

C. Edit Distance

D. Matrix distance

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Question No:28

(Marks:1)

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Decision support system (DSS) is a/an _____.

- A. Interactive system which enable decision makers to use databases and solve un-structured problems**
- B. Single database of an organization
- C. Decision tree where each node represent a decision
- D. Collection of relational database management systems

Question No:29

(Marks:1)

Vu-Topper RM

De-normalization may be in the form of, combining tables, adding data or _____.

- A. Duplicating tables**
- B. Splitting tables
- C. Sharing tables
- D. Deleting tables

Question No:30

(Marks:1)

Vu-Topper RM

Which one is the characteristic of data warehouse queries?

- A. Return very few rows
- B. High selectivity**
- C. Use multiple tables
- D. Use primary keys

Question No:31

(Marks:1)

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_____ are created out from the data warehouse to service different needs of departments in the organization.

- A. MIS
- B. Tables
- C. Databases
- D. Data marts**

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Question No:32

(Marks:1)

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_____ should not be present in a relation, so that it would be in third normal form (3NF).

- A. Transitive dependency
- B. Multivalued dependency
- C. Partial dependency**
- D. Full-functional dependency

Question No:33

(Marks:1)

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Which one among the following is a de-normalization technique?

- A. Adding redundant columns**
- B. Star schema
- C. OLTP
- D. ER modeling

Question No:34

(Marks:1)

Vu-Topper RM

Which one is NOT the characteristic of data warehouse queries?

- A. Return huge amount of rows
- B. Use multiple tables
- C. Low selectivity**
- D. Use primary keys

Question No:35

(Marks:1)

Vu-Topper RM

The response times of OLTP queries are in milliseconds to seconds, while that of data warehouse queries are in:

- A. Days to weeks
- B. Hours to days
- C. Minutes to hours**
- D. Milliseconds to microseconds

Question No:36

(Marks:1)

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In which class of aggregates Max function can be placed?

- A. Holistic

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B. Algebraic

C. Distributive

D. Associative

Question No:37

(Marks:1)

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In Extract, Load, Transformation (ELT) process, you don't need to purchase extra devices to achieve parallelism because:

A. You already have parallel data warehouse servers

B. You have already performed transformation

C. You have already performed Loading

D. ELT does not support parallelism

Question No:38

(Marks:1)

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Which is not a class of aggregation functions?

A. Distributive

B. Algebraic

C. Associative

D. Holistic

Question No:39

(Marks:1)

Vu-Topper RM

Depending on the data requirements of the warehouse, both summarization and aggregation can be deployed during_____.

A. Data loading

B. Data Cleansing

C. Data extraction

D. Data transformation

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Question No:40

(Marks:1)

Vu-Topper RM

In which class of aggregates AVERAGE function can be placed?

A. Algebraic **Page 120**

B. Distributed

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- C. Associative
- D. Holistic

Question No:41 (Marks:1) **Vu-Topper RM**
The most common use of range partitioning is on_____.

- A. Date** **Page 66**
- B. Name
- C. Color
- D. PhoneNo

Question No:42 (Marks:1) **Vu-Topper RM**
OLAP is:

- A. Physical database design
- B. None of the given options**
- C. Framework
- D. Implementation technique

Question No:43 (Marks:1) **Vu-Topper RM**
The _____ technique is a discipline used to highlight the microscopic relationships among data elements or entities.

- A. DM Modeling
- B. ER modelling** **Page 99**
- C. Relational Modeling
- D. Multi-dimensional Modeling

Question No:44 (Marks:1) **Vu-Topper RM**
_____ does not have "business rules," it has "data rules. "

- A. ER modelling** **Page 102**
- B. OLAP

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- C. DM modeling
- D. Multi-dimensional Modeling

Question No:45 (Marks:1) **Vu-Topper RM**

Which one among the following is not an advantage of horizontal splitting??

- A. Fast data retrieval** Page 55
- B. Enhance security
- C. Increase I/O Overhead
- D. Organize tables for different queries

Question No:46 (Marks:1) **Vu-Topper RM**

_____ segregates data into separate partitions so that queries do not need to examine all data in the table.

- A. Pre-joining technique
- B. Vertical splitting technique
- C. Collapsing tables technique
- D. Horizontal splitting technique** Page 55

Question No:47 (Marks:1) **Vu-Topper RM**

Time variant is a characteristic of data warehouse which means:

- A. Data cannot be loaded in data warehouse with respect to time
- B. Data can be loaded in data warehouse anytime
- C. Data can be loaded in data warehouse only at a particular time
- D. Data loaded in data warehouse will be time stamped**

Question No:48 (Marks:1) **Vu-Topper RM**

For good decision making, one should be able to integrate data across the organization to give the _____ of organization.

- A. Total view**

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- B. Brief view
- C. Undermine view
- D. Partial view

Question No:49

(Marks:1)

Vu-Topper RM

History is excellent predictor of the _____.

- A. History
- B. Present
- C. Past

D. Future

Page 15

Question No:50

(Marks:1)

Vu-Topper RM

Identify data warehouse query from the following:

- A. List of students belong to Lahore city
- B. Number of students studying CS614 course
- C. Total number of students that have 3.5 CGPA

D. Factors which can affect students' performance

Question No:51

(Marks:1)

Vu-Topper RM

When building a fact table in dimension modeling, the most important step is to declare the _____ (aggregation level) of the fact table.

A. Grain Page 117

- B. Fact
- C. Dimensions
- D. Cube

Question No:52

(Marks:1)

Vu-Topper RM

Pre-joining de-normalization technique is generally used when there is _____ relationship between two or more tables.

A. One to many Page 57

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- B. Many to one
- C. One to one
- D. Many to many

Question No:53

(Marks:1)

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_____ is the lowest level of detail or the atomic level of data stored in the warehouse.

A. Grain Page 111

- B. Fact
- C. Dimensions
- D. Cube

Question No:54

(Marks:1)

Vu-Topper RM

Non uniform use of abbreviations, units and values refers to:

A. Syntactically dirty data Page 160

- B. Coverage anomaly
- C. Semantically dirty data
- D. Extraction issue

Question No:55

(Marks:1)

Vu-Topper RM

Relational modeling techniques are used to develop _____ systems.

