

CS-614 Data Warehousing Update MCQS For Quiz-2 File Solve By Vu Topper RM

85% To 100% Marks



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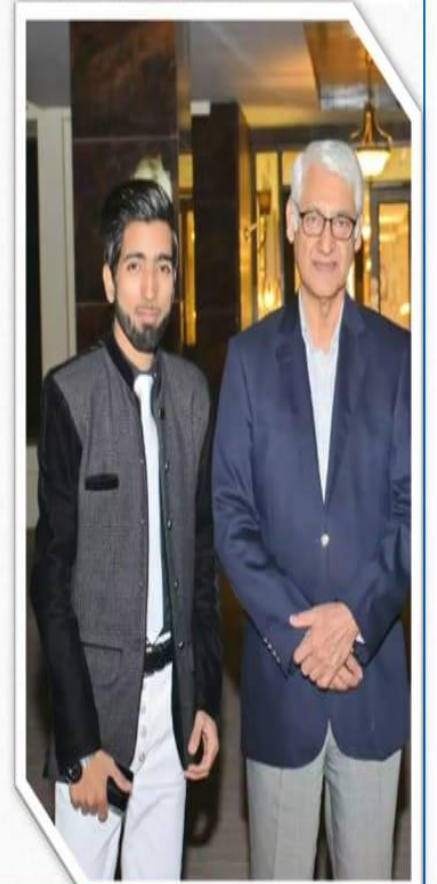
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In which class of aggregates Max function can be placed?

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

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

Which is not a class of aggregation functions?

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

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

Page 155

In which class of aggregates AVERAGE function can be placed?

- A. Algebraic** **Page 120**
- B. Distributed
- C. Associative
- D. Holistic

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The most common use of range partitioning is on_____.

A. Date **Page 66**

- B. Name
- C. Color
- D. PhoneNo

OLAP is:

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

Question No:1

(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** **ok**
- C. Relational Modeling
- D. Multi-dimensional Modeling

Question No:2

(Marks:1)

Vu-Topper RM

Relational modelling techniques are used to develop _____ systems.

- A. OLTP** **Page 98**
- B. TCL

Question No:3

(Marks:1)

Vu-Topper RM

_____ does not have "business rules," it has "data rules. "

- A. ER modelling** **Page 102** **ok**
- B. OLAP
- C. DM modeling

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D. Multi-dimensional Modeling

Question No:4

(Marks:1)

Vu-Topper RM

De-normalization usually speeds up _____.

A. Data retrieval Page 51

B. Data add

Question No:5

(Marks:1)

Vu-Topper RM

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

A. Fast data retrieval Page 55 ok

B. Enhance security

C. Increase I/O Overhead

D. Organize tables for different queries

Question No:6

(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 ok

Question No:7

(Marks:1)

Vu-Topper RM

_____ is the application of intelligence and experience to get Time variant is a characteristic of data warehouse which means:

A. Data cannot be loaded in data warehouse with respect to time

B. Data loaded in data warehouse will be time stamped

Question No:8

(Marks:1)

Vu-Topper RM

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

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A. Total view

B. Mid view

C. End view

Question No:9

(Marks:1)

Vu-Topper RM

History is excellent predictor of the _____.

A. Past

B. Future

C. Current

Question No:10

(Marks:1)

Vu-Topper RM

Identify data warehouse query from the following:

A. Directly maps to a star schema.

B. Not Directly maps to a star schema

Question No:11

(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:12

(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

ok

B. Fact

C. Dimensions

D. Cube

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Question No:13

(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 ok

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

Question No:14

(Marks:1)

Vu-Topper RM

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

A. Grain Page 111 ok

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

Question No:15

(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:16

(Marks:1)

Vu-Topper RM

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

A. Syntactically dirty data

- B. Coverage anomaly
- C. Semantically dirty data

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D. Extraction issue

Question No:17

(Marks:1)

Vu-Topper RM

Relational modeling techniques are used to develop _____ systems.

