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NPTEL - Introduction to Database Systems

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Unit 11 - Week 9

Course outline

Introduction to Database Systems

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Download Videos

Introduction to file organization

File organization methods

Dynamic File organization using Hashing

Index structures

Quiz - Assignment 9

Week 9 Feedback

Lecture Slides

Solution - Assignment 9

Assignment 9

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-01, 23:59 IST.

Use the following in answering the questions: 1KB = 1024 Bytes; 1MB = 1024 KB.

1) The specifications of a particular track of a hard disk are as follows: available size for data = 1 MB; number of blocks = 1024. Which of the following is a valid block size of the disk?

500 KB
1 KB
512 KB
2 MB

No, the answer is incorrect.
Score: 0
Accepted Answers:
1 KB

2) If the read/write head of a disk has just read a block on surface 4 of cylinder 100, then accessing which of the following blocks as the next block requires the least amount of time compared to others?

cylinder 100 on surface 7 block 10
cylinder 250 on surface 4 block 10
cylinder 250 on surface 7 block 10
cylinder 0 on surface 0 block 10

No, the answer is incorrect.
Score: 0
Accepted Answers:
cylinder 100 on surface 7 block 10

3) A large database relation is stored as a sorted disk file using its primary key as the ordering field. The relation is queried for the record(s) that have the primary key value greater than or equal to a given constant K. Let x denote total time taken to access the record with primary key value K, y denotes total time taken to access the block that contains the record with primary key value K, z denotes the total time taken to find the result of the query. The relation among x, y and z is

$x < y \leq z$
 $x = y \leq z$
 $y < x \leq z$
 $y \leq z < x$

No, the answer is incorrect.
Score: 0
Accepted Answers:
 $y < x \leq z$

Use the following information to answer Questions 4 and 5. Suppose extendible hashing is used to organize a file of data records. Assume that there are three data buckets B1, B2, and B3 in the file. The current directory structure has four entries with pointers to B1, B2, B1 and B3, respectively, in that order. When the hash function is applied to the key of a new record to be inserted, a value of 13 was obtained. Bucket B2 has no space for additional records.

4) After the insertion of the new record, global depth value is

2
3
4
8

No, the answer is incorrect.
Score: 0
Accepted Answers:
3

5) After the insertion of the new record, the local depths of B1 and B2, respectively, are

1, 2
1, 3
2, 2
2, 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
1, 3

6) Consider the family of hash functions $H = \{x \bmod 2, x \bmod 4, x \bmod 8, \dots\}$. Suppose linear hashing is used to insert the records of a relation into the buckets that are all initially empty. Assume that split is triggered only when we insert a record into a bucket (can be overflow bucket) that is full. Note that split is not triggered by each overflow record. Consider the following initial setting of the buckets: Size of each bucket = 2 records; Number of buckets = 2. Suppose the hash field values of the records, in the order of insertion, are 1, 2, 3, 4, 5, 7, 8. Let A be the collection of all buckets in which the records are stored and B be the set of overflow buckets among A. The number of buckets in A and B, respectively, are

4, 1
4, 0
5, 1
5, 0

No, the answer is incorrect.
Score: 0
Accepted Answers:
6, 1

Use the following information to answer Questions 7 and 8. A sorted file has the following details: Number of records = 13,10,720; record length = 200 bytes; size of the primary key field = 13 bytes; size of block pointer = 7 bytes; block size = 2048 bytes. For this file, we need to build a multi-level index on the primary key.

7) The blocking factors for the data file and the index file, respectively, are

11, 282
10, 100
11, 101
10, 109

No, the answer is incorrect.
Score: 0
Accepted Answers:
10, 102

8) The number of blocks in the first level index file is:

131072
1311
1310
1286

No, the answer is incorrect.
Score: 0
Accepted Answers:
1286

9) The blocking factor of the first level of a secondary index built on a non-ordering key-field is independent of which of the following?

block size
length of the block pointer
length of the non-ordering key field
length of record pointer

No, the answer is incorrect.
Score: 0
Accepted Answers:
length of the block pointer

10) A data file with 1,00,000 records is stored on a disk. Consider a multi-level secondary index built on a non-ordering key-field of this file. Which of the following is true about this index?

The first level index is an ordered file sorted on the primary key.
The number of entries in the last level index is independent of the block size.
The number of entries in the first level index is 1,00,000.
The number of entries in the last level index is always 1.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The number of entries in the first level index is 1,00,000

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IBM Maximo Manage v9.0 Functional Deployment - Professional Sample Questions (Q65-Q70):

NEW QUESTION # 65

Which benefits are achieved by linking Service Level Agreements with Service Requests in Maximo Manage?

- A. Automatic creation of depreciation schedules
- **B. Escalations triggered when targets are missed**
- C. Configuration of meter-based triggers
- **D. Automatic measurement of response and resolution targets**

Answer: B,D

NEW QUESTION # 66

What describes how inspections in Maximo Manage help maintenance teams ensure regulatory compliance?

- A. They record depreciation values for assets
- B. They manage vendor contracts
- **C. They guide technicians through standardized checklists during work orders**
- D. They approve purchase requisitions automatically

Answer: C

NEW QUESTION # 67

Which feature enables users to record the consumption of materials from storerooms?

- A. Inventory Usage application
- B. Calendar application
- C. Workflow application
- D. Job plan application

Answer: A

NEW QUESTION # 68

How should security be configured in Maximo if a company wants maintenance technicians to only access work orders while planners can configure job plans and routes?

- A. Limit permissions through calendar assignments
- B. Allow manual overrides by administrators only
- C. Create role-specific security groups with permissions tailored to each role
- D. Assign all users to a single general security group

Answer: C

NEW QUESTION # 69

How should an administrator configure Maximo Manage when a company with multiple business units needs each unit to follow its own financial rules while still maintaining centralized oversight?

- A. Create separate organizations with distinct rules and link sites to them
- B. Use domains to manage financial accounts directly
- C. Configure all sites under one organization with identical settings
- D. Define workflows only for cost approvals

Answer: A

NEW QUESTION # 70

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