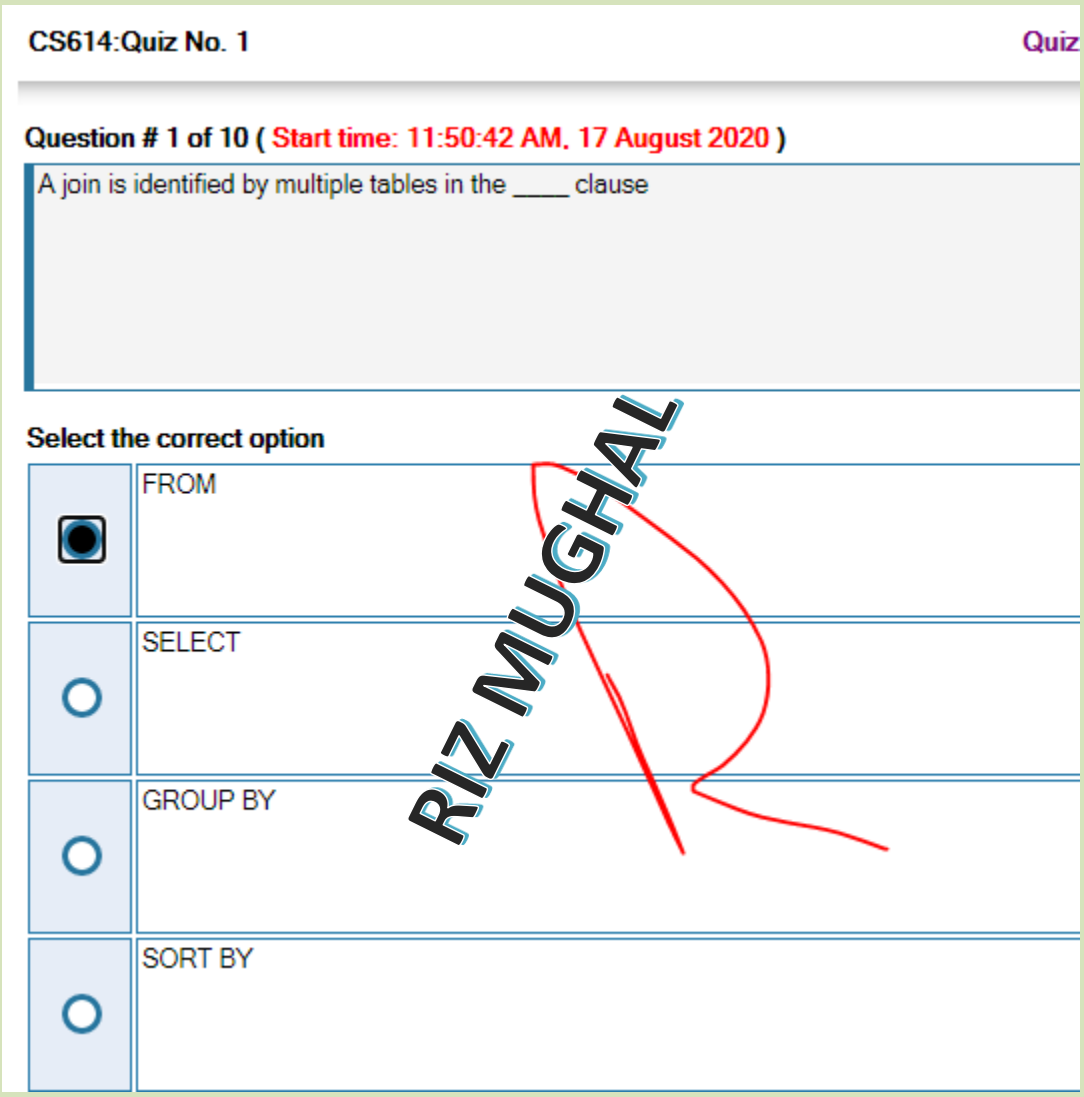
CS614 Quiz

Lec 23 to 30

Solved by Rizwan Qadeer (Riz Mughal)

Youtube link:

https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists



CS614:Quiz No. 1 Quiz Start Time

Question # 2 of 10 (Start time: 11:51:06 AM, 17 August 2020)

As opposed to the outcome of classification, estimation deals with _____ valued outcome.

Select the correct option

- ○ Discrete
- ○ Isolated
- ◉ Continuous
- ○ Distinct

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CS614:Quiz No. 1 Quiz Start Time: 11:50 AM, 17 August 20

Question # 3 of 10 (Start time: 11:51:22 AM, 17 August 2020) Total Mark

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 unit

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Select the correct option

- [x] N*T
- [ ] N/T
- [ ] N+T
- [ ] N-T

CS614:Quiz No. 1 Quiz Start Time: 11:50 AM.

