CS-614 Data Warehosing

Update MCQS For Quiz -4 File

Solve By Vu Topper RM

85 To 100% Marks

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"What means What". The phrase refers to:

A. Meta data Page 338

B. External data

C. Transformed data

D. Internal representations

In Four Cell Quadrant Technique, the quadrant's vertical axis refers to:

A. Scope

B. Feasibility

C. Resources available

D. The potential impact or value to the business Page 297

Which of the following is NOT one of the methodologies for Data Warehouse project development?

A. Data driven

B. System driven Page 283

C. Resource driven

D. Requirement driven

Which of the following is the most ignored step during data warehouse development

A. Schema validation

B. The vision definition

C. The requirement verification

D. Success criteria development

Waterfall model is appropriate when

A. When the budget is low

B. When the deadline is strict

C. When resources are limited

D. Requirements are clearly defined Page 284

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Users do not care, how advance the front end of your DWH is, what they care is that:

A. Tables should be properly denormalized
B. Proper partitioning technique should be used
C. At least star or snow flake schema should be implemented
D. They should get information in timely manner and the way they want

A top-down implementation approach is useful when

A. Business objectives are unclear
B. Technology is mature and well understood **Page 283**
C. Problem to be solved are not well documented
D. Organization cannot implement latest technologies

Identify the TRUE statement:

A. Both clustering and classification are supervised learning
B. Both clustering and classification are unsupervised learning
C. Clustering is unsupervised learning and classification is supervised learning **Page 270**
D. Clustering is supervised learning and classification is unsupervised learning

The _____ phase of fundamental data warehouse life cycle model includes data warehouse daily maintenance activities

A. Project
B. Operation **Page 288**
C. Deployment
D. Maintenance

Horizontally wide data means:

A. Dataset has attribute skews
B. Dataset has partitioning skews
C. Dataset has large no. of records
D. Dataset has large no. of attributes **Page 330**

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Which of the following is/are included in the list of Top-7 key steps for smooth DWH implementation?

A. All of the given options Page 318
B. Be a diplomat NOT a technologist
C. Assign significant resources for ETL
D. Consider handing-off project management

Implementation of a data warehouse requires _____ activities

A. Highly integrated
B. Loosely integrated
C. Tightly decoupled
D. None of the given Page 289

Goal driven approach of data warehouse development was result of _____ work

A. Bill Inmon
B. Westerman
C. Ralph Kimball
D. Böhnlein and Ulbrich-vom Page 285

In context of analytical applications track, the application development activity can begin after:

A. Database Design is complete Page 307
B. A subset of historical data has been loaded
C. The data access tools and metadata are installed
D. All of the given options

In _____ phase of a fundamental data warehouse life cycle model, a working model of data warehouse is deployed for a selective set of users

A. Design
B. Operation
C. Prototype Page 287
D. Deployment

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Which of the following activity executes parallel with all other activities in Kimball's DWH development approach?

A. Deployment
B. Project planning
C. Project management **Page 289**
D. Requirement elicitation

The first step of the "12-steps data warehouse implementation approach" of Shaku Atre is:

A. Finding user needs **Page 336**
B. Finding system scope
C. Planning system resources
D. Data acquisition and cleansing

A typical cycle of implementing the change in DWH comprises of the sequence:

A. Production -> Development -> QA
B. Development-> QA -> Production **Page 314**
C. Development -> Production -> QA
D. Production -> QA -> Development

Which of the following is NOT one of the three parallel tracks in Kimballs approach?

A. Lifecycle technology track
B. Lifecycle Data track
C. Lifecycle Maintenance track **Page 299**
D. Lifecycle Analytical Applications track

As per Bill Inmon, a data warehouse, in contrast with classical applications is:

A. Data driven **Page 285**
B. Time sensitive
C. Resource driven
D. Requirement driven

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Normally the input data structure (a database table) for a data mining algorithm:

A. Has limited amount of data
B. Has limited amount of relations
C. Has a greater number of records than attributes
D. Has a more number of attributes than records

Normally the term "DWH face to the business user" refers to:

A. Lifecycle Data track
B. Lifecycle technology track
C. Lifecycle Maintenance track
D. Lifecycle Analytical Applications track

An effective user education program includes, among others, the following guideline(s):

A. Postpone education, if DWH not ready
B. Understand the audience, don't overwhelm
C. Train after delivery of the data and analytic applications
D. All of the given options Page 308

In _____ phase of kimballs approach, we identify the components needed now and in future.

A. Architectural design Page 294
B. Product development
C. Requirement definition
D. Analytical application development

Spiral model is _____

A. Risk oriented model
B. Risk oriented model
C. Sequence of waterfall model
D. All of the given Page 284

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In context of requirement definition phase of Kimball's DWH development approach, _____ is positioned as a findings review and prioritization meeting.

A. System analysis
B. Scope definition
C. Requirement configuration
D. Requirements wrap-up presentation Page 297

In analytical application development phase, we follow standards for:

A. Naming conventions.
B. Standard for libraries.
C. Standard for calculations.
D. All of the given option Page 307

Technical architecture design supports the communication about technical requirements: I) Within the team II) Upward to management III) Outward to vendors

A. (I) only
B. (II) Only
C. (III) Only
D. (I), (II) and (III) Page 300

In context of the most fundamental data warehouse life cycle model, which of the following is NOT one of the data warehouse design activities?