- A. ROLAP
- B. OLAP
- C. MOLAP

D. OLTP Page 98

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Question No:56

(Marks:1)

Vu-Topper RM

Online Extraction is a kind of _____ data extraction.

- A. Logical
- B. Dimensional
- C. Physical**
- D. Multi valued

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Question No:57

(Marks:1)

Vu-Topper RM

The _____ saw the advent of disk storage, or DASD (Direct Access Storage Device).

- A. 1960s
- B. 1970s**
- C. 1950s
- D. 1990s

Page 13

Question No:58

(Marks:1)

Vu-Topper RM

In context of data warehouse, normally it becomes difficult to extract data from different sources because these sources are normally:

- A. Heterogeneous**
- B. Homogeneous
- C. Centralized
- D. Baseline

Page 140

Question No:59

(Marks:1)

Vu-Topper RM

Which of the following is not a task of Data Transformation?

- A. Conversion
- B. Summarization
- C. Enrichment

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D. Full Data Refresh Page 135

Question No:60

(Marks:1)

Vu-Topper RM

Flat files are one of the prevalent structures used in _____ data extraction.

A. Online

B. Offline Page 134

C. Incremental

D. Full

Question No:61

(Marks:1)

Vu-Topper RM

Which of the following is NOT one of the advantages of changed data capture (CDC) technique?

A. Flat files are not required

B. Limited query interface is required for data extraction

Page 152

C. No incremental on-line I/O required for log tape

D. Extraction of changed data occurs immediately

Question No:62

(Marks:1)

Vu-Topper RM

A relation is said to be in first normal form (1NF), if it does not contain _____.

A. Single value column

B. Multi-valued column Page 43

C. Derived column

D. Composite column

Question No:63

(Marks:1)

Vu-Topper RM

In a fully normalized database, too many _____ are required.

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A. Values

B. Joins

Page 49

C. Queries

D. Conditions

Question No:64

(Marks:1)

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In the data warehouse, data is collected from _____ sources.

A. Homogeneous

B. Heterogeneous

Page 21

C. External

D. Internal

Question No:65

(Marks:1)

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_____ is making all efforts to increase effectiveness and efficiency in meeting accepted customer expectations.

A. Quality assurance

B. Quality improvement

Page 183

C. Quality maintenance

D. Quality Establishment

Question No:66

(Marks:1)

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_____ is the application of intelligence and experience to get common goals.

A. Wisdom

Page 11

B. Education

C. Power

D. Information

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Question No:67

(Marks:1)

Vu-Topper RM

Grain of a fact table means:

- A. The meaning of one fact table row** Page 109
- B. The meaning of one dimensional table row
- C. Summary of aggregates in all fact tables
- D. Summary of aggregates in all dimension tables

Question No:68

(Marks:1)

Vu-Topper RM

Which of the following is NOT an example of a typical grain?

- A. Individual transaction
- B. Daily aggregates
- C. Monthly aggregates
- D. Normalized attributes** Page 111

Question No:69

(Marks:1)

Vu-Topper RM

Multi-dimensional databases (MDDs) typically use _____ formats to store pre-summarized cube structures.

- A. SQL
- B. Proprietary file** Page 79
- C. Object oriented
- D. Non-proprietary file

Question No:70

(Marks:1)

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_____ provides a combination of “relational database access” and “cube” data structures within a single framework.

- A. HOLAP** Page 78
- B. DOLAP
- C. MOLAP
- D. ROLAP

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Question No:71

(Marks:1)

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Data Warehouse provides the best support for analysis while OLAP carries out the _____ task.

- A. Mandatory
- B. Whole
- C. Analysis**
- D. Prediction

Page 69

Question No:72

(Marks:1)

Vu-Topper RM

_____ involves splitting a table by columns so that a group of columns is placed into the new table and the remaining columns are placed in another new table.

- A. Vertical splitting**
- B. Horizontal splitting
- C. Adding redundant column
- D. None of the given option

Page 56

Question No:73

(Marks:1)

Vu-Topper RM

OLAP implementations are highly/completely _____

- A. Normalized
- B. Demoralized**
- C. Predictive
- D. Additive

Page 69

Question No:74

(Marks:1)

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If each cell of Relation R contains a single value (no repeating values) then it is confirmed that

- A. Relation R is in 1st Normal Form**

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- B. Relation R is in 2nd Normal Form
- C. Relation R is in 3rd Normal Form
- D. Relation R is in 3rd Normal Form but not in 2nd Normal Form

Question No:75 (Marks:1) **Vu-Topper RM**

Which kind of relationships is captured by Fact less fact table?

- A. Many- to- Many** **Page 121**
- B. One-to-many
- C. One-to-one
- D. None of the given option

Question No:76 (Marks:1) **Vu-Topper RM**

Which of the following is not an example of dimension?

- A. ATM card no
- B. Sales amount** **Page 78**
- C. ATM_Location
- D. Time/Date

Question No:77 (Marks:1) **Vu-Topper RM**

There are often multiple ways to represent the same piece of information. “FAST”, “National University”, “FAST NU” and “Nat. Univ. of Computers “. This problem is known as _____.

- A. Non primary key problems** **Page 136**
- B. Primary key problems
- C. Simple key problem
- D. Composite key problem

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Question No:78

(Marks:1)

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Which people criticize Dimensional Modeling (DM) as being a data mart oriented approach?

- A. Those that consider Business processes as Data marts Page 110**
- B. Those that consider Data marts as Data warehouse
- C. Those that consider dimensional model
- D. Those that consider dimensional modelling as de-normalization approach

Question No:79

(Marks:1)

Vu-Topper RM

Which of the following is an example of Non-Additive Facts?

- A. Quality sold
- B. Total sale in Rs.
- C. Discount in percentage Page 119**
- D. Count of orders in a store

Question No:80

(Marks:1)

Vu-Topper RM

Which of the following is not a CUBE operation?

