

L1 : Introduction to DBMS Practice Questions

1-Tut : MCQ - 1

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Data can be used to make decisions only if:

Options

This problem has only one correct answer

It is in huge volume

It can be processed into information

It is electronically generated

It contains numbers

Correct Answer : B

Solution Description

Information is required to make decisions and information is nothing but processed data.

2-Tut : MCQ - 2

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Which of the following is data:

Options

This problem has only one correct answer

Web page

Image shot from phone

Fingerprint

All of the above

Correct Answer : D

Solution Description

Web pages contain different text, images, etc which act as a huge amount of data for data processing.

Image shot from the phone is data which can be used to gather some information.

The fingerprint is data that can be used to identify a particular person as it's unique for everyone.

3-Tut : MCQ - 3

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Anything which stores only unstructured data can be called a database.

Options

This problem has only one correct answer

True

False

Correct Answer : B

Solution Description

It is not true as a database can contain both structured and unstructured data. Relational Databases contain only structured data whereas NoSql (Eg: MongoDB) can contain unstructured data.

4-Tut : MCQ - 4

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Which of the following is not true:

Options

This problem has only one correct answer

Database and Database management system (DBMS) are the same

Database stores data.

Database management system is a software.

All of the above.

Correct Answer : A

Solution Description

Database stores data whereas DBMS is a software which helps us in creating, retrieving, manipulating and managing the database.

5-Tut : MCQ - 5

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Which of the following is the purpose of DBMS:

Options

This problem has only one correct answer

Creation of database

Manipulation of data

Retrieving data from database

All of the above

Correct Answer : D

Solution Description

Database Management System (DBMS) is a software system used to store, retrieve, run queries on data, or manipulate it. It also acts as an interface between a client and a database, allowing them to read, create, update, or delete data in the database.

6-Tut : MCQ - 6

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File based systems faces data integrity issues because:

Options

This problem has only one correct answer

Files contains textual information
Large data is stored in files
Duplicate files may have different values
Files are changed frequently

Correct Answer : C

Solution Description

File-based systems face data integrity issues because each file is unique in itself and the content is hence local to it. Data present in different files are not linked with each other. So suppose there is file A and we create its copy "Copy of A" for future purposes. If someone changes the content of file A, then the content present in "Copy of A will not change, and hence the data will be inconsistent in both the files now.

7-Tut : MCQ - 7

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What does same data being saved in multiple locations called

Options

This problem has only one correct answer

Inconsistency
Redundancy
Integrity
Security

Correct Answer : B

Solution Description

Repeating the same data at different locations is called the redundancy of data. In file-based systems, it is very difficult to keep track of redundancy.

8-Tut : MCQ - 8

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In File based systems it is easy to maintain concurrency control when multiple users are updating the same file.

Options

This problem has only one correct answer

True
False

Correct Answer : B

Solution Description

A concurrency control system should provide safe access to shared information, removing the risk of collisions but in a file system, it can cause data integrity problems. Hence concurrency is not easy to achieve in a file-based system.

9-Tut : MCQ - 9

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File System in which each teacher of a college is maintaining their separate files concerning the same subjects taught in the course would lead to :

Options

This problem has only one correct answer

High data integrity

High data redundancy

High data security

High efficiency to access data

Correct Answer : B

Solution Description

Since The given scenario will lead to presence of the same data at multiple locations , hence it will lead to high redundancy.

10-Tut : MCQ - 10

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If your laptop has the application like MS Access which is fetching data from some other system then it is an example of which type of architecture :

Options

This problem has only one correct answer

1 tier

2 tier

3 tier

None of the above.

Correct Answer : B

Solution Description

Since in a two-tier architecture, an interface runs on a client, and a data layer gets stored on a server. In the case of MS access also, an interface is running on your laptop which is actually fetching data from some database on another system. Hence it is an example of 2-tier architecture.

11-Tut : MCQ - 11

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In a software architecture which of the following is responsible for computing the result and returning it:

Options

This problem has only one correct answer

Client

Server

Correct Answer : B

Solution Description

In software architecture Server is responsible for all the heavy computations and returning their result and client is only responsible for displaying them through an interface.

12-Tut : MCQ - 12 (Data Sharing)

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What do you mean by data sharing in DBMS:

Options

This problem has only one correct answer

Same information is visible to everyone

Different information is visible to everyone

Different versions of information is visible to everyone

Anyone can access data

Correct Answer : A

Solution Description

The act of sharing the same data resource with multiple applications or users is known as data sharing. In the case of DBMS when the same information is visible to everyone , it is called data sharing.

13-Tut : MCQ - 13 (Drawback of DBMS)

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What is/are the drawback of using DBMS:

Options

This problem has only one correct answer

Requires training

Complex to use

It is costly

All of the above

Correct Answer : D

Solution Description

Using DBMS leads to the following disadvantages:

->It requires training because of the complexity associated with it.

->It is complex to use for non-technical users as it isn't easy to maintain and manage the database systems.

->It has a very high cost associated with it as it requires a high-speed processor and huge memory size to use the database on the DBMS.