A. Source system cataloguing
B. System vision development Page 287
C. End-user interviews and re-interviews
D. Definition of key performance indicators

Improper documentation results the problem(s) like:

A. Maintenance issue
B. Lot of time required for enhancing the code
C. New developers unable to configure already existing code Page 314
D. All of the given options

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Vertically wide data means:

A. Dataset has attribute skews
B. Dataset has partitioning skews
C. Dataset has large no. of records
D. Dataset has large no. of attributes

In _____learning you don't know the number of clusters and no idea about their attributes.

A. Supervised learning
B. Un-Supervised learning **Page 269**
C. Multi Dimension modeling
D. None of the given options

Bill Inmon argues that requirements are well understood only after

A. They are documented
B. All schemes are defined
C. They extracted and verified
D. Data warehouse is populated **Page 285**

Waterfall is a/an _____ model

A. Iterative
B. Object Oriented
C. Rapid development
D. Simple linear sequential **Page 284**

Which of the following activity/activities is/are part of project planning phase in Kimballs DWH development approach?

A. Obtain resources
B. Establish the preliminary scope and justification
C. Assess organization's readiness for a data warehouse initiative
D. All of the given options **Page 290**

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Which of the following is NOT one of the examples of dynamic attributes?

A. Daily Sale
B. Air pressure
C. Date of Birth Page 342
D. None of the given options

A bottom up implementation approach is useful when

A. All the requirements are well documented
B. The business objectives are very much clear
C. Technology is mature and well understood Page 283
D. Organization cannot implement latest technologies

The phase-3 i.e. "Rollout and Maintenance" phase in "12-steps data warehouse implementation approach" of Shaku Atre comprises of _____ activity.

A. On Line Analytical Processing
B. Construct Metadata Repository
C. Deployment & System Management
D. None of the these

In lifecycle data track, we begin with translating the requirements into dimensional model, which then transforms into _____

A. System structure
B. Logical structure
C. Physical structure Page 290
D. Conceptual structure

In context of clustering, the term "distance" means:

A. Similarity/dissimilarly of records Page 272
B. The difference between the primary keys of two records
C. The relation of a record with corresponding record in child table
D. None of the given options

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As per Kimball, _____ is the main operational process

A. Goal design
B. Schema design
C. Business process **Page 285**
D. Requirement extraction

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

A. Employee Name **Page 342**
B. Employee Blood Group
C. Employee Date of Birth
D. All of the given options

Which of the following is NOT one of the possible pitfalls in DWH Life Cycle & Development?

A. Improper documentation
B. Not having multiple servers
C. Low priority for OLAP Cube Construction
D. None of the given options **Page 313**

Which of the following is NOT one of the activities of "Maintenance and Growth" phase in Kimball's DWH development approach?

A. Support
B. Education Program
C. Education Technical
D. Interface Deployment **Page 309**

_____ says that as far as company goals are concerned, the entire company pursues in the same direction

A. Bill inmon
B. Kimball
C. Bohnlein
D. Westerman **Page 285**

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One of the drawbacks of waterfall model is that:

A. It does not define the project timeline/schedule
B. It does not work when the resources are limited
C. Customers can not review the product during development Page 284
D. All of the given options

Which of the following is NOT one of the top-10 mistakes that should be avoided during DWH development?
Not interacting directly with end user
Not being an accommodating person Page 316
Isolating IT support people from business users
Training the users with dummy data and considering it success

Horizontally wide data means:
Dataset has large no. of attributes Page 30
Dataset has large no. of records
Dataset has attribute skews
Dataset has partitioning skews

In context of analytical applications track, the application development activity can begin after:
Database design is complete
A subset of historical data has been loaded
The data access tools and metadata are installed
All of the given options Page 307

Which of the following is NOT one of the top-10 mistakes that should be avoided during DWH development?
Not interacting directly with end user
Not being an accommodating person(CORRECT)
Isolating IT support people from business users
Training the users with dummy data and considering it success

Question # 3 of 10 (Start time: 10:02:05 PM) Total Marks: 1
Data mining is all about:
Select correct option:
Knowledge discovery in database

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Finding hidden patterns in data
Finding relationships in data
All of the given options (Correct)

Question # 4 of 10 (Start time: 10:02:32 PM) Total Marks: 1
In contrast to statistics, data mining is _____ driven.
Select correct option:
Assumption (Correct)
Knowledge
Human
Database

Question # 8 of 10 (Start time: 09:45:04 PM) Total Marks: 1
Which of the following is NOT one of the methodologies for Data Warehouse project development?
Select correct option:
Goal Driven
Data Driven
User Driven
System Driven (Correct)

In context of data mining definition, the term “nontrivial” means:
Select correct option:
Discovering information is a simple task
Discovering information is a complex task (Correct)
We can not discover information
We simply find things rather than discovery

Question # 5 of 10 (Start time: 10:38:58 PM) Total Marks: 1
In _____ phase of a fundamental data warehouse life cycle model, a working model of data warehouse is deployed for a selective set of users
Select correct option:
Design
Prototype (Correct)
Deployment
Operation

Question # 8 of 10 (Start time: 10:39:56 PM) Total Marks: 1
In contrast to statistics, data mining is _____ driven.
Select correct option:
Assumption
Knowledge (Correct)
Human
Database