- A. ANSI SQL Page 81**
- B. Roll Up
- C. Drill Down
- D. Pivoting

Question No:81

(Marks:1)

Vu-Topper RM

_____ allows download of “cube” structures to a desktop platform without the need for shared relational or cube server.

- A. MPLAP
- B. ROLAP
- C. DOLAP Page 78**

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D. HOLAP

Question No:82

(Marks:1)

Vu-Topper RM

ROLAP provides access to information via a relational database using:

A. ANSI standard SQL Page 78

B. Proprietary file format

C. Comma Separated Values

D. All of the given option

Question No:83

(Marks:1)

Vu-Topper RM

_____ is usually deployed when expressions can be used to group data together in such a way that access can be targeted to a small set of partitions for a significant portion of the DW workload.

A. Expression elimination

B. Expression partitioning Page 67

C. Expression indexing

D. None of the given option

Question No:84

(Marks:1)

Vu-Topper RM

Which of the following is one of the methods to simplify an ER model?

A. Normalization

B. Denormalization Page 103

C. HOLAP

D. Hybrid schema

Question No:85

(Marks:1)

Vu-Topper RM

In ETL process data transformation includes _____

A. Data cleansing Page 129

B. Data aggregation

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- C. Behavior checking
- D. Pattern recognition

Question No:86 (Marks:1) **Vu-Topper RM**

Suppose the size of the attribute “Computerized National Identity Card (CNIC) no” is changed in NADRA database. This transformation refers to:

- A. Format revision** **Page 153**
- B. Field splitting
- C. Field decoding
- D. Calculation of derived value

Question No:87 (Marks:1) **Vu-Topper RM**

The divide and conquer cube partitioning approach helps alleviate the _____ limitations of MOLAP implementation.

- A. Flexibility
- B. Maintainability
- C. Security
- D. Scalability** **Page 85**

Question No:88 (Marks:1) **Vu-Topper RM**

Identify the TRUE statement(s) regarding Dimensional Modeling (DM):

- A. DM is inherently dimensional in nature
- B. DM comprises of a single central fact table
- C. DM comprises of a set of dimensional tables
- D. All of the given option** **Page 103**

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Question No:89

(Marks:1)

Vu-Topper RM

_____ can be used when some columns are rarely accessed rather than other columns or when the table has wide rows or header or both.

- A. Horizontal splitting
- B. Pre-joining
- C. Vertical splitting**
- D. Derived attributes

Page 56

Question No:90

(Marks:1)

Vu-Topper RM

Which of the following is an example of derived attribute?

- A. Age**
- B. Size
- C. Color
- D. Length

Page 61

Question No:91

(Marks:1)

Vu-Topper RM

The online high performance transaction processing was evolved in

- A. 1980
- B. 1975**
- C. 1977
- D. 1965

Page 12

Question No:92

(Marks:1)

Vu-Topper RM

Cube is a logical entity containing values of a certain fact at a certain aggregation level at an intersection of a combination of _____

- A. Facts
- B. Dimension**
- C. Summary tables

Page 88

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D. Primary and foreign key

Question No:93

(Marks:1)

Vu-Topper RM

Which of the following statement is/are TRUE regarding Entity relationship modeling?

- A. It does not really model business, but models the micro relationships among data elements.
- B. ER modeling does not have “business rules,” it has “data rules
- C. ER modeling helps retrieval of individual records having certain critical identifiers.

D. All of the given option

Page 102

Question No:94

(Marks:1)

Vu-Topper RM

_____ facilitates a mobile computing paradigm.

A. HOLAP

B. DOLAP

Page 78

C. ROLAP

Question No:95

(Marks:1)

Vu-Topper RM

The main reason(s) for the increase in cube size may be

- A. Increase in the number of dimensions
- B. Increase in the cardinality of the dimensions
- C. Increase in the amount of detail data

D. All of the given options

Page 87

Question No:96

(Marks:1)

Vu-Topper RM

Suppose the amount of data recorded in an organization is doubled every year. This increase is _____ .

A. Linear

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B. Quadratic

C. Exponential Page 15

D. Logarithmic

Question No:97

(Marks:1)

Vu-Topper RM

The data in the data warehouse is _____

A. Volatile

B. Non-volatile Page 69

C. Static

D. Non-structured

Question No:98

(Marks:1)

Vu-Topper RM

_____ models the macro relationships among data elements with an overall deterministic strategy.

A. Dimensional model Page 102

B. Entity relationship model

C. Object oriented model

D. Structured model

Question No:99

(Marks:1)

Vu-Topper RM

_____ technique requires a separate column to specify the time and date when the last modification was occurred.

A. Checkmarks

B. Timestamps Page 150

C. Just-in-Time

D. Real Time extraction

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Question No:100

(Marks:1)

Vu-Topper RM

Which of the denormalization technique squeezes master table into detail?

A. Pre-joining Page 58

- B. Horizontal splitting
- C. Vertical splitting
- D. Adding redundant column

Question No:101

(Marks:1)

Vu-Topper RM

The domain of a “gender” field in some database may be {‘F’, ‘M’} or as {“Female”, “Male”} or even as {1, 0}. This is:

A. Primary key problem

B. Non primary key problem Page 163

- C. Normalization problem
- D. All of the given option

Question No:102

(Marks:1)

Vu-Topper RM

Which of the following is not a Data Quality Validation Technique?

- A. Referential integrity
- B. Using Data Quality Rules
- C. Data Histograming

D. Indexes Page 189

Question No:103

(Marks:1)

Vu-Topper RM

Data cleansing requires involvement of domain expert because:

- A. Domain expert has deep knowledge of data aggregation
- B. Change Data captures requires involvement of domain expert

C. Domain knowledge is required to correct anomalies Page 158

D. Domain expert has deep knowledge of data summarization

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Question No:104

(Marks:1)

Vu-Topper RM

Suppose in system A, the possible values of “Gender” attribute were “Male” & “Female”, however in data warehouse, the values stored were “M” for male and “F” for female. The above scenario is an example of:

A. One-to-one scalar transformation Page 144

- B. One-to-many element transformation
- C. Many-to-one element transformation
- D. Many-to-many element transformation

Question No:105

(Marks:1)

Vu-Topper RM

Enrichment is one of the basic tasks in data _____.