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

D. OLTP **Page 98**

ok

Question No:18

(Marks:1)

Vu-Topper RM

Online Extraction is a kind of _____ data extraction.

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

Page 132

ok

Question No:19

(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:20

(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

Page 140

ok

B. Homogeneous

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- C. Centralized
- D. Baseline

Question No:21

(Marks:1)

Vu-Topper RM

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

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

D. Full Data Refresh Page 135 ok

Question No:22

(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!”
- 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:23

(Marks:1)

Vu-Topper RM

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

- A. Online
- B. Offline**
- C. Incremental
- D. Full

Page 134 ok

Question No:24

(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

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B. Limited query interface is required for data extraction

Page 152 ok

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

D. Extraction of changed data occurs immediately

Question No:25

(Marks:1)

Vu-Topper RM

The most common range partitioning is on

A. Color

B. Date Page 66

C. PhoneNo

D. Name

Question No:26

(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:27

(Marks:1)

Vu-Topper RM

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

A. Values

B. Joins Page 49

C. Queries

D. Conditions

Question No:28

(Marks:1)

Vu-Topper RM

In the data warehouse, data is collection from _____ sources:

A. Homogeneous

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B. Heterogeneous

Page 21

C. External

D. Internal

Question No:29

(Marks:1)

Vu-Topper RM

De-normalization is more like a “controlled crash” with the aim to ——
—— without loss of information:

A. Check

B. Balance

C. Decrease

D. Enhance

Page 49

Question No:30

(Marks:1)

Vu-Topper RM

————— is making all efforts to increase effectiveness and
efficiency in meeting and accepted customer expectation:

A. Quality assurance

B. Quality improvement

Page 183

C. Quality maintenance

D. Quality Establishment

Question No:31

(Marks:1)

Vu-Topper RM

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

A. Wisdom

Page 11

B. Education

C. Power

D. Information

Question No:32

(Marks:1)

Vu-Topper RM

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

A. Aggregation

B. Enrichment Page 136

C. Splitting joining

D. Conversion

Question No:33

(Marks:1)

Vu-Topper RM

Grain of a fact table means:

A. The meaning of one fact table row Page 109 ok

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:34

(Marks:1)

Vu-Topper RM

Normalization ————— :

A. Reduces redundancy Page 41

B. Increases redundancy

C. Reduces joins

D. Reduces tables

Question No:35

(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 ok

Question No:36

(Marks:1)

Vu-Topper RM

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

A. SQL

B. Proprietary file Page 79 ok

C. Object oriented

D. Non-proprietary file

Question No:37

(Marks:1)

Vu-Topper RM

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

A. HOLAP Page 78 ok

B. DOLAP

C. MOLAP

D. ROLAP

Question No:38

(Marks:1)

Vu-Topper RM

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

A. Mandatory

B. Whole

C. Analysis Page 69 ok

D. Prediction

Question No:39

(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 Page 56 ok

B. Horizontal splitting

C. Adding redundant column

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D. None of the given option

Question No:40

(Marks:1)

Vu-Topper RM

OLAP implementations are highly/completely _____

A. Normalized

B. Demoralized Page 69 ok

C. Predictive

D. Additive

Question No:41

(Marks:1)

Vu-Topper RM

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 Page 43

B. Relation R is in 2nd Normal Form

C. Relation R is in 3rd Normal Form

Question No:42

(Marks:1)

Vu-Topper RM

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

A. Many- to- Many Page 121 ok

B. One-to-many

C. One-to-one

D. None of the given option

Question No:43

(Marks:1)

Vu-Topper RM

Which of the following is not an example of dimension?