Question # 4 of 10 (Start time: 11:51:39 AM, 17 August 2020)

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 the correct option

- ○ Inverted index
- ◉ Bitmap index
- ○ Cluster index
- ○ Join index

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CS614:Quiz No. 1 Quiz Start Time: 11:50

Question # 5 of 10 (Start time: 11:51:58 AM, 17 August 2020)

In context of data mining definition, the term "nontrivial" means:

Select the 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

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CS614:Quiz No. 1 Quiz Sta

Question # 6 of 10 (Start time: 11:52:17 AM, 17 August 2020)

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

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Select the correct option

- (●) Dense Index
- ( ) Sparse Index
- ( ) Inverted Index
- ( ) A Multi level Sparse Index

CS614:Quiz No. 1

Question # 7 of 10 (Start time: 11:52:35 AM, 17 August 2020)

In contrast to statistics, data mining is _____ driven.

Select the correct option

- Assumption
- Knowledge
- Human
- Database

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CS614:Quiz No. 1 Qu

Question # 8 of 10 (Start time: 11:52:53 AM, 17 August 2020)

In context of joining tables, the join condition is specified in ____ clause

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Select the correct option

- ○ FROM
- ○ SELECT
- ◉ WHERE
- ○ GROUP BY

CS614:Quiz No. 1 Quiz Start Time: 11:50

Question # 9 of 10 (Start time: 11:53:13 AM, 17 August 2020)

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

Select the correct option

- ○ Naïve nested-loop join
- ○ Indexed nested-loop join
- ○ Temporary index nested-loop join
- ◉ Binary index nested-loop join

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CS614:Quiz No. 1 Quiz Start Time: 11:50

Question # 10 of 10 (Start time: 11:53:32 AM, 17 August 2020)

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

Select the correct option

- (●) Operations can be implemented independent of each other
- ( ) Output of one operation becomes input of other
- ( ) Operations share same memory location
- ( ) Operations share same namespace

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2nd account

CS614:Quiz No. 1 Q

Question # 1 of 10 (Start time: 12:12:00 PM, 17 August 2020)

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

Select the correct option

- ○ Naïve nested-loop join
- ○ Indexed nested-loop join
- ○ Temporary index nested-loop join
- ◉ Binary index nested-loop join

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CS614:Quiz No. 1 Quiz Start Time

Question # 2 of 10 (Start time: 12:12:23 PM, 17 August 2020)

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

Select the correct option

- ○ Scale-Up
- ● Speed-Up
- ○ Size-up
- ○ Over-utilized system

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CS614:Quiz No. 1 Quiz Start Time: 12

Question # 3 of 10 (Start time: 12:12:45 PM, 17 August 2020)

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

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Select the correct option

- ○ O (M log N)
- ○ O (log MN)
- ◉ O (MN)
- ○ O (M + N)

CS614:Quiz No. 1 Quiz Start Time: 12:12 P

Question # 4 of 10 (Start time: 12:13:06 PM, 17 August 2020)

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

Select the correct option

- ○ OLTP
- ○ OLAP
- ○ DSS
- ◉ Inverted Index

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CS614:Quiz No. 1 Quiz St

Question # 5 of 10 (Start time: 12:13:30 PM, 17 August 2020)

Which of the following is NOT one of the parallel hardware architectures?

Select the correct option

- ○ Symmetric Multi Processing
- ○ Massively Parallel Processing
- ○ Non-uniform Memory Access
- ◉ Shared Memory

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CS614:Quiz No. 1 Quiz Start Time: 12:12 PM, 17 Augu

Question # 6 of 10 (Start time: 12:13:48 PM, 17 August 2020) Total

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

Select the correct option

- [x] Inverted index
- [ ] Bitmap index
- [ ] Cluster index
- [ ] Join index

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CS614:Quiz No. 1 Quiz Start Time: 12:

Question # 7 of 10 (Start time: 12:14:13 PM, 17 August 2020)

In context of data mining definition, the term "nontrivial" means:

Select the 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

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CS614:Quiz No. 1 Quiz Start Ti

Question # 8 of 10 (Start time: 12:14:36 PM, 17 August 2020)

In contrast to data mining, statistics is _____ driven.