A. Extraction

B. Transformation

Page 138

C. Loading

D. Summarization

Question No:106

(Marks:1)

Vu-Topper RM

Which of the following is not a technique of ‘De-Normalization’?

A. Pre-joining

B. Splitting tables

C. Adding redundant columns

D. ER modeling

Page 52

Question No:107

(Marks:1)

Vu-Topper RM

Which of the following is an example of Additive Facts?

A. Sales Amount

Page 119

B. Average

C. Discount

D. Ratios

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Question No:108

(Marks:1)

Vu-Topper RM

Robotic libraries are needed for _____

- A. Cubes
- B. Data marts
- C. Data warehouse**
- D. Aggregates

Page 131

Question No:109

(Marks:1)

Vu-Topper RM

Normally ROLAP is implemented using _____

- A. Star schema**
- B. Hybrid schema
- C. Pre-defined aggregate
- D. All of the given options

Page 87

Question No:110

(Marks:1)

Vu-Topper RM

Node of a B-Tree is stored in memory block and traversing a B-Tree involves _____ page faults.

- A. $O(n \log n)$
- B. $O(\log n)$**
- C. $O(n)$
- D. $O(n^2)$

Page 22

Question No:111

(Marks:1)

Vu-Topper RM

Which of the following is not a technique of “Changed Data Capture” in currently used Modern Source Systems?

Source System?

- A. Timestamps
- B. Partitioning
- C. Triggers

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D. Dimensional Modelling

Page 150

Question No:112

(Marks:1)

Vu-Topper RM

The trade-offs of denormalization is/are:

- A. Storage
- B. Performance
- C. Ease-of-use

D. All of the given options

Page 62

Question No:113

(Marks:1)

Vu-Topper RM

If actual data structure does not conform to documented formats then it is called:

- A. Syntactically dirty data**
- B. Semantically dirty data
- C. Coverage anomaly
- D. Extraction issue

Page 160

Question No:114

(Marks:1)

Vu-Topper RM

“Header size is reduced, allowing more rows per block, thus reducing I/O”. The above statement is TRUE with respect to:

- A. Vertical splitting**
- B. Horizontal splitting
- C. Adding redundant column
- D. None of the given options

Page 56

Question No:115

(Marks:1)

Vu-Topper RM

Which of the following is NOT an example of derived attribute?

A. AREA

B. CGPA

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C. Area of rectangle

D. Height

Question No:116

(Marks:1)

Vu-Topper RM

If a table is expected to have six columns but some or all of the records do not have six columns then it is example of:

A. Syntactically dirty data Page 160

B. Semantically dirty data

C. Coverage anomaly

D. Extraction issue

Question No:117

(Marks:1)

Vu-Topper RM

MDX by Microsoft is an example of _____

A. HOLAP

B. DOLAP

C. ROLAP

D. None of the given options Page 79

Question No:118

(Marks:1)

Vu-Topper RM

The growth of master files and magnetic tapes exploded in

_____.

A. 1950s

B. 1960s Page 12

C. 1970s

D. 1980s

Question No:119

(Marks:1)

Vu-Topper RM

If one or more records in a relational table do not satisfy one or more integrity constraint, then the data:

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- A. Is syntactically dirty
- B. Is semantically dirty** Page 160
- C. Has Coverage anomaly
- D. Has extraction issue

Question No:120

(Marks:1)

Vu-Topper RM

OLAP is:

- A. Analytical processing** Page 69
- B. Transaction processing
- C. Additive processing
- D. Active processing

Question No:121

(Marks:1)

Vu-Topper RM

One of the possible issues faced by web scrapping is that:

- A. Web pages may contain junk data** Page 141
- B. Web pages do not contain multiple facts
- C. Web pages do not contain multiple dimensions
- D. Web pages does not support transformation

Question No:122

(Marks:1)

Vu-Topper RM

Which of the following is/are example(s) of dimension?

- A. Product** Page 79
- B. Region
- C. Data
- D. All of the given options

Question No:123

(Marks:1)

Vu-Topper RM

An OLTP system is always good at _____

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A. Evolving data **Page 122**

- B. Keeping static data
- C. Tracking past data
- D. Maintaining historic data

Question No:124 **(Marks:1)** **Vu-Topper RM**

In case of multiple sources for the same data element, we need to prioritize the source systems per element bases, the process is called:

A. Ranking **Page 143**

- B. Prioritization
- C. Element selection
- D. Measurement selection

Question No:125 **(Marks:1)** **Vu-Topper RM**

Which is not a/an Data Quality Validation Technique?

A. Consistency Integrity

- B. Referential Integrity
- C. Attribute Domain
- D. Using Data Quality Rules

Question No:126 **(Marks:1)** **Vu-Topper RM**

In _____ SQL generation is vastly simplified for front-end tools when the data is highly structured.

A. MOLAP

B. Star Schema **Page 107**

- C. Hybrid schema
- D. Object oriented schema

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Question No:127

(Marks:1)

Vu-Topper RM

Dirty data means that:

- A. Data cannot be aggregated
- B. Data contains non-additive facts
- C. Data does not fulfill dimensional modeling rules

D. Data does not conform to proper domain definitions.

Page 158

Question No:128

(Marks:1)

Vu-Topper RM

In context of Change Data Capture (CDC), some times a _____ object can be used to store the recently modified data:

- A. Buffer table
- B. Change table**
- C. Checkmark table
- D. Change control table

Page 149

Question No:129

(Marks:1)

Vu-Topper RM

“Sometimes during data collection complete entities are missed”. This statement is an example of:

- A. Missing tuple**
- B. Missing attribute
- C. Missing aggregates
- D. Semantically dirty data

Page 161

Question No:130

(Marks:1)

Vu-Topper RM

Data warehouse stores _____.