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Question # 9 of 10 (Start time: 10:40:48 PM) Total Marks: 1
In context of data mining definition, the term “value” means:
Select correct option:
The primary key of table
The index location of the record
Importance of hidden patterns discovered (Correct)
Numerical or string measure assigned to an attribute

Question # 3 of 10 (Start time: 10:17:10 PM) Total Marks: 1
_____ refers to the overall process of discovering useful knowledge from data and data mining refers to a particular step in this process.
Select correct option:
Statistics
Knowledge discovery in database (Correct)
Clustering
Information cleansing

Question # 4 of 10 (Start time: 10:17:31 PM) Total Marks: 1
In contrast to data mining, statistics is _____ driven.
Select correct option:
Assumption (Correct)
Knowledge
Discovery
Database

Question # 5 of 10 (Start time: 10:18:01 PM) Total Marks: 1
Classification consists of examining the properties of a newly presented observation and assigning it to a predefined _____.
Select correct option:
Object
Container
Subject
Class (Correct)

1_ In context of data parallelism, the work done by query processor should be:

Maximum

2_ _____ do not (typically) keep the index values in stored order

Hash based index

3_ if every key in the data is represented in the index file then it is called

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Dense index

4_ In context of bitmap index, the length of the bit

vector is: the number of records in the base table

5_ In context of joining tables, the join condition is specified in _____ clause.

WHERE

6_ A join is identified by multiple tables in the

_____ clause. From

7_ Parallelism can be

exploited, if there is: All of

the given options

8_ In ____ index, the ith bit is set to “1” if the ith row of the base table has the value for the indexed column.

Bitmap index

9_ As the number of processors increase, the speedup should also increase. thus we should have linear speedup. Which of the following is NOT the one of the barriers to achieve this linear speed-up?

Amdah’l Law not sure

10_ Bitmap index is appropriate for:

Low cardinality data

Q1: in context of nested-loop join, actual number os matching rows returned as a result of the join would be _____ of the order of tables. Independent.

Q2: Which of the following is NOT one of the parallel hardware architecture? Shared Memory

Q3: If resources increase in proportion to increase in data size. time is constant’. The statement refers to: Scale-Up

Q4: If every key in the data file is represented in the index file then it is called? Dense Index

Q5: In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that. All

Q6: In nested-loop join case, if there are ‘M’ rows in outer table and N rows in inner table, time complexity is. o(MN)

Q7: The goal of_____ is to look at as few blocks as possib le to find the matching records(s). Indexing

Q8: Parallelism can be exploited, if there is. All of the given options

Q9: If we apply Run Length Encoding on the input “11001100”, the output will be. 21#20#21#20

Q10: Which of the following is NOT one of the variants of Nested-loop join? Binary index nested-loop join.

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Q11: In context of data parallelism, the work done by query processor should be:
Maximum.

Q12: _____ do not (typically) keep the index values in
sorted oreder Hash based Index

Q13: if every key the data file is represented in the index file then it is
called. Dense Index

Q14: In context of bitmap index, the length of the bit vector is:
The number of records in the base table

Q15; In context of joining tables, the join condition is specified in _____
clause: Where

Q16: A join is identified by multiple tables in
the_____ clause. From

Q17: Parallelism can exploited, if there is
All of the given options

Q18: In _____ index, the ith bit is set to "1" if the ith row of the base table has the value for the index column Bitmap index

Q19: As the number of processors increase, the speedup should also increase. Thus we should have linear speedup. Which of the following is NOT one of the barriers to achieve this linear speed-up? Amdahl' Law

Q20: Bitmap index is appropriate for:
Low cardinality data

Q21: If a task takes "T" time units to execute on a single data item, then execution of the task on "N" data items will take_____ time units?
N*T

Q22: _____ lists each term in the collection only once and then shows a list of all the documents the contain the given term.
Inverted index

Q23: "More resources means proportionally less time for given amount of data". The statement refers to:
Speed-UP

Q24: In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that:
All of the given option

Q25: In context of bitmap index, the length of the bit
vector is the number of records in the base table.

Q26: One of the preconditions to decide about operations to be parallelized is that:
Operation can be implemented independent of each other

Q27: A_____ index, if fits in the memory, costs only one disk I/O access to locate a record given a key.
Dense Index

Q28: In context of nested-loop join, actual number of matching rows returned as a result of the join would be ___ of the order of tables
Independent

Q29: _____ refers to " Parallelexectution of single data operation across multiple partitions of data" Data Parallelism.

A join is identified by multiple tables in the _ FROM ___ clause

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In context of joining tables, the join condition is specified in _ WHERE ___ clause

The goal of _____ ing Goal _____ is to look at as few blocks as possible to find the matching records(s).

__ Sparse Index _____ index uses even less space than __ dense ____ index, but the block has to be searched, even for unsuccessful searches.