A. ATM card no

B. Sales amount Page 78 ok

C. ATM_Location

D. Time/Date

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Question No:44

(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

Question No:45

(Marks:1)

Vu-Topper RM

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

A. Those that consider Business processes as Data marts

Page 110 ok

- 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:46

(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:47

(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 ok

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D. Count of orders in a store

Question No:48

(Marks:1)

Vu-Topper RM

Which of the following is not a CUBE operation?

A. ANSI SQL Page 81 ok

B. Roll Up

C. Drill Down

D. Pivoting

Question No:49

(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 ok

D. HOLAP

Question No:50

(Marks:1)

Vu-Topper RM

ROLAP provides access to information via a relational database using:

A. ANSI standard SQL Page 78 ok

B. Proprietary file format

C. Comma Separated Values

D. All of the given option

Question No:51

(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 ok

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- C. Expression indexing
- D. None of the given option

Question No:52

(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:53

(Marks:1)

Vu-Topper RM

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

A. Unified **Page 20**

B. Predicated

C. Qualified

D. Proactive

Question No:54

(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 **Page 144**

C. Many-to-one element transformation

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D. Many-to-many element transformation

Question No:55

(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:56

(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** **ok**

C. HOLAP

D. Hybrid schema

Question No:57

(Marks:1)

Vu-Topper RM

In ETL process data transformation includes _____

A. Data cleansing **Page 129** **ok**

B. Data aggregation

C. Behavior checking

D. Pattern recognition

Question No:58

(Marks:1)

Vu-Topper RM

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

A. Syntactically dirty data **Page 160**

B. Semantically dirty data

C. Coverage anomaly

D. Extraction issue

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Question No:59

(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** **ok**
- B. Field splitting
- C. Field decoding
- D. Calculation of derived value

Question No:60

(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:61

(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** **ok**

Question No:62

(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

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D. Derived attributes

Question No:63

(Marks:1)

Vu-Topper RM

Which of the following is an example of derived attribute?

A. Age

Page 61

ok

B. Size

C. Color

D. Length

Question No:64

(Marks:1)

Vu-Topper RM

The online high performance transaction processing was evolved in —
_____:

A. 1980

B. 1975

Page 12

C. 1977

D. 1965

Question No:65

(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

Page 88

ok

C. Summary tables

D. Primary and foreign key

Question No:66

(Marks:1)

Vu-Topper RM

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

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- 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** **ok**

Question No:67 **(Marks:1)** **Vu-Topper RM**

_____ facilitates a mobile computing paradigm.

A. HOLAP

B. DOLAP **Page 78** **ok**

C. ROLAP

Question No:68 **(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** **ok**

Question No:69 **(Marks:1)** **Vu-Topper RM**

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

- A. Linear
- B. Quadratic

C. Exponential **Page 15**

D. Logarithmic

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Question No:70

(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:71

(Marks:1)

Vu-Topper RM

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

A. Dimensional model

Page 102

ok

B. Entity relationship model

C. Object oriented model

D. Structured model

Question No:72

(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

ok

C. Just-in-Time

D. Real Time extraction

Question No:73

(Marks:1)

Vu-Topper RM

Which of the de-normalization technique squeezes master table into detail?

A. Pre-joining

Page 58

B. Horizontal splitting

C. Vertical splitting

D. Adding redundant column

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Question No:74

(Marks:1)

Vu-Topper RM

De-normalization can help:

- A. Minimize joins
- B. Minimize foreign keys
- C. Resolve aggregates

D. All of the given options

Page 51

Question No:75

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

Page 163

Question No:76

(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:77

(Marks:1)

Vu-Topper RM

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

- A. Horizontal splitting
- B. Pre-joining

C. Adding redundant column

Page 58

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D. Derived attributes

Question No:78

(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

Question No:79

(Marks:1)

Vu-Topper RM

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

- A. Only One Direction
- B. Any Direction Page 19**
- C. Two Direction
- D. None of these

Question No:80

(Marks:1)

Vu-Topper RM

History is excellent predictor of the _____:

- A. Past
- B. Present
- C. Future Page 15**
- D. History

Question No:81

(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

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B. Well model the data

C. Reduce query processing time

Page 50

D. None of the given option

Question No:82

(Marks:1)

Vu-Topper RM

_____ gives total view of an organization:

A. OLAP

B. OLTP

C. Data Warehouse **Page 16**

D. Database

Question No:83

(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** **ok**

B. One-to-many element transformation

C. Many-to-one element transformation

D. Many-to-many element transformation

Question No:84

(Marks:1)

Vu-Topper RM

Enrichment is one of the basic tasks in data _____.