- A. Operational data
- B. Historical data**
- C. Meta

Page 24

data

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D. Log files data

Question No:131

(Marks:1)

Vu-Topper RM

The business processes covered by ER diagram:

A. Do not co-exist in time and space **Page 109**

B. Co-exist in time and space

C. Do not physically exist in real time context

D. None of the given options

Question No:132

(Marks:1)

Vu-Topper RM

The main goal of normalization is to eliminate _____.

A. Data redundancy **Page 41**

B. Data sharing

C. Data security

D. Data consistency

Question No:133

(Marks:1)

Vu-Topper RM

For large record spaces and large number of records, the run time of the clustering algorithms is _____.

A. Prohibitive **Page 164**

B. Static

C. Exponential

D. Numerical

Question No:134

(Marks:1)

Vu-Topper RM

_____ can result in costly errors, such as: False frequency distributions and incorrect aggregates due to double counting.

A. Data duplication **Page 165**

B. Data reduction

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- C. Data anomaly
- D. Data transformation

Question No:135 (Marks:1) **Vu-Topper RM**

The degree to which values are present in the attributes that require them is known as _____.

- A. Completeness** Page 185
- B. Uniqueness
- C. Accessibility
- D. Consistency

Question No:136 (Marks:1) **Vu-Topper RM**

Time Complexity of Key Creation process in basic Sorted Neighborhood (BSN) Method is _____.

- A. $O(n \log n)$
- B. $O(\log n)$
- C. $O(n)$** Page 171
- D. $O(2n)$

Question No:137 (Marks:1) **Vu-Topper RM**

Which of the following is an example of slowly changing dimensions?

- A. Inheritance** Page 124
- B. Aggregation
- C. Association
- D. Asset disposal

Question No:138 (Marks:1) **Vu-Topper RM**

The _____ operator proves useful in more complex metrics applicable to the dimensions of timeliness and accessibility.

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A. Max **Page 188**

B. Min

C. Max and Min

D. None of the given

Question No:139

(Marks:1)

Vu-Topper RM

In OLAP, the typical write operation is _____.

A. Bulk insertion **Page 75**

B. Single insertion

C. Sequential insertion

D. No insertion

Question No:140

(Marks:1)

Vu-Topper RM

The issue(s) of “Adding redundant column” include(s):

A. Maintenance

B. Increase in table size

C. Loss of information

D. All of the given option **Page 65**

Question No:141

(Marks:1)

Vu-Topper RM

_____ is applicable in Profitability analysis.

A. OLTP

B. Data warehouse **Page 36**

C. Information System(IS)

D. Management Information System(MIS)

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Question No:142

(Marks:1)

Vu-Topper RM

The hardware (CPU) utilization in data warehouse environment is full or

_____.

- A. Fixed
- B. Partial
- C. Not at all**
- D. Slow

Page 24

Question No:143

(Marks:1)

Vu-Topper RM

Time variant is a characteristics of data warehouse which means:

- A. Data loaded in data warehouse will be time stamped**
- B. Data can be loaded in data warehouse anytime
- C. Data can be loaded in data warehouse only at a particular time
- D. Data cannot be loaded in data warehouse with respect to time

Page 20

Question No:144

(Marks:1)

Vu-Topper RM

In which class of aggregates MEDIAN function can be placed?

- A. Algebraic**
- B. Distributed
- C. Associative
- D. Holistic

Page 120

Question No:145

(Marks:1)

Vu-Topper RM

Considered the following Employee table and identify the column which causes that the table is not in first normal form(1NF): (Emp_ID,

Emp_Name ,Emp_skills, Emp_Designation)

- A. Emp_ID
- B. Emp_Name

C. Emp_skills

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D. Emp_Designation

Question No:146

(Marks:1)

Vu-Topper RM

The application of data and information leads to _____.

A. Intelligence

B. Experience

C. Knowledge Page 11

D. Power

Question No:147

(Marks:1)

Vu-Topper RM

The key idea behind _____ is to take a big task and break it into subtasks that can be processed concurrently on a stream of data inputs in multiple, overlapping stages of execution.

A. Pipeline Parallelism

Page 214

B. Overlapped Parallelism

C. Massive Parallelism

D. Distributed Parallelism

Question No:148

(Marks:1)

Vu-Topper RM

Records referring to the same entity are represented in different formats in the different data sets or are represented erroneously. Thus, duplicate records will appear in the merged database. This problem is known as _____.

A. Merge/purge problem

Page 168

B. Duplication problem

C. Redundant duplication problem

D. Redundant problem

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Question No:149

(Marks:1)

Vu-Topper RM

The data perspective in OLTP system is operational, while that in data warehouse is:

- A. Fully normalized
- B. Fully de-normalized
- C. Fully summarized

D. Historical and detailed

Page 30

Question No:150

(Marks:1)

Vu-Topper RM

Simple scalar transformation is a _____ mapping from one set of values to another set of values using straightforward rules.

A. One-to-one

Page 144

- B. One-to-many
- C. Many-to-many
- D. Many-to-one

Question No:151

(Marks:1)

Vu-Topper RM

_____ can be created in operational systems to keep track of recently updated records.

A. Triggers

Page 150

- B. Timestamps
- C. Partitioning
- D. ELT

Question No:152

(Marks:1)

Vu-Topper RM

Development of data warehouse is hard because data sources are usually _____.

- A. Structured and homogeneous

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B. Unstructured and heterogeneous Page 31

C. Structured and heterogeneous

D. Unstructured and homogeneous

Question No:153

(Marks:1)

Vu-Topper RM

In the decision support environment, the decision maker is interested in

_____.

A. Only limited organizational data

B. Big picture of organizational data Page 21

C. Only sale related data

D. Only customer related data

Question No:154

(Marks:1)

Vu-Topper RM

Information can answers questions like “what”, “who” and “when”

while knowledge can answer questions like _____.

A. Why

B. Where

C. Which

D. How Page 11

Question No:155

(Marks:1)

Vu-Topper RM

OLTP implementations are fully_____.

A. Normalized Page 69

B. Denormalized

C. Predictive

D. Additive

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Question No:156

(Marks:1)

Vu-Topper RM

Which logical data extraction has significant performance impacts on the data warehouse server?