In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that:

If we apply Run Length Encoding on the input “11001100”, the output will be:

In B-tree index, the lowest level index blocks are called leaf blocks, and these blocks contain:

every indexed data value and a corresponding ROWID

___ Sparse Index ___ index stores first value in each block in the sequential file and a pointer to

the block 1_ In context of data parallelism, the work done by query processor should be:

Maximum

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Scale-Up

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Speed-UP

Q24: In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that:
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Question # 1 of 10 (Start time: 10:37:17 PM)
Total Marks: 1 In context of data mining definition,
the term "nontrivial" means:
Select correct option:
Discovering information is a simple task
Discovering information is a complex task (Correct)
We can not discover information
We simply find things rather than discovery

In contrast to statistics, data mining is _____
driven.
Select correct
option:
Assumption
Knowledge (Correct)
Human
Database

Question # 9 of 10 (Start time: 10:40:48 PM)
Total Marks: 1 In context of data mining

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definition, the term “value” means: Select correct option:
The primary key of table
The index location of the record
Importance of hidden patterns discovered (Correct)
Numerical or string measure assigned to an attribute

Question # 3 of 10 (Start time: 09:28:57 PM) Total Marks: 1
As opposed to the outcome of classification, estimation deals with _____ valued outcome. Select correct option:
Discrete (Correct)
Isolated
Continuous
Distinct

Question # 5 of 10 (Start time: 09:30:28 PM) Total Marks: 1
Which of the following is NOT one of the methodologies for Data Warehouse project development? Select correct option:
Goal Driven
Data Driven
User Driven
System Driven (Correct)

CS614 Data Warehousing Solved MCQs from Quiz # 2 Solved and shared by Gulshan

Data mining uses _____ algorithms to discover patterns and regularities in data. Select correct option:
Mathematical
Computational
Statistical
None of these

If every key in the data file is represented in the index file then index is Select correct option:
Dense Index
Sparse Index
Inverted Index

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے
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None of these

There are many variants of the traditional nested-loop join. If the index is built as part of the query plan and subsequently dropped, it is called **Naive nested-loop join**

Index nested-loop join

Temporary index nested-loop join

None of these

Data mining evolve as a mechanism to cater the limitations of _____ systems to deal massive data sets with high dimensionality, new data types, multiple heterogeneous data resources etc.

OLTP

OLAP

DSS

DWH

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

Two

Linear

Quadratic

_____ is the technique in which existing heterogeneous segments are reshuffled, relocated into homogeneous segments.

Select correct option:

Clustering

Aggregation

Segmentation

Partitioning

The goal of ideal parallel execution is to completely parallelize those parts of a computation that are not constrained by data dependencies. The _____ the portion of the program that must be executed sequentially, the greater the scalability of the computation

Larger

Smaller

Unambiguous

Superior

_____, if fits into memory, costs only one disk I/O access to locate a record by given key. An Inverted Index

A Sparse Index

A Dense Index

None of these

If every key in the data file is represented in the index file then index is

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Dense Index
Sparse Index

A dense index, if fits into memory, costs only _____ disk I/O access to locate a record by given key.
One
Two
Linear
Quadratic
Data mining uses _____ algorithms to discover patterns and regularities in data. Mathematical
Computational
Statistical
None of these

_____, if too big and does not fit into memory, will be expensive when used to find a record by given key. An Inverted Index
A Sparse Index
A Dense Index
None of these

There are many variants of the traditional nested-loop join. If the index is built as part of the query plan and subsequently dropped, it is called
Naive nested-loop join
Index nested-loop join
Temporary index nested-loop join
None of these

The goal of ideal parallel execution is to completely parallelize those parts of a computation that are not constrained by data dependencies. The smaller the portion of the program that must be executed _____, the greater the scalability of the computation.
In Parallel
Distributed
Sequentially
None of these

To identify the _____ required we need to perform data profiling **Degree of Transformation**
Complexity
Cost
Time

Execution can be completed successfully or it may be stopped due to some error. If some error occurs, execution will be terminated abnormally and all transactions will be _____
Committed to the database
Rolled back

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.
Operational
None of these
Internal
External

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_____ in agriculture extension is that pest population beyond which the benefit of spraying outweighs its cost. Profit Threshold Level
Economic Threshold Level
Medicine Threshold Level
None of these

People that design and build the data warehouse must be capable of working across the organization at all levels **True**
False
The _____ is only a small part in realizing the true business value buried within the mountain of data collected and stored within organizations business systems and operational databases.
Independence on technology
Dependence on technology
None of these

1_ As per Bill Inmost, a data warehouse, in contrast with classical applications is:

Data driven _ pg285

2_ Which of the following is NOT one of the three parallel tracks in Kimball's approach? Lifecycle Maintenance track

Question # 3 of 10 (Start time: 04:12:51 PM) Total Marks: 1
Classification consists of examining the properties of a newly presented observation and assigning it to a predefined _____.
Select correct option:

Class (Correct)

Quiz Start Time: 04:09 PM
Time Left 25 sec(s)

Question # 4 of 10 (Start time: 04:13:44 PM) Total Marks: 1
The optimizer uses a hash join to join two tables if they are joined using an equijoin and Select correct option:

Large amount of data need to be joined (Correct) A large amount of data needs to be joined.
A large portion of the table needs to be joined.