Select the correct option

- (●) Assumption
- ( ) Knowledge
- ( ) Discovery
- ( ) Database

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CS614:Quiz No. 1 Q

Question # 9 of 10 (Start time: 12:14:53 PM, 17 August 2020)

Parallelism can be exploited, if there is:

Select the correct option

- ○ Symmetric multi-processors (SMP)
- ○ Sufficient I/O bandwidth
- ○ Underutilized or intermittently used CPUs
- ◉ All of the given options

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CS614:Quiz No. 1 Quiz Start Time: 12

Question # 10 of 10 (Start time: 12:15:10 PM, 17 August 2020)

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

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Select the 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

3rd account

CS614:Quiz No. 1 Q

Question # 1 of 10 (Start time: 12:29:26 PM, 17 August 2020)

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

Select the correct option

- (●) Dense Index
- ( ) Sparse Index
- ( ) Inverted Index
- ( ) A Multi level Sparse Index

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CS614:Quiz No. 1 Quiz Start Time: 12:2

Question # 2 of 10 (Start time: 12:29:44 PM, 17 August 2020)

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 the correct option

- ○ Inverted index
- ◉ Bitmap index
- ○ Cluster index
- ○ Join index

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CS614:Quiz No. 1 Quiz Start Time: 12:29 PM, 17 A

Question # 3 of 10 (Start time: 12:30:10 PM, 17 August 2020) To

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

Select the correct option

- O (M log N)
- O (log MN)
- O (MN) ◉
- O (M + N)

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CS614:Quiz No. 1 Qu

Question # 4 of 10 (Start time: 12:30:30 PM, 17 August 2020)

In context of data mining definition, the term "nontrivial" means:

Select the 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

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CS614:Quiz No. 1 Quiz St

Question # 5 of 10 (Start time: 12:30:46 PM, 17 August 2020)

Mining multi dimensional databases allow users to:

Select the correct option

- ○ Categorize the data
- ○ Analyze the data
- ○ Summarize the data
- ◉ All of the given options

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CS614:Quiz No. 1

Question # 6 of 10 (Start time: 12:31:04 PM, 17 August 2020)

In contrast to statistics, data mining is _____ driven.

Select the correct option

- ○ Assumption
- ◉ Knowledge
- ○ Human
- ○ Database

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CS614:Quiz No. 1 Quiz Start Time: 12

Question # 7 of 10 (Start time: 12:31:20 PM, 17 August 2020)

Which of the following is not an activity of Data Quality Analysis Project?

Select the correct option

- ○ "Define"
- ○ "Measure"
- ○ "Analyze"
- ◉ "Compression"

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CS614:Quiz No. 1 Quiz St

Question # 8 of 10 (Start time: 12:31:41 PM, 17 August 2020)

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

Select the 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

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CS614:Quiz No. 1 Quiz Start Time: 12:29 PM

Question # 9 of 10 (Start time: 12:31:58 PM, 17 August 2020)

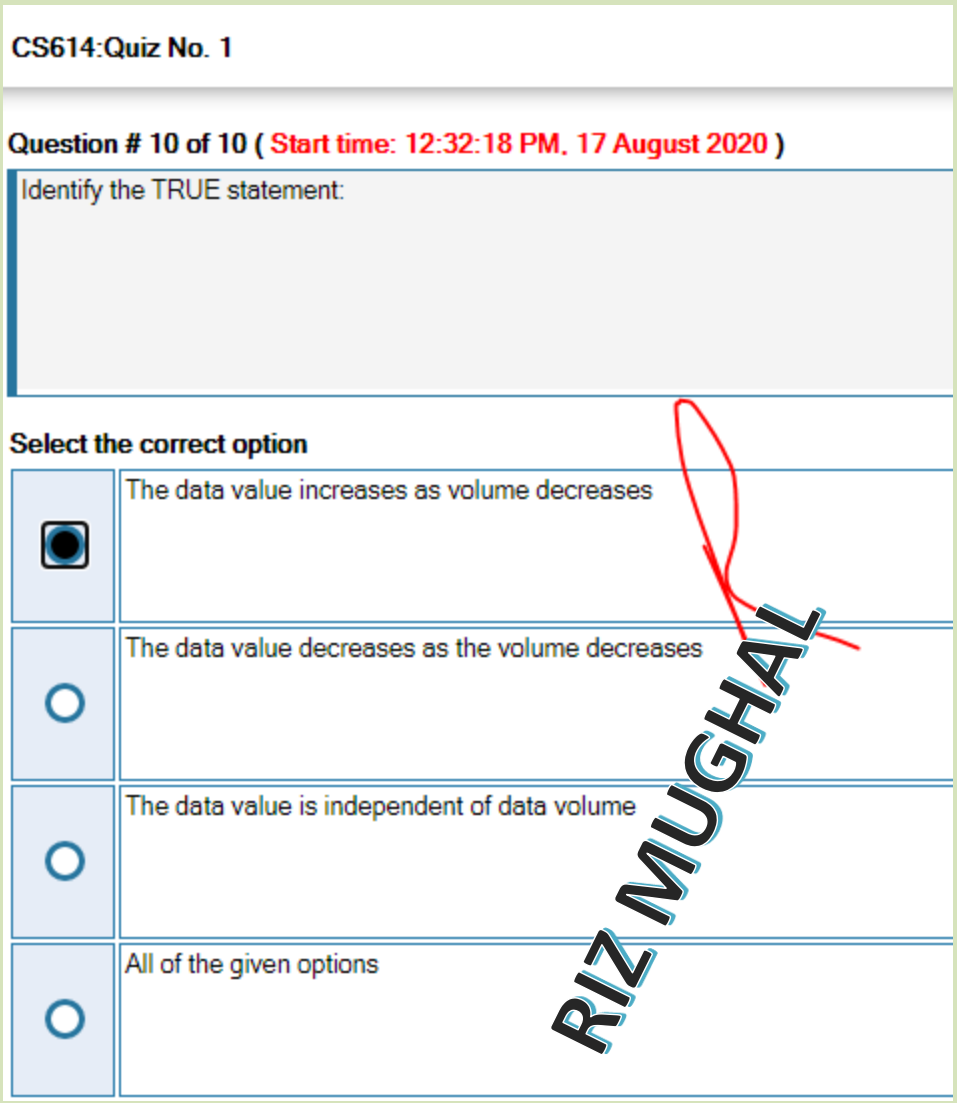
As opposed to the outcome of classification, estimation deals with _____ valued outcome.