A. Incremental Extraction

Page 133

- B. Online Extraction
- C. Offline Extraction
- D. Legacy Vs OLTP

Question No:157

(Marks:1)

Vu-Topper RM

In which type of data extraction, there is no need keep track of changes?

A. Full Extraction

- B. Incremental Extraction
- C. Full Extraction
- D. Half Extraction

Question No:158

(Marks:1)

Vu-Topper RM

Analytical processing uses _____.

A. Multi-level aggregates

Page 74

- B. Record level aggregates
- C. Table level aggregates
- D. All of the given options

Question No:159

(Marks:1)

Vu-Topper RM

Which is not a class of anomalies in the following?

A. Dirty anomalies

Page 160

- B. Syntactically dirty data
- C. Semantically dirty data
- D. Coverage anomalies

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Question No:160

(Marks:1)

Vu-Topper RM

_____ is a system of activities that assures conformance of product to pre-established requirements.

A. Quality assurance **Page 183**

B. Quality improvement

C. Quality Maintenance

D. Quality Establishment

Question No:161

(Marks:1)

Vu-Topper RM

Two interesting examples of quality dimensions that can make use of the min operator are _____.

A. Believability and appropriate amount of data **Page 188**

B. Believability and consistency

C. Believability and Redundancy

D. Reliability and appropriate amount of data

Question No:162

(Marks:1)

Vu-Topper RM

_____ in a database or data warehouse has no actual value; it only has potential value.

A. Data **Page 181**

B. Entity

C. Flat tables

D. Data marts

Question No:163

(Marks:1)

Vu-Topper RM

In OLTP environment the selectivity is _____ and _____ in data warehouse environment.

A. High, Low **Page 22**

B. Low,

High

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- C. High, Fixed
- D. Fixed, Low

Question No:164

(Marks:1)

Vu-Topper RM

Which is not a/an characteristics of data quality?

- A. Reliability** **Page 186**
- B. Uniqueness
- C. Accessibility
- D. Consistency

Question No:165

(Marks:1)

Vu-Topper RM

Many data warehouse project teams waste enormous amounts of time searching in vain for a _____.

- A. Silver Bullet** **Page 315**
- B. Golden Bullet
- C. Suitable Hardware
- D. Compatible Product

Question No:166

(Marks:1)

Vu-Topper RM

The relation R will be in 3rd Normal Form if

- A. It is in 2NF each cell contains single value
- B. It is in 2NF and every non-key column is non-key transitively dependent upon its primarykey.** **Page 46**
- C. It is in 1NF and each non key attribute is dependent upon a single column of composite primary key.
- D. It is in 2NF and each non key attribute is dependent upon other non-key attribute.

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Question No:167

(Marks:1)

Vu-Topper RM

Decision support system queries deal with number of columns

_____.

- A. Having numeric values
- B. In a single table
- C. In a single view

D. Spanning across multiple tables **Page 21**

Question No:168

(Marks:1)

Vu-Topper RM

Normalization is used to reduce _____.

- A. Reduces redundancy**
- B. Increases redundancy
- C. Reduces joins
- D. Reduces tables

Page 41

Question No:169

(Marks:1)

Vu-Topper RM

Most DWH implementations today do not use ___ enforced by the database, but as TQM methods improve overall data quality and database optimizers

- A. Consistency Integrity
- B. Referential Integrity**
- C. Attribute domain
- D. Using Data Quality Rulesv

Page 190

Question No:170

(Marks:1)

Vu-Topper RM

Which is not an issue of ROLAP in the following?

- A. Standard hierarchy of dimensions**
- B. Non-standard conventions

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- C. Maintenance
- D. Aggregation

Question No:171

(Marks:1)

Vu-Topper RM

_____ is not the characteristic of data warehouse.

- A. Time variant
- B. Subject-oriented
- C. Integrated

D. Volatile

Page 69

Question No:172

(Marks:1)

Vu-Topper RM

Which is not a/an step of data cleansing procedure?

A. Aggregation

Page 168

- B. Elementizing
- C. Standardizing
- D. Verifying

Question No:173

(Marks:1)

Vu-Topper RM

Ad-hoc access of data warehouse means:

A. That have predefined database access pattern

B. That does not have predefined database access pattern

Page 18

- C. That could be accessed by any user
- D. That could not be accessed by any user

Question No:174

(Marks:1)

Vu-Topper RM

_____ is a/an measure of how current or up to date the data is.

A. Timeliness

Page 185

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- B. Completeness
- C. Accessibility
- D. Consistency

Question No:175 (Marks:1) **Vu-Topper RM**

The process of converting entity relationship model in to dimensional model comprises of ___ steps:

- A. Two
- B. Three
- C. Four**
- D. Five

Page 109

Question No:176 (Marks:1) **Vu-Topper RM**

s defined by a group of records that have similar characteristics (“behavior”) for p% of the fields in the data set, where p is a user-defined value (usually above 90

- A. Pattern**
- B. Cluster
- C. Entity
- D. Attribute

Page 164

Question No:177 (Marks:1) **Vu-Topper RM**

_____ is known as state of being only one of its kind or being without an equal or parallel.

- A. Completeness
- B. Uniqueness**
- C. Accessibility
- D. Consistency

Page 185

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Question No:178

(Marks:1)

Vu-Topper RM

Which of the following is not an example of fact?

- A. Account no**
- B. Sales quantity
- C. Per unit sales amount
- D. Sales amount

Page 74

Question No:179

(Marks:1)

Vu-Topper RM

This technique can be used when a column from one table is frequently accessed in a large scale join in conjunction with a column from another table.

- A. Pre-joining
- B. Derived attributes
- C. Horizontal splitting

D. Adding redundant column

Page 58

Question No:180

(Marks:1)

Vu-Topper RM

The _____ dimension represents data correctness.

- A. Free-of-error**
- B. Completeness
- C. Consistency
- D. Correctness

Page 187

Question No:181

(Marks:1)

Vu-Topper RM

Which is the most complex type of transformation in the following?