A. Extraction

B. Transformation **Page 138** **ok**

C. Loading

D. Summarization

Question No:85

(Marks:1)

Vu-Topper RM

Which of the following is not a technique of De-normalization?

A. Pre-joining

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- B. Splitting tables
- C. Adding redundant columns

D. ER modeling **Page 52**

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

Which of the following is an example of Additive Facts?

A. Sales Amount **Page 119** **ok**

- B. Average
- C. Discount
- D. Ratios

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

Robotic libraries are needed for _____

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

Page 131 **ok**

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

Normally ROLAP is implemented using _____

A. Star schema **Page 87** **ok**

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

Question No:89 **(Marks:1)** **Vu-Topper RM**

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

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D. Does not take place

Question No:90

(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. $O(\log n)$ Page 22

C. $O(n)$

D. $O(n^2)$

Question No:91

(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

D. Merged

Question No:92

(Marks:1)

Vu-Topper RM

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

Source System?

A. Timestamps

B. Partitioning

C. Triggers

D. Dimensional Modelling Page 150

Question No:93

(Marks:1)

Vu-Topper RM

The trade-offs of denormalization is/are:

A. Storage

B. Performance

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C. Ease-of-use

D. All of the given options

Page 62

ok

Question No:94

(Marks:1)

Vu-Topper RM

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

A. Syntactically dirty data

Page 160

B. Semantically dirty data

C. Coverage anomaly

D. Extraction issue

Question No:95

(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

Page 56

ok

B. Horizontal splitting

C. Adding redundant column

D. None of the given options

Question No:96

(Marks:1)

Vu-Topper RM

Question: Break a table into Multiple Tables based upon Common column values

A. Horizontal Splitting

B. Vertical splitting

C. Adding redundant column

D. None of the given option

Question No:97

(Marks:1)

Vu-Topper RM

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

A. AREA

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B. 1960s **Page 12**

C. 1970s

D. 1980s

Question No:102

(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:

A. Is syntactically dirty

B. Is semantically dirty **Page 160**

C. Has Coverage anomaly

D. Has extraction issue

Question No:103

(Marks:1)

Vu-Topper RM

OLAP is:

A. Analytical processing

Page 69

ok

B. Transaction processing

C. Additive processing

D. Active processing

Question No:104

(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

ok

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:105

(Marks:1)

Vu-Topper RM

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

A. Product

Page 79

ok

B. Region

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- C. Data
- D. None of the given

Question No:106

(Marks:1)

Vu-Topper RM

An OLTP system is always good at _____

- A. Evolving data** **Page 122** **ok**
- B. Keeping static data
- C. Tracking past data
- D. Maintaining historic data

Question No:107

(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:108

(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**
ok

Question No:109

(Marks:1)

Vu-Topper RM

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

- A. MOLAP

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B. Star Schema

Page 107

ok

C. Hybrid schema

D. Object oriented schema

Question No:110

(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:111

(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

Page 149

ok

C. Checkmark table

D. Change control table

Question No:112

(Marks:1)

Vu-Topper RM

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

A. Missing tuple

Page 161

B. Missing attribute

C. Missing aggregates

D. Semantically dirty data

Question No:113

(Marks:1)

Vu-Topper RM

Table collapsing technique is applied in case of:

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

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- B. One-to-many relation
- C. Many-to-many relation
- D. None of the given option

Question No:114

(Marks:1)

Vu-Topper RM

Which of the following is an example of dimension?

