2026 Authoritative WGU Data-Management-Foundations: WGU Data Management–Foundations Exam Study Reference

Data Management - Foundations - D426 WGU Objective Practice Exam with Questions and Answers 100% Correct and Revised

1. **Data:** numeric, textual, visual or audio information that describes real-world systems.

varies in ways such as scope, format, access.

2. **analog data:** Historically most common before computers, encoded as continuous variations on various physical media.

3. **digital data:** most common today, recorded as 0's and 1's on electronic and magnetic media.

4. **database designer:** determines the format of each data element and the overall database structure

5. **database user:** a consumer of data in a database. can either use an application or submit queries directly to the database. they use, request and update data. to generate reports

6. **transaction:** a group of queries that must be completed or rejected as whole. will result in incomplete or incorrect data if not terminated as a whole.

7. **Query processor:** interprets queries, creates a plan to modify the database or retrieve data, and returns query results to the application.

8. **Query optimization:** to ensure the most efficient instructions are executed on the data from the processor.

9. **Storage Manager:** translates the query processor instructions into low-level file-system commands that modify or retrieve data.

10. **indexes:** used by the storage manager to quickly locate data

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WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	• Data management: This section of the exam measures skills of Data Managers and covers core concepts of data modeling, database architecture, and the implementation of relational database systems. Learners study database design fundamentals and are evaluated on their ability to organize, store, and retrieve data efficiently.
Topic 2	• Statistical analysis: This section of the exam measures skills of Data Scientists and emphasizes the use of statistical techniques to interpret and summarize data. Candidates are assessed on applying descriptive and inferential statistics to draw valid conclusions from datasets.
Topic 3	• Leadership and management: This section of the exam measures skills of Project Managers and explores leadership roles in managing data-driven projects and teams. Learners are introduced to the concepts of project planning, decision making, and stakeholder communication in the context of data management.
Topic 4	• Model deployment and storytelling: This section of the exam measures skills of Data Engineers and includes operationalizing machine learning models and presenting analytical results in a compelling narrative. The content addresses model validation and the communication of insights in ways that foster business understanding and action
Topic 5	• Data wrangling: This section of the exam measures skills of Data Analysts and involves preparing, cleaning, and transforming data into suitable formats for analysis. The focus is on resolving data inconsistencies, handling missing values, and reformatting data to maintain accuracy for analysis tasks.

WGU Data Management – Foundations Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30
Which type of join selects all the rows from both the left and right table, regardless of match?

- A. Full Join
- B. Outer Join
- C. Cross Join
- D. Inner Join

Answer: A

Explanation:
A Full Join (FULL OUTER JOIN) selects all records from both tables, filling in NULL values where there is no match. This ensures that no data is lost from either table.
Example Usage:
sql
SELECT Employees.Name, Departments.DepartmentName
FROM Employees
FULL OUTER JOIN Departments ON Employees.DeptID = Departments.ID;
* This query retrieves all employees and all departments, even if an employee has no assigned department or a department has no employees.
Types of Joins:
* FULL OUTER JOIN (Correct Answer)# Includes all rows from both tables, filling missing values with NULL.
* LEFT JOIN (Incorrect)# Includes all rows from the left table and matching rows from the right table.
* RIGHT JOIN (Incorrect)# Includes all rows from the right table and matching rows from the left table.
* CROSS JOIN (Incorrect)# Produces a Cartesian product (each row from one table is combined with every row from another table).

Thus, the correct answer isFULL JOIN, whichensures that all rows from both tables appear in the result.

NEW QUESTION # 31
Which SELECT statement uses valid syntax for SQL?

- A. SELECT "column name", "column name" FROM "table name" WHERE "column name"
- B. SELECT column1, column2 FROM table_name;
- C. SELECT column1, column2 WHERE condition FROM table_name;
- D. SELECT ALL column1, column2 FROM table_name;

Answer: B

Explanation:
Avalid SELECT statementin SQL follows this basic syntax:
sql
SELECT column1, column2
FROM table_name
WHERE condition;
The correct optionDfollows this syntaxcorrectly.
Why Other Options Are Incorrect:
* Option A (Incorrect):SQL does not usedouble quotes(") around column/table names unless explicitly required in some databases.
* Option B (Incorrect):The WHERE clausemust appear after the FROM clause.
* Option C (Incorrect):ALL isnota valid keyword in standard SQL queries.
Thus,Option Dfollows the correct SQL syntax.

NEW QUESTION # 32
What is the role of the transaction manager within the database system architecture?

- A. The transaction manager is composed of a query processor, storage manager, transaction manager, log, and catalog.
- B. The transaction manager logs insert, update, and delete queries, and the result is sent back to the application.
- 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: B

NEW QUESTION # 33
Which function removes only the leading spaces from a string?

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

Answer: D

Explanation:
TheLTRIM()function in SQL removesleading 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):Removesboth 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 doesnot specifically remove spaces.
Thus, the correct answer isLTRIM(), which removes onlyleading spaces.

NEW QUESTION # 34

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

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

Answer: D

Explanation:
In SQL,literalsrepresent explicit values such asnumbers, strings, or binary datadirectly written into queries.
For example:
SELECT * FROM Employees WHERE Salary > 50000;
Here, 50000 is anumeric literal.
* Option A (Correct):Literalsare explicit values used in SQL queries, such as 123, 'John Doe', and TRUE.
* Option B (Incorrect):Commentsare non-executable text used for documentation within SQL code, typically denoted by -- or /* ... */.
* Option C (Incorrect):Identifiersare names oftables, columns, or other database objects, such as EmployeeID.
* Option D (Incorrect):Keywordsare reserved words in SQL (e.g., SELECT, FROM, WHERE) that define operations and syntax.

NEW QUESTION # 35

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