Quiz Start Time: 04:09 PM
Time Left 20 sec(s)

Question # 5 of 10 (Start time: 04:15:07 PM) Total Marks: 1
In context of nested-loop join, actual number of matching rows returned as a result of the join would be _____ of the order of tables
Select correct option:

Independent (Correct)

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Quiz Start Time: 04:09 PM
Time Left 13 sec(s)

1 Mining multi dimensional databases
allow users to: Select correct option:

Analyze Data (Correct)

Quiz Start Time: 04:09 PM
Time Left 24 sec(s)

Question # 8 of 10 (Start time: 04:19:38 PM) Total Marks: 1
_____ refers to the overall process of discovering useful knowledge from data and data mining refers to a particular step in this process.
Select correct option:

Knowledge discovery in database (Correct)

Quiz Start Time: 04:09 PM
Time Left 17 sec(s)

Question # 9 of 10 (Start time: 04:21:01 PM) Total Marks: 1
In case of nested-loop join, Inner table is accessed _____ for each qualifying row (or touple) in outer table Select correct option:

One Time (Correct)

Quiz Start Time: 04:09 PM
Time Left 10 sec(s)

Question # 10 of 10 (Start time: 04:22:32 PM
) Total Marks: 1 In contrast to data mining,
statistics is _____ driven. knowledge (Correct)

Quiz Start Time: 08:50 PM
Time Left 55 sec(s)

Question # 1 of 10 (Start time: 08:50:34 PM)
Total Marks: 1 In context of data mining
definition, the term “value” means: Select
correct option:

The primary key of table
The index location of the record
Importance of hidden patterns discovered (Answer)
Numerical or string measure assigned to an attribute

Quiz Start Time: 08:50 PM
Time Left 22 sec(s)

Question # 2 of 10 (Start time: 08:51:23
PM) Total Marks: 1 Data mining is all
about: Select correct option:

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Knowledge discovery in database
Finding hidden patterns in data
Finding relationships in data
All of the given options (may be Answer)

Quiz Start Time: 08:50 PM
Time Left 19 sec(s)

Question # 3 of 10 (Start time: 08:52:41 PM) Total Marks: 1 In contrast to statistics, data mining is _____ driven.
Select correct option:

Assumption (Answer)
Knowledge
Human
Database

Quiz Start Time: 08:50 PM
Time Left 55 sec(s)

Question # 4 of 10 (Start time: 08:53:56 PM) Total Marks: 1 Mining multi dimensional databases allow users to:
Select correct option:

Categorize the data
Analyze the data (Answer)
Summarize the data
All of the given options

Quiz Start Time: 08:50 PM
Time Left 18 sec(s)

Question # 5 of 10 (Start time: 08:54:40 PM) Total Marks: 1 In context of data mining definition, the term “nontrivial” means: Select correct option:

Discovering information is a simple task
Discovering information is a complex task
We can not discover information
We simply find things rather than discovery (Answer)

1 In data mining, initially you _____ what you are looking for. Select correct option:

Know
Don’t know (Answer)
May or may not know
None of the given options

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Quiz Start Time: 08:50 PM
Time Left 52 sec(s)

Question # 10 of 10 (Start time: 09:00:41 PM) Total Marks: 1
The optimizer uses a hash join to join two tables if they are joined using an equijoin and Select correct option:

Outer table has less number of rows
Inner table has less number of rows
Cardinality of tables is equal
Large amount of data needs to be joined (Answer)

_____ index stores first value in each block in the sequential file and a pointer to the block.

Select correct option:

Dense

Sparse

B-Tree

Hash

In context of data parallelism, the work done by query processor should be:

Select correct option:

Almost zero

Maximum

Pipelined

Filtered across partitions

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The optimizer uses a hash join to join two tables if they are joined using an equijoin and

Select correct option:

Outer table has less number of rows

Inner table has less number of rows

Cardinality of tables is equal

Large amount of data needs to be joined

Bitmap index is appropriate for:

Select correct option:

Low cardinality data

High cardinality data

Clustered data

Aggregated data

If a task takes “T” time units to execute on a single data item, then execution of this task on “N” data items will take _____ time units.

Select correct option:

N*T

N/T

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N+T

N-T

“More resources means proportionally less time for given amount of data”. The statement refers to:

Select correct option:

Scale-Up

Speed-Up

Size-up

Over-utilized system

If we apply Run Length Encoding on the input “11001100”, the output will be:

Select correct option:

41#40

14#04

12#02#12#02

21#20#21#20

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_____ refers to “Parallel execution of single data operation across multiple partitions of data”

Select correct option: Hardware parallelism

Software parallelism

Data parallelism

Operational parallelism

In context of bitmap index, the length of the bit vector is:

Select correct option:

The possible number of domain values in corresponding field (column)

The number of records in the base table

The possible number of bitmap tables formed for corresponding field (column) None of the given options

_____ do not (typically) keep the index values in sorted order

Select correct option:

Dense index

Sparse index

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B-Tree index

Hash based index

“More resources means proportionally less time for given amount of data”. The statement refers to:

Scale-Up

Speed-Up

Size-up

Over-utilized system

In _____ index, the ith bit is set to "1" if the ith row of the base table has the value for the indexed column.

Select correct option:

Inverted index

Bitmap index

Cluster index

Join index

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An optimized structure which is built primarily for retrieval, with update being only a secondary consideration is

OLTP

OLAP

DSS

Inverted Index

"If resources increase in proportion to increase in data size, time is constant". The statement refers to:

Scale-Up

Speed-Up

Size-up

Over-utilized system

In nested-loop join case, if there are 'M' rows in outer table and 'N' rows in inner table, time complexity is

O (M log N)

O (log MN)

O (MN)

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O (M + N

_____ refers to “Parallel execution of single data operation across multiple partitions of data”

Hardware parallelism

Software parallelism

Data parallelism

Operational parallelism

In context of nested-loop join. actual number of matching rows returned as a result of the join would be _____ of the order of tables.

