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WGU C175 Data Management-Foundations. Full Coverage. Questions and answers. Graded A+

Flat files - ✓✓-What is a file having no internal hierarchy

Heap files - ✓✓-What are files containing an unsorted set of records that are uniquely identified by a record id which allows them to be inserted or deleted using that id

Index files - ✓✓-What are files that store a list of lookup field values from a data file - along with the location (address) in the data file of the corresponding record. Because the lookup field is much smaller than the entire record, the entire index will usually fit in main memory for quick look up. Once the address of the record is obtained from the index, the entire record can then be directly accessed from the data file instead of reading in the entire data file - record by record, in order to locate the desired one.

Hashed files - ✓✓-What are files are encrypted using hash functions that convert data consisting of various formats into numeric values. This allows for faster data lookup without the use of an index file

-What are some advantages of a DBMS

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WGU Data Management – Foundations Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

What is the role of the transaction manager within the database system architecture?

- A. The transaction manager logs insert, update, and delete queries, and the result is sent back to the application.
- B. The transaction manager is composed of a query processor, storage manager, transaction manager, log, and catalog.
- C. The transaction manager translates the query processor instructions into filesystem commands and uses an index to quickly locate the requested data.
- D. The transaction manager uses information from the catalog to perform query optimization.

Answer: A

Explanation:

A Transaction Manager ensures ACID (Atomicity, Consistency, Isolation, Durability) properties in database transactions. It manages concurrent transactions, ensuring no conflicts occur and logs modifications to support recovery mechanisms.

* Option A (Incorrect): Query optimization is managed by the query processor, not the transaction manager.

* Option B (Incorrect): The transaction manager is a component of the database architecture but is not composed of the entire system (query processor, storage manager, etc.).

* Option C (Correct): The transaction manager logs transactions like INSERT, UPDATE, and DELETE, ensuring consistency and recoverability.

* Option D (Incorrect): The storage manager is responsible for translating queries into filesystem commands.

NEW QUESTION # 37

Which product has an open-source license in addition to having a non-relational system?

- A. Oracle Database
- B. MySQL
- C. SQL Server
- D. MongoDB

Answer: D

Explanation:

MongoDB is a NoSQL (non-relational) database that is open-source and supports document-oriented storage

. It allows for flexible schema design and is optimized for big data applications.

* Option A (Correct): MongoDB is a NoSQL database with an open-source AGPL license, making it both free to use and non-relational.

* Option B (Incorrect): SQL Server is a relational database (RDBMS) developed by Microsoft and is not open-source.

* Option C (Incorrect): MySQL is open-source but is a relational database (RDBMS), not a NoSQL system.

* Option D (Incorrect): Oracle Database is relational and proprietary (not open-source).

NEW QUESTION # 38

What is the role of a query processor in the database system architecture?

- A. It sends results back to the application that requested the queries.
- B. It uses information from the catalog to perform query optimization.
- C. It writes log records before applying changes to the database.

- D. It translates instructions into file system commands.

Answer: B

Explanation:

A query processor is responsible for query optimization and execution in a database management system (DBMS). It analyzes SQL statements, optimizes execution plans, and ensures efficient retrieval of data.

- * Option A (Correct): The query processor optimizes queries by analyzing metadata from the system catalog to determine the best execution strategy.
- * Option B (Incorrect): Logging transactions before applying changes is the responsibility of the transaction manager.
- * Option C (Incorrect): Translating instructions into file system commands is handled by the storage manager, not the query processor.
- * Option D (Incorrect): While the query processor helps retrieve results, the database engine and API layer are responsible for returning results to applications.

NEW QUESTION # 39

Which syntax feature classifies the explicit string, numeric, or binary values used in SQL queries?

- A. Comments
- **B. Literals**
- C. Keywords
- D. Identifiers

Answer: B

Explanation:

In SQL, literals represent explicit values such as numbers, strings, or binary data directly written into queries.

For example:

SELECT * FROM Employees WHERE Salary > 50000;

Here, 50000 is a numeric literal.

- * Option A (Correct): Literals are explicit values used in SQL queries, such as 123, 'John Doe', and TRUE.
- * Option B (Incorrect): Comments are non-executable text used for documentation within SQL code, typically denoted by -- or /* ... */.
- * Option C (Incorrect): Identifiers are names of tables, columns, or other database objects, such as EmployeeID.
- * Option D (Incorrect): Keywords are reserved words in SQL (e.g., SELECT, FROM, WHERE) that define operations and syntax.

NEW QUESTION # 40

Which function measures a numeric value's distance from 0?

- A. FROM
- B. CONCAT
- C. LOWER
- **D. ABS**

Answer: D

Explanation:

The ABS() function in SQL returns the absolute value of a given number, effectively measuring its distance from zero.

Example Usage:

```
sql
SELECT ABS(-50), ABS(50);
```

Result:

50 | 50

* This function ensures that numbers are always positive, regardless of their original sign.

Why Other Options Are Incorrect:

- * Option A (CONCAT) (Incorrect): Used to combine strings (not numbers).
- * Option B (LOWER) (Incorrect): Converts text to lowercase, not numerical operations.
- * Option C (FROM) (Incorrect): Part of SELECT FROM queries, not a function.

Thus, the correct choice is ABS(), which computes the absolute value of a number.

NEW QUESTION # 41

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