- A. Product
- B. Region
- C. Date

D. All of the given option

Page 78

Question No:115

(Marks:1)

Vu-Topper RM

Data warehouse stores _____:

- A. Operational data
- B. Historical data**
- C. Meta data
- D. Log files data

Page 24

Question No:116

(Marks:1)

Vu-Topper RM

The business processes covered by ER diagram:

- A. Do not co-exist in time and space**
- B. Co-exist in time and space
- C. Do not physically exist in real time context
- D. None of the given options

Page 109 ok

Question No:117

(Marks:1)

Vu-Topper RM

The main goal of normalization is to eliminate _____.

A. Data redundancy

Page 41

- B. Data sharing
- C. Data security

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D. Data consistency

Question No:118

(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:119

(Marks:1)

Vu-Topper RM

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:120

(Marks:1)

Vu-Topper RM

For large record spaces and large number of records , the run time of the clustering algorithms:

A. Prohibitive

Page 164

B. Static

C. Exponential

D. Numerical

Question No:121

(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:122

(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:123

(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:124

(Marks:1)

Vu-Topper RM

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

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

Question No:125

(Marks:1)

Vu-Topper RM

The ——— operator proves useful in more complex metrics applicable to the dimensions and accessibility:

- A. Max** **Page 188**
- B. Min

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- C. Max and Min
- D. None of the given

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

In OLAP, the typical write operation is _____.

- A. Bulk insertion** Page 75 ok
- B. Single insertion
- C. Sequential insertion
- D. No insertion

Question No:127 (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 ok

Question No:128 (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)

Question No:129 (Marks:1) **Vu-Topper RM**

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

- A. Fixed
- B. Partial

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C. Not at all **Page 24**

D. Slow

Question No:130

(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 **Page 20**

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

Question No:131

(Marks:1)

Vu-Topper RM

In which class of aggregates MEDIAN function can be placed?

A. Algebraic **Page 120** **ok**

B. Distributed

C. Associative

D. Holistic

Question No:132

(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 **Page 43**

D. Emp_Designation

Question No:133

(Marks:1)

Vu-Topper RM

The application of data and information leads to _____

A. Intelligence

B. Experience

C. Knowledge **Page 11**

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D. Power

Question No:134

(Marks:1)

Vu-Topper RM

_____ segregate data into separate partitions so that queries do not need to examine all data in a table when WHERE clause filters specify only a subset of the partitions.

- A. Pre-joining technique
- B. Collapsing table technique
- C. Horizontal splitting technique**
- D. Vertical splitting technique

Page 56

Question No:135

(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. Full functional dependency
- C. Multivalued dependency
- D. Transitive dependency

Google

Question No:136

(Marks:1)

Vu-Topper RM

Records referring to the same entity are represented in different formulas 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**
- B. Duplication problem
- C. Redundant duplication problem
- D. Redundant problem

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Question No:137

(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:138

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

Page 144

ok

Question No:139

(Marks:1)

Vu-Topper RM

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

- A. Triggers**
- B. Timestamps
- C. Partitioning
- D. ELT

Page 150

ok

Question No:140

(Marks:1)

Vu-Topper RM

Development of data warehouse is hard because data sources are usually_____

- A. Structured and homogeneous
- B. Unstructured and heterogeneous**
- C. Structured and heterogeneous

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D. Unstructured and homogeneous

Question No:141

(Marks:1)

Vu-Topper RM

In a 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:142

(Marks:1)

Vu-Topper RM

Information can answer question like “what”, “who” and “when” while knowledge can answer question like_____.

A. Why

B. Where

C. Which

D. How **Page 11**

Question No:143

(Marks:1)

Vu-Topper RM

OLTP implementations are fully_____.