Dependent

Independent

Superset

Subset

Which of the following is NOT one of the parallel hardware architecture.

Symmetric Multi Processing

Masseively Parallel Processing

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Non-Uniform Memory access

Shared Memory

“If resources increase in proportion to increase in data size, time is constant”. The statement refers to:

Scale-Up

Speed-Up

Size-up

Over-utilized system

If every key in the data file is represented in the index file then index is

Dense Index

Sparse Index

Inverted Index

None

In context of data parallelism, to get a speed-up of N with N partitions.

It must be ensure that:

There are enough computing resources

Query-coordinator is very fast as compared as query servers

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Work done in each partition almost same

All given options

In nested-loop join case, if there are ‘M’ rows in outer table and ‘N’ rows in inner table, time complexity is O (M log N)

O (log MN)

O (MN)

O (M + N)

The goal of _____is to look at as few block as possible to find the matching records.

Indexing

ETL

Joining

Dimentional Modeling

Parallelism can be exploited, if there is.

Symmetric multi-processors (SMP)

Sufficient I/O bandwidth

Underutilized or intermittently used CPUs

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All of the above

Which of the following is NOT one of the variants of nested-loop join?

Naïve nested-loop join

Indexed Nested-loop join

Temporary index Nested-loop join

Binary index nested-loop join

as the number of processors increase, the speedup should also increase thus we should have linear speedup. Which of the following is not one of the barriers to achive this linear speedup?

Amdhal law

Startup

No interference

Skew

Bitmap index is approperiate lists each term in the collection only once and then shows a list of all the documents that contain the given term.

Inverted Index

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Bitmap index

Clustor index

Join index

One of the preconditions to decide about operations to be parallelized is that : Operations can be implemented independent

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

A Dense Index

A Sparse Index

An Inverted Index

None of These

1_In context of nested-loop join, actual number of matching rows returned as a result of the join would be _____ of the order of tables.

Independent

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2_which of the following is NOT one of the parallel hardware architectures? Shared memory

3 "If resources increase in proportion to increase in data size. Time is constant’.

The statement refers to:

Scale Up

4_ If every key in the data file is represented in the index file then it is called

Dense Index

5_ In context of data parallelism, to get a speed-up of N with N partitions. it must be ensured that:

All of the given option

6_ In nested-loop join case, if there are 'M' rows in outer table and 'N' rows in inner table, time complexity is o(MN)

7_ The goal of _____ is to look at as few blocks as possible to find matching records(s).

Indexing

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8_ Parallelism can be exploited, if there is:

All of the given options

9_ If we apply Run Length Encoding on the input "11001100", the

output will be: 21#20#21#20

10_ Which of the following is NOT one of variants of Nested-loop join?

Binary index nested-loop join

1_ In context of data parallelism, the work done by query processor should be:

Maximum

2_ _____ do not (typically) keep the index values in stored order

Hash based index

3_ if every key in the data is represented in the index file then it is

called Dense index

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4_ In context of bitmap index, the length of the bit vector is:

the number of records in the base table

5_ In context of joining tables, the join condition is specified in _____ clause.

WHERE

6_ A join is identified by multiple tables in the _____ clause.

From

7_ Parallelism can be exploited, if there is:

All of the given options

8_ In ____ index, the ith bit is set to "1" if the ith row of the base table has the value for the indexed column.

Bitmap index

9_ As the number of processors increase, the speedup should also increase. thus we should have linear speedup. Which of the following is NOT the one of the barriers to achieve this linear speed-up?

Amdah'l Law not sure

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10_ Bitmap index is appropriate for:

Low cardinality data

Q1: in context of nested-loop join, actual number os matching rows returned as a result of the join would be _____ of the order of tables.

Independent

Q2: Which of the following is NOT one of the parallel hardware architecture? Shared Memory

Q3: If resources increase in proportion to increase in data size. time is constant'.

The statement refers to:

Scale-Up

Q4: If every key in the data file is represented in the index file then it is called? Dense Index

Q5: In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that.

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All

Q6: In nested-loop join case, if there are ‘M’ rows in outer table and N rows in inner table, time complexity is.

o(MN)

Q7: The goal of_____ is to look at as few blocks as possib le to find the matching records(s).

Indexing

Q8: Parallelism can be exploited, if there is.

All of the given options

Q9: If we apply Run Length Encoding on the input “11001100”, the output will be. 21#20#21#20

Q10: Which of the following is NOT one of the variants of Nested-loop join?

Binary index nested-loop join.

Q11: In context of data parallelism, the work done by query processor should be:

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Maximum.

Q12: _____ do not (typically) keep the index values in sorted oreder Hash based Index

Q13: if every key the data file is represented in the index file then it is called. Dense Index

Q14: In context of bitmap index, the length of the bit vector is: The number of records in the base table

Q15; In context of joining tables, the join condition is specified in _____ clause: Where

Q16: A join is identified by multiple tables in the_____ clause. From

Q17: Parallelism can exploited, if there is

All of the given options

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Q18: In _____ index, the ith bit is set to “1” if the ith row of the base table has the value for the index column

Bitmap index

Q19: As the number of processors increase, the speedup should also increase. Thus we should have linear speedup. Which of the following is NOT one of the barriers to achieve this linear speed-up?

