Exam 2020.12.21 Results for Shikhiyev Fardin (V1M0D5)

⚠ Correct answers are hidden.

Score for this quiz: **28** out of 60 *

Submitted Dec 21 at 5:10pm

This attempt took 52 minutes.

Incorrect

Question 1   0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

... is the time while the disk controller positions the head assembly at the proper cylinder.

Rotation Latency

Question 2   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

In case of a ... index, data records are not sorted by the search key.

secondary

Incorrect

Question 3   0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index is an index that computes the value of a function or expression involving one or more columns and stores it in the index.

> multi-level

Question 4

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

... is a set of files containing records of changes made to data files.

> online redo log

Question 5

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index is an index on multiple columns in a table.

○

◉ composite

○

○

Question 6

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index is always dense.

secondary

Question 7   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... caches currently and recently used data blocks read from disk.

buffer

Question 8   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

The Oracle Database user ... owns all base tables and user-accessible views
of the data dictionary.

sys

Question 9   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

An ... is a set of logically contiguous data blocks.

extent

Question 10

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... table is a table in which the data rows are stored in no particular order on disk.

heap-organized

Question 11

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index is an index that has been divided into smaller and more manageable pieces.

partitioned

Incorrect

Question 12

0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

... is the time while the first sector of the block moves under the head.

rotation latency

Incorrect

Question 13

0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A database data block consists of one or more ...

disk block

Incorrect

Question 14   0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

... is the time while the first sector of the block moves under the head.

rotation latency

Question 15   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

RAID level ... means block level striping with dedicated parity disk.

4

Question 16   2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index has index entries for only some of the search values, typically one entry per block.

sparse

Question 17

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index physically reverses the bytes of each index key while keeping the column order.

reverse key

Incorrect

Question 18

0 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... index determines the location of the records of the data file.

composite

Question 19

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... is a schema object from which multiple users can generate unique integers.

sequence

Question 20

2 / 2 pts

Fill in the blank space (...) with the appropriate notion.

A ... is an instruction passed to the optimizer through comments in an SQL statement.

hint

Question 21

Not yet graded / 4 pts

Give estimation for T(W) if W is the result of the following query:

SELECT * FROM R WHERE A=1 AND B=2;
and we know the following parameters: T(R) = 100000, V(R,A) = 100, V(R,B) = 200.

Your Answer:

10000

Question 22

Not yet graded / 4 pts

What is the cost of a Nested Loop join algorithm if we know the following parameters:
B(R)=1000, B(S)=10000, M=1200 ?

Your Answer:

12000

Question 23

Not yet graded / 4 pts

Give estimation for B(RxS), if we know the following parameters: T(R)=1000, T(S)=2000, bf(R)=100, bf(S)=50.

Your Answer:

1500

Question 24

Not yet graded / 4 pts

What is the average cost of a selection operation (SELECT * FROM R WHERE A='x') if we use I, a B+ tree
primary index? We know the following parameters: T(R)=100000, V(R,A)=100000, HT(I)=5.

Your Answer:

20000

Question 25

Not yet graded / 4 pts

Give estimation for the number of rows of a join operation (R natural join S) if they have a common attribute A, A is key in R, A is foreign key in S, and we know the following parameters: T(R)=1000, T(S)=2000.

Your Answer:

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