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CompTIA DA0-002 Exam Syllabus Topics:

Topic	Details
Topic 1	• Visualization: This section of the exam measures skills of a Data Visualisation Specialist and focuses on turning raw data into clear, visual insights. It teaches how to match visual formats like bar charts, heat maps, and line graphs to specific audiences and needs. Candidates must understand how to create dashboards and reports using proper design elements such as labels, layout, branding, and colour schemes. This section also includes best practices for dashboard development and delivery through various platforms and user access levels.
Topic 2	• Data Mining: This section of the exam measures skills of a Business Intelligence Analyst and covers how data is collected, cleaned, and prepared for analysis. It explains methods like ETL and ELT for data integration, as well as web scraping, API use, and survey data collection. Candidates are expected to identify issues like missing or duplicated data and apply techniques like filtering, sorting, merging, and normalizing. The section also touches on query optimization strategies to improve data handling efficiency.
Topic 3	• Data Analysis: This section of the exam measures skills of a Reporting Analyst and includes foundational knowledge of statistical methods such as averages, variances, and standard deviation. It covers how to use data to find patterns, track performance, and make predictions. This domain also introduces hypothesis testing, regression, correlation, and different types of analysis like exploratory and trend analysis. Candidates should also be aware of common tools used for analysis, including Excel, SQL, Python, R, and popular BI platforms like Tableau and Power BI.

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CompTIA Data+ Exam (2025) Sample Questions (Q65-Q70):

NEW QUESTION # 65

A company wants to limit an employee's access to a production environment. Which of the following access control practices is the best to implement?

- A. Mandatory
- **B. Role-based**
- C. Time-based
- D. Attribute-based

Answer: B

Explanation:

This question falls under the Data Governance domain, focusing on access control practices for data security. The task is to limit an employee's access to a production environment, requiring a structured approach.

* Mandatory (Option A): Mandatory access control (MAC) uses strict, system-enforced rules (e.g., military settings), but it's overly rigid for most companies.

* Time-based (Option B): Time-based access limits access to specific times, which doesn't address general production environment access.

* Attribute-based (Option C): Attribute-based access control (ABAC) uses attributes (e.g., department, location), but it's complex and not the simplest solution.

* Role-based (Option D): Role-based access control (RBAC) assigns permissions based on the employee's role, ensuring they only access what's needed for their job, making it the best practice for limiting production access.

The DA0-002 Data Governance domain includes "data privacy concepts," and role-based access control is a widely adopted practice for limiting access in production environments.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 5.0 Data Governance.

NEW QUESTION # 66

Given the following tables:

Individual table

ID

FirstName

LastName

1

John

Doe

Output

ID

FullName

1

JohnDoe

Which of the following is the best option to display output from FirstName and LastName as FullName?

- **A. Concatenate**
- B. Filter
- C. Group
- D. Join

Answer: A

Explanation:

This question falls under the Data Acquisition and Preparation domain of CompTIA Data+ DA0-002, focusing on data manipulation techniques. The task is to combine FirstName and LastName into a single FullName field (e.g., "JohnDoe").

* Concatenate (Option A): Concatenation combines two or more strings into one (e.g., using CONCAT in SQL or "+" in Python), which is the correct method to create FullName from FirstName and LastName.

* Filter (Option B): Filtering selects specific rows based on conditions, not suitable for combining fields.

* Join (Option C): Joining combines data from multiple tables, but the task involves manipulating data within a single table.

* Group (Option D): Grouping (e.g., GROUP BY in SQL) is for aggregation, not for combining fields into a new column.

The DA0-002 Data Acquisition and Preparation domain includes "executing data manipulation," and concatenation is the standard technique for combining fields like FirstName and LastName into FullName.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 2.0 Data Acquisition and Preparation.

NEW QUESTION # 67

A data analyst needs to remove all duplicate values between two tables, "Employees" and "Managers," using SQL SELECT statements. Which of the following should the analyst use for this task?