Amdahl’ Law

Q20: Bitmap index is appropriate for:

Low cardinality data

Q21: If a task takes “T” time units to execute on a single data item, then execution of the task on “N” data items will take_____ time units?

N*T

Q22: _____ lists each term in the collection only once and then shows a list of all the documents the contain the given term.

Inverted index

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Q23: “More resources means proportionally less time for given amount of data”.

The statement refers to:

Speed-UP

Q24: In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that:

All of the given option

Q25: In context of bitmap index, the length of the bit vector is the number of records in the base table.

Q26: One of the preconditions to decide about operations to be parallelized is that:

Operation can be implemented independent of each other

Q27: A_____ index, if fits in the memory, costs only one disk I/O access to locate a record given a key.

Dense Index

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Q28: In context of nested-loop join, actual number of matching rows returned as a result of the join would be ___ of the order of tables Independent

Q29: _____ refers to " Parallelexectution of single data operation across multiple partitions of data" Data Parallelism.

A join is identified by multiple tables in the _ FROM ___ clause

In context of joining tables, the join condition is specified in _ WHERE ___ clause

The goal of _____ ing Goal _____ is to look at as few blocks as possible to find the matching records(s).

__ Sparse Index _____ index uses even less space than __ dense ____ index, but the block has to be searched, even for unsuccessful searches.

In context of data parallelism, to get a speed-up of N with N partitions, it must be ensured that:

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If we apply Run Length Encoding on the input “11001100”, the output will be:

In B-tree index, the lowest level index blocks are called leaf blocks,

and these blocks contain:

every indexed data value and a corresponding ROWID

___ Sparse Index ___ index stores first value in each block in the

sequential file and a pointer to the block.

Question # 3 of 10 (Start time: 01:04:49 PM) Total Marks: 1
Which of the following is NOT one of the top-10 mistakes that should be avoided during DWH development?
Select correct option:
Not interacting directly with end user
Not being an accommodating person (Page No. 316)
Isolating IT support people from business users
Training the users with dummy data and considering it success

In context of analytical applications track, the application development activity can begin after: Select correct option:
Database design is complete
A subset of historical data has been loaded
The data access tools and metadata are installed
All of the given options (Page No. 307)

2. In context of data mining definition, the term “value” means:

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1. The primary key of table
2. The index location of record
3. **importance of hidden parameters discovered (Pg 250)**
4. Numerical or string measure assigned to an attribute

3. In B-tree index, the lowest level index blocks are called leaf blocks, and these blocks contain:

1. NULL value to make the leaf terminal node
2. **Every indexed data value and a corresponding ROWID (Pg 225)**
3. Every indexed data value and pointer to next level block
4. Every indexed data value and pointer to root block

4. Horizontally wide data means:

1. **Dataset has large no. of attributes**
2. Dataset has large no. of records
3. Dataset has attribute skews
4. Dataset has partitioning skews

1.In context of data parallelism, the work done by query processor should be
Ans Maximum

4. What means What". The phrase refers to: Select correct option:
Ans: Meta data
5. Which of the following is NOT one of the top-10 mistakes that should be avoided during DWH development?
Ans: Not being an accommodating person

7.Which of the following is NOT one of the top-10 mistakes that should be avoided during DWH development?
Ans: Not being an accommodating person

8.Horizontally wide data means:
Ans: Dataset has large no. of attributes

9.In contrast to statistics, data mining is _____ driven.
Ans: Knowledge

10.In nested-loop join case, if there are 'M' rows in outer table and 'N' rows in inner table, time complexity is

Ans: O (MN)

BEST OF LUCK

- *2_ Which of the following is NOT one of the three parallel tracks in Kimball's approach?*
- ***Lifecycle Maintenance track***

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- ***Clustering is unsupervised learning and classification is supervised learning _ pg 270***
-
- •
- 1_ As per Bill Inmost, a data warehouse, in contrast with classical applications is:
- Data driven _ pg285
- 2_ Which of the following is NOT one of the three parallel tracks in Kimball's approach? Lifecycle Maintenance track
- Question # 1 of 10 (Start time: 04:09:48 PM) Total Marks: 1
  In nested-loop join case, if there are 'M' rows in outer table and 'N' rows in inner table, time complexity is
  Select correct option:
- O(MN) (Correct)
- Quiz Start Time: 04:09 PM Time Left 35 sec(s)
- Question # 2 of 10 (Start time: 04:11:20 PM) Total Marks: 1 In context of data mining definition, the term "value" means: Select correct option:
- importance of hidden perameters discovered (Correct)
- Quiz Start Time: 04:09 PM Time Left 56 sec(s)
- Question # 3 of 10 (Start time: 04:12:51 PM) Total Marks: 1
  Classification consists of examining the properties of a newly presented observation and assigning it to a predefined _____. Select correct option:
- Class (Correct)
- Quiz Start Time: 04:09 PM Time Left 25 sec(s)
- Question # 4 of 10 (Start time: 04:13:44 PM) Total Marks: 1
  The optimizer uses a hash join to join two tables if they are joined using an equijoin and Select correct option:
- Large amount of data need to be joined (Correct) A large amount of data needs to be joined.
  A large portion of the table needs to be joined.
- Quiz Start Time: 04:09 PM Time Left 20 sec(s)
- Question # 5 of 10 (Start time: 04:15:07 PM) Total Marks: 1
  In context of nested-loop join, actual number of matching rows returned as a result of the join would be _____ of the order of tables Select correct option:
- Independent (Correct)
- Quiz Start Time: 04:09 PM Time Left 13