Select the correct option

- ○ Discrete
- ○ Isolated
- ◉ Continuous
- ○ Distinct

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CS614:Quiz No. 1
Question # 10 of 10 (Start time: 12:32:18 PM, 17 August 2020)
Identify the TRUE statement:
Select the correct option
The data value increases as volume decreases
The data value decreases as the volume decreases
The data value is independent of data volume
All of the given options
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4th account

CS614:Quiz No. 1 Quiz Start Time: 12:53 PM, 17 Augus

Question # 1 of 10 (Start time: 12:53:57 PM, 17 August 2020) Total M

Classification consists of examining the properties of a newly presented observation and assigning it to a predefined _____

Select the correct option

- Object
- Container
- Subject
- [x] Class

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CS614:Quiz No. 1 Quiz Start T

Question # 2 of 10 (Start time: 12:54:41 PM, 17 August 2020)

Parallelism can be exploited, if there is:

Select the correct option

- ○ Symmetric multi-processors (SMP)
- ○ Sufficient I/O bandwidth
- ○ Underutilized or intermittently used CPUs
- ◉ All of the given options

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CS614:Quiz No. 1 Quiz Start Time: 12:

Question # 3 of 10 (Start time: 12:55:13 PM, 17 August 2020)

As opposed to the outcome of classification, estimation deals with _____ valued outcome.

Select the correct option

- ○ Discrete
- ○ Isolated
- ◉ Continuous
- ○ Distinct

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CS614:Quiz No. 1 Quiz S

Question # 4 of 10 (Start time: 12:55:45 PM, 17 August 2020)

In context of joining tables, the join condition is specified in ____ clause

Select the correct option

- FROM
- SELECT
- [x] WHERE
- GROUP BY

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CS614:Quiz No. 1 Quiz Start Tir

Question # 5 of 10 (Start time: 12:56:31 PM, 17 August 2020)

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

Select the correct option

- (●) Operations can be implemented independent of each other
- ( ) Output of one operation becomes input of other
- ( ) Operations share same memory location
- ( ) Operations share same namespace

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CS614:Quiz No. 1 Quiz Start Time: 12:53 PM

Question # 6 of 10 (Start time: 12:56:55 PM, 17 August 2020)

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

Select the correct option

- (●) Scale-Up
- ( ) Speed-Up
- ( ) Size-up
- ( ) Over-utilized system

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CS614:Quiz No. 1 Quiz Start Time: 12:53 PM, 17 August

Question # 7 of 10 (Start time: 12:57:20 PM, 17 August 2020) Total Ma

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

Select the correct option

- (●) Inverted index
- ( ) Bitmap index
- ( ) Cluster index
- ( ) Join index

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CS614:Quiz No. 1 Quiz Start Time: 12:53 PM, 17 August 2020

Question # 8 of 10 (Start time: 12:57:44 PM, 17 August 2020) **Total Marks:** 1

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?

Select the correct option

- ○ Amdahl' Law
- ○ Startup
- ◉ No Interference
- ○ Skew

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CS614:Quiz No. 1 Quiz Start Time: 12:53 PM, 17 August 202

Question # 9 of 10 (Start time: 12:58:11 PM, 17 August 2020) **Total Marks:**

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 the correct option

- ○ Dependent
- ◉ Independent
- ○ Superset
- ○ Subset

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CS614:Quiz No. 1 Quiz Sta

Question # 10 of 10 (Start time: 12:58:30 PM, 17 August 2020)

In contrast to data mining, statistics is _____ driven.

Select the correct option

- (●) Assumption
- ( ) Knowledge
- ( ) Discovery
- ( ) Database

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