A. Normalized **Page 69** **ok**

B. Denormalized

C. Predictive

D. Additive

Question No:144

(Marks:1)

Vu-Topper RM

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

A. Incremental Extraction **Page 133** **ok**

B. Online Extraction

C. Offline Extraction

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D. Legacy Vs OLTP

Question No:145

(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_ID
- B. Std_Name
- C. Std_CGPA

D. Std_Hobbies

Page 43

Question No:146

(Marks:1)

Vu-Topper RM

Analytical processing uses _____.

A. Multi-level aggregates

Page 74

ok

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

Question No:147

(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

Question No:148

(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

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D. Quality Establishment

Question No:149

(Marks:1)

Vu-Topper RM

Two interesting examples of quality dimensions that can make use of 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:150

(Marks:1)

Vu-Topper RM

————— in 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:151

(Marks:1)

Vu-Topper RM

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

A. High, Low **Page 22**

B. Low, High

C. High, Fixed

D. Fixed, Low

Question No:152

(Marks:1)

Vu-Topper RM

Which is not a/an characteristics of data quality?

A. Reliability **Page 186**

B. Uniqueness

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- C. Accessibility
- D. Consistency

Question No:153

(Marks:1)

Vu-Topper RM

If a product meets formally defined “requirement specifications”, yet fails to be a quality product from the customer’s perspective , this means the requirements were _____.

A. Defective Page 180

- B. Unclear
- C. Unrefined
- D. Undefined

Question No:154

(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.

Question No:155

(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:156

(Marks:1)

Vu-Topper RM

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Normalization is used to reduce_____.

A. Reduces redundancy Page 41 ok

B. Increases redundancy

C. Reduces joins

D. Reduces tables

Question No:157

(Marks:1)

Vu-Topper RM

The end user of data ware house are_____.

A. Programmers

B. Database developers

C. Data entry operator

D. Business executives Page 19

Question No:158

(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:159

(Marks:1)

Vu-Topper RM

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:160

(Marks:1)

Vu-Topper RM

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Web scrapping is a process of applying —— techniques to the web

A. Screen scrapping Page 146

- B. Data scrapping
- C. Text scrapping
- D. Meta scrapping

Question No:161

(Marks:1)

Vu-Topper RM

Which is not an issue of ROLAP in the following?

A. Standard hierarchy of dimensions Page 92

- B. Non-standard conventions
- C. Maintenance
- D. Aggregation

Question No:162

(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

Question No:163

(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:164

(Marks:1)

Vu-Topper RM

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

A. Aggregation **Page 168**

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

Question No:165

(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:166

(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:167

(Marks:1)

Vu-Topper RM

In OLTP environment, the size of tables is relatively _____

- A. Large
- B. Fixed
- C. Moderate

D. Small **Page 22**

Question No:168

(Marks:1)

Vu-Topper RM

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

A. Timeliness **Page 185**

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

Question No:169

(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 ok

Question No:170

(Marks:1)

Vu-Topper RM

A _____ Is 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 **Page 164**

- B. Cluster
- C. Entity
- D. Attribute

Question No:171

(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 **Page 185**

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- C. Accessibility
- D. Consistency

Question No:172

(Marks:1)

Vu-Topper RM

Which of the following is not an example of fact?

A. Account no **Page 74** **ok**

- B. Sales quantity
- C. Per unit sales amount
- D. Sales amount

Question No:173

(Marks:1)

Vu-Topper RM

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

A. Intrinsic data quality **Page 181**

- B. Realistic data quality
- C. Strong data quality
- D. Weak data quality

Question No:174

(Marks:1)

Vu-Topper RM

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

- A. Telecommunication data warehouse
- B. Financial data warehouse
- C. Human resource data warehouse

D. Insurance data warehouse **Page 36**

Question No:175

(Marks:1)

Vu-Topper RM

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

A. Junk **Page 127**

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- B. Time
- C. Parallel
- D. None of these

Question No:176

(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:177

(Marks:1)

Vu-Topper RM

It is observed that every year the amount of data recorded in an organization

- A. Doubles**
- B. Triples

Question No:178

(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**
- C. Database Administrator
- D. Manager

Page 18

Question No:179

(Marks:1)

Vu-Topper RM

In _____ system, the contents change with time.

