Course   Discussion   Progress   Notes

‹ Previous   Next ›

Quiz 4

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Multiple Choice

2.0/2.0 points (graded)

You are creating a new product using blockchain technology to help in the process of supply chain management for an international bank. While designing the system, you need to decide how to optimize the data storage while considering the following:
a. Since it is a large corporation, there will be thousands of transactions per second
b. To be able to verify a transaction, the product needs to reach a consensus on the existing blockchain at least once per hour. This means that the leading block data must be accessed once every hour
c. Only a handful of managers will be accessing the data to check if the supply chain is in order once every day
d. The data needs to be backed up at the end of every business day
You know that during optimization there is a tradeoff between focusing on storage efficiency versus speed of access. Which optimization is the more important choice and why?

- ◯ Speed of access is more important because the managers are going to be checking the data

- ◉ Storage efficiency is more important because the data has to be backed up every day

- ◯ Speed of access is more important because the product has to be able reach a consensus every hour

- ◯ Storage efficiency is more important because there are thousands of transactions per second

✔

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Multiple Choice

2.0/2.0 points (graded)

Which of the following statement is true?

- ◉ Denormalizing increases speed of access while it reduces storage efficiency

- ◯ Intrafile clustering increases storage efficiency as well as speed of access

- ◯ Normalization decreases both storage efficiency as well as speed of access because it removes redundant data

- ◯ All of the above

✔

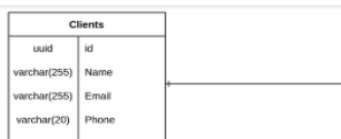Submit   You have used 1 of 1 attempt   ⓘ Show Answer
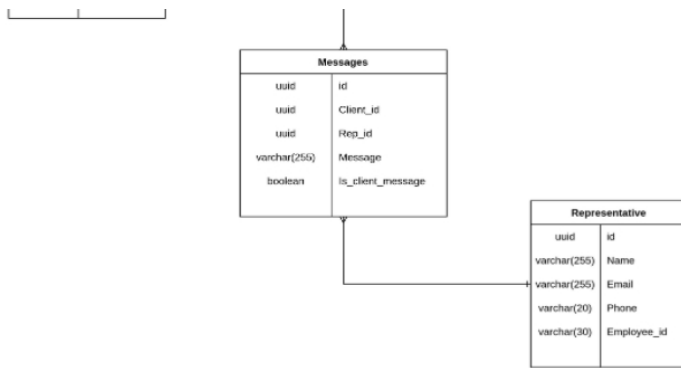
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Multiple Choice

2.0/2.0 points (graded)

Customer Relationship Management (CRM) software allows B2C businesses to maintain relationships with their customers by providing a platform on which the customer can directly communicate with a business representative or vice versa. The image below shows a small part of the physical model. State what is the mistake in it.

Messages

uuid	id
uuid	Client_id
uuid	Rep_id
varchar(255)	Message
boolean	Is_client_message

Representative

uuid	id
varchar(255)	Name
varchar(255)	Email
varchar(20)	Phone
varchar(30)	Employee_id

○ The id has to be of integer format instead of uuid

○ The Employee_id in the Representatives table has to be of integer type

◉ The diagram is a logical model and not a physical model because it can be further optimized

○ There is nothing wrong with the shown physical model

✔

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Multiple Choice

2.0/2.0 points (graded)

What is the main main advantage of using De-Normalization?

○ Update is cheap

◉ Data retrival is faster

○ Less storage is needed

○ Data becomes consistent

✔

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Multiple Choice

2.0/2.0 points (graded)

What indexing technique can do?

○ a. Sorts a file using a primary key

○ b. Sorts file using primary/foriegn keys

◉ c. Establishes an index for a file

○ both (b) and (c)

○ both (a) and (c)

✔

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Multiple Choice

2.0/2.0 points (graded)

In User interface design, screen layout denotes,

- ○ Graphical design and placement of icons
- ○ To define of descriptive screen text, specification and titling of windows
- ○ Specification of major and minor menu items
- ● All of the above

✔

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Multiple Choice

2.0/2.0 points (graded)

Which statement is false while desiging Navigation?

- ○ All controls should be placed in an intuitive location
- ○ Labeling commands appropriately
- ● Provide as much as choices to avoid mistakes
- ○ Use object action grammer order

✔

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Multiple Choice

2.0/2.0 points (graded)

In system analysis and design which of the following is / are true?

- ○ a. It is an effective communication medium between a human and a computer
- ○ b. It identifies interface objects and actions
- ○ c. It creates a screen layout that forms the basis for a user interface prototype
- ○ a and c
- ● All of the mentioned above

✔

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Multiple Choice

2.0/2.0 points (graded)

Your company has just been contacted by a huge client who would want to see a prototype for a software that they want before awarding you with the contract. The client said that if they like the prototype, then they expect delivery of the software as soon as possible. How would you design the prototype?

- ○ Physical Storyboard
- ○ Digital Storyboard (Illustrator, Photoshop, Figma, etc.)
- ○ HTML Prototype

○ Language Prototype

✓

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Multiple Choice

2.0/2.0 points (graded)

Which one of the following is the most visible part of a system?

○ navigation

○ input

● output

○ keystrokes

✓

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