- A. SELECT * FROM Employees UNION SELECT * FROM Managers
- B. SELECT * FROM Employees JOIN SELECT * FROM Managers
- C. SELECT * FROM Employees CROSS JOIN SELECT * FROM Managers
- D. SELECT * FROM Employees UNION ALL SELECT * FROM Managers

Answer: A

Explanation:

This question pertains to the Data Acquisition and Preparation domain, focusing on combining and deduplicating data using SQL. The task is to remove duplicates between two tables, meaning the analyst needs a unique set of records from both.

* SELECT * FROM Employees UNION ALL SELECT * FROM Managers (Option A): UNION ALL combines all rows from both tables, including duplicates, which doesn't meet the requirement.

* SELECT * FROM Employees UNION SELECT * FROM Managers (Option B): UNION combines rows from both tables and automatically removes duplicates, providing a unique set of records, which fits the task.

* SELECT * FROM Employees JOIN SELECT * FROM Managers (Option C): This syntax is incorrect; a JOIN requires an ON clause, and it wouldn't remove duplicates.

* SELECT * FROM Employees CROSS JOIN SELECT * FROM Managers (Option D): A CROSS JOIN creates a Cartesian product, resulting in all possible combinations, not removing duplicates.

The DA0-002 Data Acquisition and Preparation domain includes "executing data manipulation," and UNION is the correct SQL operation for combining tables while removing duplicates.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 2.0 Data Acquisition and Preparation.

NEW QUESTION # 68

A data analyst team needs to segment customers based on customer spending behavior. Given one million rows of data like the information in the following sales order table:

Customer_ID	Region	Amount_spent	Product_category	Quantity_of_items
00123	East	20000	Baby	4
00124	West	30000	Home	6
00125	South	40000		

Garden
7
00126
North
50000
Furniture
8
00127
East
60000
Baby
10

Which of the following techniques should the team use for this task?

- **A. Binning**
- B. Concatenate
- C. Appending
- D. Standardization

Answer: A

Explanation:

This question falls under the Data Analysis domain, focusing on techniques for segmenting data. The task is to segment customers based on spending behavior, which involves grouping numerical data (Amount_spent) into categories.

* Standardization (Option A): Standardization scales numerical data to a common range (e.g., z-scores), but it doesn't segment customers into groups.

* Concatenate (Option B): Concatenation combines text fields, not numerical data for segmentation.

* Binning (Option C): Binning involves grouping numerical data into discrete intervals (e.g., low, medium, high spending), which is ideal for segmenting customers based on spending behavior.

* Appending (Option D): Appending combines datasets vertically, not relevant for segmentation.

The DA0-002 Data Analysis domain includes "applying the appropriate descriptive statistical methods," and binning is a common method for segmenting numerical data like spending amounts.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 3.0 Data Analysis.

NEW QUESTION # 69

A data company needs a visualization that shows the availability zones from the last ten years and any future availability zones that the company will be using in the next five years. Which of the following is the most appropriate visualization to display this information?

- **A. Map**
- B. Bar chart
- C. Pie chart
- D. Mosaic plot

Answer: A

Explanation:

This question falls under the Visualization and Reporting domain of CompTIA Data+ DA0-002, focusing on selecting the appropriate visualization for a specific dataset. The task is to show availability zones over a

15-year period (past and future), which involves a geographical element since availability zones are typically location-based.

* Bar chart (Option A): Bar charts are good for comparing categorical data but don't effectively show geographical locations or time-based trends across zones.

* Mosaic plot (Option B): Mosaic plots display relationships between categorical variables, not suitable for geographical or time-series data.

* Map (Option C): A map can display availability zones geographically, with annotations or layers to show changes over time (past 10 years and future 5 years), making it the most appropriate visualization.

* Pie chart (Option D): Pie charts show proportions of a whole, not suitable for geographical or time-based data.

The DA0-002 Visualization and Reporting domain emphasizes "translating business requirements to form the appropriate visualization," and a map is the best choice for displaying geographical availability zones over time.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 4.0 Visualization and Reporting.

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