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## WGU C175/D426 DATA MANAGEMENT FOUNDATIONS OA EXAM Questions With Verified Answers (100% Correct) Graded A+

### VERSION A

What does modality refer to? How does it appear on ER diagram? - ANSWER- Refers to the MINIMUM number of times an instance in one entity can be associated with instance of another entity (minima) Appears as a 0 or 1 on the relationship line, next to cardinality

Define: Referential Integrity - ANSWER- Requires that ALL foreign key values must either be fully NULL or match some primary key value

4 Ways Referential Integrity can be violated: - ANSWER- 1. Primary key is updated  
2. Foreign key is updated  
3. Row containing primary key is DELETED  
4. Row containing foreign key is INSERTED

4 Actions to Correct Referential Integrity Violation: - ANSWER- 1. RESTRICT - rejects an insert, update, or delete  
2. SET NULL - sets invalid foreign keys to null  
3. SET DEFAULT - sets invalid foreign keys to a default primary value  
4. CASCADE - propagates primary key changes to foreign keys

What is an important aspect to referential integrity? - ANSWER- reference to data in one relation is based on values in another relation

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### WGU Data Management – Foundations Exam Sample Questions (Q20-Q25):

#### NEW QUESTION # 20

What is the last step in the logical design process for designing a database?

- A. Discover entities
- B. Determine cardinality
- C. **Apply a normal form**
- D. Analyze data requirements

#### Answer: C

Explanation:

The logical design phase in database development focuses on structuring data efficiently to eliminate redundancy and ensure integrity. The final step in logical design is to apply normalization (normal forms) to optimize the database schema.

Steps in Logical Database Design:

- \* Discover entities# Identify real-world objects (e.g., Customers, Orders).
- \* Determine cardinality# Define relationships between entities (one-to-one, one-to-many).
- \* Analyze data requirements# Determine the attributes each entity needs.
- \* Apply normal forms# Eliminate redundancy and improve data consistency.

Example Usage:

- \* After identifying entities like Students and Courses, applying 3rd Normal Form (3NF) ensures that data is organized without redundancy.

Why Other Options Are Incorrect:

- \* Option A (Analyze data requirements) (Incorrect): Done earlier to define attributes.
- \* Option C (Determine cardinality) (Incorrect): Done before normalization to establish relationships.
- \* Option D (Discover entities) (Incorrect): Done at the beginning of database design.

Thus, the correct answer is **Apply a normal form**, as normalization is the last step in logical design.

#### NEW QUESTION # 21

Which function is considered an aggregate function?

- A. ABS
- B. **MAX**
- C. TRIM
- D. DESC

#### Answer: B

Explanation:

Aggregate functions perform calculations on a set of values and return a single result. MAX() is one such function, returning the largest value in a column.

Common Aggregate Functions:

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Function	Description
SUM()	Returns the total sum of a column.
AVG()	Returns the average value.
COUNT()	Returns the number of rows.
MIN()	Returns the smallest value.
MAX()	Returns the largest value.

Example Usage:

```
sql
SELECT MAX(Salary) FROM Employees;
* Retrieves the highest salary in the Employees table.
```

Why Other Options Are Incorrect:

- \* Option B (TRIM) (Incorrect): Removes spaces from strings but is not an aggregate function.
- \* Option C (ABS) (Incorrect): Returns the absolute value of a number but does not aggregate multiple rows.
- \* Option D (DESC) (Incorrect): Used in ORDER BY for sorting in descending order, not for aggregation.

Thus, the correct answer is MAX(), as it is a true aggregate function.

## NEW QUESTION # 22

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 uses information from the catalog to perform query optimization.
- D. The transaction manager translates the query processor instructions into filesystem commands and uses an index to quickly locate the requested data.

**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 # 23

Which function removes only the leading spaces from a string?

- A. REPLACE
- B. LTRIM
- C. TRIM
- D. LEFT

**Answer: B**

Explanation:

The LTRIM() function in SQL removes leading spaces (spaces at the beginning of a string) while keeping spaces at the end.

Example Usage:

```
sql
SELECT LTRIM('Hello World') AS TrimmedText;
```

Output:

bash

'Hello World'

Why Other Options Are Incorrect:

\* Option B (LEFT) (Incorrect): Used for extracting a portion of a string. Example:

sql

```
SELECT LEFT('Hello World', 5); -- Output: 'Hello'
```

\* Option C (TRIM) (Incorrect): Removes both leading and trailing spaces, not just leading ones.

Example:

sql

```
SELECT TRIM(' Hello World '); -- Output: 'Hello World'
```

\* Option D (REPLACE) (Incorrect): Replaces occurrences of one substring with another but does not specifically remove spaces.

Thus, the correct answer is LTRIM(), which removes only leading spaces.

## NEW QUESTION # 24

Which type of entity only exists in a logical sense?

- A. Intangible entity
- B. Concrete entity
- C. Tangible entity
- D. Physical entity

**Answer: A**

Explanation:

An intangible entity is an entity that does not have a physical presence but still holds meaning in a database.

These entities represent concepts, relationships, or abstract data that exist in a logical sense.

Example Usage in Databases:

\* Customer Loyalty Status (Gold, Silver, Bronze)

\* The loyalty level is an intangible entity since it is derived from other data (purchase history).

\* Online User Sessions

\* A session ID exists logically in the system but does not have a tangible presence like a product or employee.

Why Other Options Are Incorrect:

\* Option A (Concrete entity) (Incorrect): No such formal term in database design.

\* Option B (Tangible entity) (Incorrect): Represents something physical, like an employee or product.

\* Option D (Physical entity) (Incorrect): Refers to data stored on disk, like database tables or indexes.

Thus, the correct answer is Intangible entity, as it only exists in a logical sense within the database.

## NEW QUESTION # 25

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