- A. OLTP**
- B. ATM

Page 20

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- C. DSS
- D. OLAP

Question No:180

(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:181

(Marks:1)

Vu-Topper RM

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

Those that consider ER model as Data marts

Question No:182

(Marks:1)

Vu-Topper RM

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

Semantically dirty data

Question No:183

(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

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C. Horizontal splitting

D. Adding redundant column

Question No:184

(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:185

(Marks:1)

Vu-Topper RM

A dense index, if fits into memory, costs only _____ disk I/O access to locate a record by given key.

A. One

B. Two

C. $\lg(n)$

D. n

Question No:186

(Marks:1)

Vu-Topper RM

Which of the following option is true?

A. I Only

B. II Only

C. Both I & II

D. None of I & II

Question No:187

(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.

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A. Pipeline Parallelism

Page 214

- B. Overlapped Parallelism
- C. Massive Parallelism
- D. Distributed Parallelism

Question No:188

(Marks:1)

Vu-Topper RM

The purpose of the House of Quality technique is to reduce _____ types of risk.

A. Two

- B. Three
- C. Four
- D. All

Question No:189

(Marks:1)

Vu-Topper RM

NUMA stands for _____

A. Non-uniform Memory Access

- B. Non-updateable Memory Architecture
- C. New Universal Memory Architecture

Question No:190

(Marks:1)

Vu-Topper RM

The ___ dimension represents data correctness

A. Free-of-error

Page 187

- B. Completeness
- C. Consistency
- D. Correctness

Question No:191

(Marks:1)

Vu-Topper RM

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

A. Many-to-many element transformation **ok**

- B. One-to-one scalar transformation

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- C. One-to-many element transformation
- D. All of the given

Question No:192

(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:193

(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:194

(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 Page 190

- C. Attribute domain
- D. Using Data Quality Rulesv

Question No:195

(Marks:1)

Vu-Topper RM

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

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A. 6/12

B. 7/12

C. 1/24

Question No:196

(Marks:1)

Vu-Topper RM

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

A. Traditional joins

Page 22

B. Data warehouse

C. DSS

D. OLAP

Question No:197

(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

B. predicted

C. qualified

D. proactive

Question No:198

(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:199

(Marks:1)

Vu-Topper RM

In OLTP environments, the size of tables is relatively ___

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

Question No:200

(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

Question No:201

(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:202

(Marks:1)

Vu-Topper RM

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

A. Horizontal splitting **Page 54** **ok**

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

Question No:203

(Marks:1)

Vu-Topper RM

Companies collect and record their own operational data, but at the same

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- B. Common row values
- C. Different index values
- D. Value resulted by ad-hoc query

Question No:208

(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:209

(Marks:1)

Vu-Topper RM

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

- A. Takes place on the data warehouse server** **Page 147 ok**
- B. Takes place on a separate transformation server
- C. Depends on the nature of the source database
- D. Does not take place

Question No:210

(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:211

(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

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

Question No:212 (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:213 (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** ok
- D. 82 byte

Question No:214 (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:215 (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 model the data
- B. Well structure the data.**
- C. None of the given options
- D. Reduce query processing time

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Question No:216

(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:217

(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

ok

Question No:218

(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:219

(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

ok

- B. Simple Dimensions
- C. Multi-valued Dimension
- D. Slowly Changing Dimension

Question No:220

(Marks:1)

Vu-Topper RM

Increasing level of normalization _____ number of tables.

A. Increases

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- B. Decreases
- C. Does not effect
- D. None of the given options

Question No:221

(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

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ok

- D. Data Warehouse

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