- A. Many-to-many element transformation**
- B. One-to-one scalar transformation
- C. One-to-many element transformation
- D. All of

the given

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Question No:182

(Marks:1)

Vu-Topper RM

Serious _____ involves decomposing and reassembling the data.

A. Data cleansing **Page 168**

- B. Data transformation
- C. Data loading
- D. Data Extraction

Question No:183

(Marks:1)

Vu-Topper RM

The typical availability of OLTP system is 24/7, while that of data warehouse is _____.

A. 6/12

- B. 7/12
- C. 7/24
- D. Twice a week

Question No:184

(Marks:1)

Vu-Topper RM

In _____ nested-loop join of quadratic time complexity does not hurt the performance

A. Typical OLTP environments **Page 22**

- B. Data warehouse
- C. DSS
- D. OLAP

Question No:185

(Marks:1)

Vu-Topper RM

The data has to be checked, cleansed and transformed into a _____ format to allow easy and fast access

A. Unified **Page 20**

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- B. predicted
- C. qualified
- D. proactive

Question No:186

(Marks:1)

Vu-Topper RM

The extent to which data is in appropriate languages, symbols, and units, and the definitions are clear is known as _____.

- A. Interpretability** **Page 185**
- B. Uniqueness
- C. Accessibility
- D. Consistency

Question No:187

(Marks:1)

Vu-Topper RM

In OLTP environments, the size of tables is relatively _____.

- A. Large
- B. Fixed
- C. Moderate
- D. Small**

Page 22

Question No:188

(Marks:1)

Vu-Topper RM

_____ is the extent to which data is regarded as true and credible.

- A. Believability** **Page 188**
- B. Completeness
- C. Accessibility
- D. Consistency

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Question No:189

(Marks:1)

Vu-Topper RM

_____ Breaks a table into multiple tables based upon common column values

A. Horizontal splitting Page 54

- B. Vertical splitting
- C. None of given options
- D. Adding redundant column

Question No:190

(Marks:1)

Vu-Topper RM

The degree of similarity between two records, often measured by a numerical value between _____, usually depends on application characteristics.

A. 0 and 1 Page 169

- B. 2 and 3
- C. 1 and 2
- D. None of the given

Question No:191

(Marks:1)

Vu-Topper RM

In Extract, Load, Transform (ELT) process, data transformation _____

A. Takes place on the data warehouse server Page 147

- B. Takes place on a separate transformation server
- C. Depends on the nature of the source database
- D. Does not take place

Question No:192

(Marks:1)

Vu-Topper RM

_____ incorporates the concept of product quality, process control, quality assurance, and quality improvement.

A. Total Quality Management

- B. Intrinsic Data Quality Management
- C. Realistic Data Quality Management
- D. Strong Data Quality Management

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Question No:193

(Marks:1)

Vu-Topper RM

One scope of data warehouse is to _____.

- A. Improve business**
- B. Run business
- C. Record day-to-day business activities
- D. Calculate tax of the business's profit

Question No:194

(Marks:1)

Vu-Topper RM

In pre-joining de-normalization technique, the header size of Master table is 40 bytes and Detail table is 50 bytes. If the size of reference column is 8 bytes, then the header size of de-normalized table will be _____.

- A. 48 bytes
- B. 58 bytes
- C. 90 bytes**
- D. 82 byte

Question No:195

(Marks:1)

Vu-Topper RM

De-normalization affects:

- A. Database size and query performance**
- B. Database Usability and query reliability
- C. Database availability and query success
- D. None of the given options

Question No:196

(Marks:1)

Vu-Topper RM

In dimension modeling, _____ can be more than simple hierarchies i.e. item, subcategory, category, etc.

- A. Grain
- B. Fact
- C. Table

D. Dimensions

Page 92

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Question No:197

(Marks:1)

Vu-Topper RM

Change Data Capture (CDC) can be challenging task because:

- A. Aggregates don't change in real time
- B. Transformation of extracted data is difficult
- C. Identifying the recently modified data may be difficult**
- D. Source systems may not support extraction of changed aggregates

Question No:198

(Marks:1)

Vu-Topper RM

A/an _____ is a collection of random transactional codes, flags and/or text attributes that are unrelated to any particular dimension.

- A. Junk dimension** **Page 127**
- B. Simple Dimensions
- C. Multi-valued Dimension
- D. Slowly Changing Dimension

Question No:199

(Marks:1)

Vu-Topper RM

Increasing level of normalization _____ number of tables.

- A. Increases** **Page 51**
- B. Decreases
- C. Does not effect
- D. None of the given options

Question No:200

(Marks:1)

Vu-Topper RM

The biggest problem with _____ is the requirement of large main memory as the cube size increases.

- A. OLTP
- B. ROLAP
- C. MOLAP** **Page 87**
- D. Data Warehouse

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Question No:201

(Marks:1)

Vu-Topper RM

Relational modelling techniques are used to develop _____ systems.

A. OLTP Page 98

B. TCL

Question No:202

(Marks:1)

Vu-Topper RM

De-normalization usually speeds up _____.

A. Data retrieval Page 51

B. Data add

Question No:203

(Marks:1)

Vu-Topper RM

Which is of the most time-consuming tasks in the ETL process and, indeed, in the entire data warehousing process?

A. Data Extraction Page 132

B. Data binding

Question No:204

(Marks:1)

Vu-Topper RM

_____ is a logical design technique that seeks to present the data in a standard, instinctive structure that supports high-performance and ease of understanding.

A. DM Page 103

B. AM

C. CM

D. CM

Question No:205

(Marks:1)

Vu-Topper RM

Which of the following is not an Orr's Law of Data Quality”?

A. “Data that is not used cannot be corrected!”

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B. "Data quality is a function of its use, not its collection!"