- 1

- sec(s)

Mining multi dimensional databases allow users to: Select correct option:

Analyze Data (Correct)

- Quiz Start Time: 04:09 PM Time Left 24 sec(s)
- Question # 8 of 10 (Start time: 04:19:38 PM) Total Marks: 1
  _____ refers to the overall process of discovering useful knowledge from data and data mining refers to a particular step in this process. Select correct option:
- Knowledge discovery in database (Correct)
- Quiz Start Time: 04:09 PM Time Left 17

sec(s)

- Question # 9 of 10 (Start time: 04:21:01 PM) Total Marks: 1
  In case of nested-loop join, Inner table is accessed ____ for each qualifying row (or touple) in outer table Select correct option:
- One Time (Correct)
- Quiz Start Time: 04:09 PM Time Left 10

sec(s)

- Question # 10 of 10 (Start time: 04:22:32 PM) Total Marks: 1 In contrast to data mining, statistics is _____ driven.
  knowledge (Correct)
- Quiz Start Time: 08:50 PM Time Left 55 sec(s)
- Question # 1 of 10 (Start time: 08:50:34 PM) Total Marks: 1 In context of data mining definition, the term “value” means: Select correct option:
- The primary key of table The index location of the record
  Importance of hidden patterns discovered (Answer)
  Numerical or string measure assigned to an attribute
- Quiz Start Time: 08:50 PM Time Left 22 sec(s)
- Question # 2 of 10 (Start time: 08:51:23 PM) Total Marks: 1

Data mining is all about: Select correct option:

- Knowledge discovery in database Finding hidden patterns in data
  Finding relationships in data
  All of the given options (may be Answer)
- Quiz Start Time: 08:50 PM Time Left 19 sec(s)

- 1

- Question # 3 of 10 (Start time: 08:52:41 PM) Total Marks:
  In contrast to statistics, data mining is _____ driven. Select correct option:

  Assumption (Answer)
  Knowledge
  Human
  Database

- Quiz Start Time: 08:50 PM Time Left 55 sec(s)
- Question # 4 of 10 (Start time: 08:53:56 PM) Total Marks: 1 Mining multi dimensional databases allow users to: Select correct option:
- Categorize the data
  Analyze the data (Answer)
  Summarize the data
  All of the given options
- Quiz Start Time: 08:50 PM Time Left 18 sec(s)
- Question # 5 of 10 (Start time: 08:54:40 PM) Total Marks: 1 In context of data mining definition, the term "nontrivial" means: Select correct option:
- Discovering information is a simple task
  Discovering information is a complex task
  We can not discover information
  We simply find things rather than discovery (Answer)
- Quiz Start Time: 08:50 PM Time Left 1 sec(s)

- 1 In data mining, initially you _____ what you are looking for. Select correct option:
- Know
  Don't know (Answer)
  May or may not know
  None of the given options
- Quiz Start Time: 08:50 PM Time Left 52 sec(s)
- Question # 10 of 10 (Start time: 09:00:41 PM) Total Marks: 1
  The optimizer uses a hash join to join two tables if they are joined using an equijoin and Select correct option:
- Outer table has less number of rows Inner table has less number of rows
  Cardinality of tables is equal
  Large amount of data needs to be joined (Answer)

Which of the following is NOT one of the top-10 mistakes that should be avoided during

DWH development?

Select correct option:

Not interacting directly with end user

Not being an accommodating person

Isolating IT support people from business users

Training the users with dummy data and considering it success

The phase-3 i.e. "Rollout and Maintenance" phase in "12-steps data warehouse implementation approach" of Shaku Atre comprises of _____ activity.

On Line Analytical Processing

Construct Metadata Repository

Deployment & System Management

None of the given options

Question # 8 of 10 (Start time: 10:19:05 PM) Total Marks: 1
In context of data mining definition, the term “value” means: Select correct option:
The primary key of table
The index location of the record (Correct)
Importance of hidden patterns discovered
Numerical or string measure assigned to an attribute

Question # 10 of 10 (Start time: 10:20:10 PM) Total Marks: 1
As opposed to the outcome of classification, estimation deals with _____ valued outcome.
Select correct option:
Discrete (Correct)
Isolated
Continuous
Distinct

In context of data mining definition, the term “nontrivial” means: Select correct option:
Discovering information is a simple task
Discovering information is a complex task (Correct)
We can not discover information
We simply find things rather than discovery

Data mining is all about:
Select correct option:
Knowledge discovery in database
Finding hidden patterns in data
Finding relationships in data
All of the given options (Correct)

Loosely integrated
Tightly decoupled(CORRECT)
None of the given

Question # 6 of 10 (Start time: 09:07:54 PM) Total Marks: 1
In Four Cell Quadrant Technique, The quadrant's vertical axis refers to:
Select correct option:
Scope
Feasibility
Resources available
The potential impact or value to the business(CORRECT)

2_ Which of the following is NOT one of the three parallel tracks in Kimball's approach?
Lifecycle Maintenance track

Vu Topper RM

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