C. "Data will be no better than its most stringent use!"

D. "Data duplication can be harmful for the organization!"

" Page 181

Question No:206

(Marks:1)

Vu-Topper RM

The most common range partitioning is on

A. Color

B. Date Page 66

C. PhoneNo

D. Name

Question No:207

(Marks:1)

Vu-Topper RM

___ is the degree of utility and value the data has to support the enterprise processes that enable accomplishing enterprise objectives

A. Intrinsic Data Quality

B. Realistic Data Quality Page 181

C. Strong Data Quality

D. Weak Data Quality

Question No:208

(Marks:1)

Vu-Topper RM

In the data transformation, _____ is the rearrangement and simplification of individual

A. Aggregation

B. Enrichment Page 136

C. Splitting joining

D. Conversion

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Question No:209

(Marks:1)

Vu-Topper RM

Normalization _____ :

- A. Reduces redundancy** **Page 41**
- B. Increases redundancy
- C. Reduces joins
- D. Reduces tables

Question No:210

(Marks:1)

Vu-Topper RM

In a fully normalized form:

- A. To many joins are required** **Page 49**
- B. Relationships lose their significance
- C. No joins are required
- D. Data integrity becomes an issue

Question No:211

(Marks:1)

Vu-Topper RM

Taken jointly, the extract programs or naturally evolving systems formed a spider web, also known as

- A. Distributed Systems Architecture
- B. Legacy System Architecture** **Page 14**
- C. Online System Architecture
- D. Intranet System Architecture

Question No:212

(Marks:1)

Vu-Topper RM

The users of data warehouse are knowledge workers in other words they are _____ in the organization.

- A. DWH Analyst
- B. Decision makers** **Page 18**
- C. Database Administrator
- D. Manager

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Question No:213

(Marks:1)

Vu-Topper RM

Companies collect and record their own operational data, but at the same time they also use reference data obtained from ___ sources such as codes, prices etc.

- A. Operational
- B. None
- C. Internal

D. External

Page 21

Question No:214

(Marks:1)

Vu-Topper RM

In decision support system ease of use is achieved by:

A. Normalization

B. Denormalization

Page 49

C. Drill up

D. Drill down

Question No:215

(Marks:1)

Vu-Topper RM

Data Warehouse is about taking / collecting data from different _____ sources.

A. Harmonized

B. Identical

C. Homogeneous

D. Heterogeneous

Page 21

Question No:216

(Marks:1)

Vu-Topper RM

De-normalization can help:

A. Minimize joins

B. Minimize foreign keys

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C. Resolve aggregates

D. All of the given options

Page 51

Question No:217

(Marks:1)

Vu-Topper RM

Naturally Evolving architecture occurred when an organization had a _____ approach to handling the whole process of hardware and software architecture.

A. Relaxed

Page 14

B. Good

C. Not Relaxed

D. None

Question No:218

(Marks:1)

Vu-Topper RM

De-normalization normally speeds up

A. Data Retrieval

B. Data modification

C. Development cycle

D. Data replication

Question No:219

(Marks:1)

Vu-Topper RM

History is excellent predictor of the _____:

A. Past

B. Present

C. Future

Page 15

D. History

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Question No:220

(Marks:1)

Vu-Topper RM

De-normalization is the process of selectively transforming normalized relations into un-normalized physical record specifications, with the aim to:

- A. Well structure the data
- B. Well model the data

C. Reduce query processing time

Page 50

- D. None of the given option

Question No:221

(Marks:1)

Vu-Topper RM

_____ gives total view of an organization

- A. OLAP
- B. OLTP

C. Data Warehouse Page 16

- D. Database

Question No:222

(Marks:1)

Vu-Topper RM

The _____ dimension is simply a structure that provides a convenient place to store the _____ attributes.

A. Junk Page 127

- B. Time

- C. Parallel

- D. None of these

Question No:223

(Marks:1)

Vu-Topper RM

As dimensions get less detailed (e.g., year vs. day) cubes get _____

A. Smaller Page 84

- B. Larger

C. Partitioned

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D. Merged

Question No:224

(Marks:1)

Vu-Topper RM

Instance matching between different sources is then achieved by a standard _____ on identifying attribute(s), if you are very, very, very lucky.

A. Equi-join

Page 169

B. Inner join

C. Outer join

D. Fuller join

Question No:225

(Marks:1)

Vu-Topper RM

Which of the following is NOT an example of derived attribute?

A. Email address

B. Age

C. GPA

D. Annual Salary

Question No:226

(Marks:1)

Vu-Topper RM

Table collapsing technique is applied in case of:

A. One-by-one relation or many-to-many relation

Page 52

B. One-to-many relation

C. Many-to-many relation

D. None of the given option

Question No:227

(Marks:1)

Vu-Topper RM

Which of the following is an example of dimension?

A. Product

B. Region

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C. Date

D. All of the given option

Page 78

Question No:228

(Marks:1)

Vu-Topper RM

In _____ system, the contents change with time.

A. OLTP

Page 20

B. ATM

C. DSS

D. OLAP

Question No:229

(Marks:1)

Vu-Topper RM

The need to synchronize data upon update is called

A. Data Manipulation

B. Data Replication

C. Data Coherency

Page 12

D. Data imitation

Question No:230

(Marks:1)

Vu-Topper RM

In horizontal splitting, we split a relation into multiple tables on the basis of

A. Common column values

Page 55

B. Common row values

C. Different index values

D. Value resulted by ad-hoc query

Question No:231

(Marks:1)

Vu-Topper RM

The end user of data ware house are_____.

A. Programmers

B. Database developers

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C. Data entry operator

D. Business executives Page 19

Question No:232

(Marks:1)

Vu-Topper RM

Which one are the characteristics of data warehouse queries?

A. Use primary key

B. High selectivity

C. Use multiple tables Page 30

D. Very low performance

Question No:233

(Marks:1)

Vu-Topper RM

In data transformation, _____ is the rearrangement and simplification of individual fields to make them more useful for the data warehouse environment.

A. Aggregation / Enrichment

B. Selection

C. Splitting/Joining

D. Conversion

Question No:234

(Marks:1)

Vu-Topper RM

One of the fundamental purpose of de-normalization is to _____
— a number of physical tables which ultimately reduce the number of joins to answer a query.

A. Delete

B. Reduce Page 50

C. Increase

D. Decrease

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