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If you are a busy individual, you will have a short time to sit and study properly for the DA0-001 exam. Finding the best route to quick learning is important because you are not a genius who can cover everything before the final attempt. You have to memorize real CompTIA Data+ Certification Exam (DA0-001) questions that will appear in the final DA0-001 test. In this way, you can quickly prepare for the DA0-001 examination.

CompTIA DA0-001 Exam Syllabus Topics:

Topic	Details
Data Concepts and Environments - 15%	

Identify basic concepts of data schemas and dimensions.	- Databases • Relational • Non-relational - Data mart/data warehousing/data lake • Online transactional processing (OLTP) • Online analytical processing (OLAP) - Schema concepts • Snowflake • Star - Slowly changing dimensions • Keep current information • Keep historical and current information
Compare and contrast different data types.	- Date - Numeric - Alphanumeric - Currency - Text - Discrete vs. continuous - Categorical/dimension - Images - Audio - Video
Compare and contrast common data structures and file formats.	- Structures • Structured - Defined rows/columns - Key value pairs • Unstructured - Undefined fields - Machine data - Data file formats • Text/Flat file - Tab delimited - Comma delimited • JavaScript Object Notation (JSON) • Extensible Markup Language (XML) • Hypertext Markup Language (HTML)
Data Mining - 25%	

Explain data acquisition concepts.	- Integration • Extract, transform, load (ETL) • Extract, load, transform (ELT) • Delta load • Application programming interfaces (APIs) - Data collection methods • Web scraping • Public databases • Application programming interface (API)/web services • Survey • Sampling • Observation
Identify common reasons for cleansing and profiling datasets.	- Duplicate data - Redundant data - Missing values - Invalid data - Non-parametric data - Data outliers - Specification mismatch - Data type validation
Given a scenario, execute data manipulation techniques.	- Recoding data • Numeric • Categorical - Derived variables - Data merge - Data blending - Concatenation - Data append - Imputation - Reduction/aggregation - Transpose - Normalize data - Parsing/string manipulation
Explain common techniques for data manipulation and query optimization.	- Data manipulation • Filtering • Sorting • Date functions • Logical functions • Aggregate functions • System functions - Query optimization • Parametrization • Indexing • Temporary table in the query set • Subset of records • Execution plan
Data Analysis - 23%	

Given a scenario, apply the appropriate descriptive statistical methods.	- Measures of central tendency - Mean - Median - Mode - Measures of dispersion • Range - Max - Min • Distribution • Variance • Standard deviation - Frequencies/percentages - Percent change - Percent difference - Confidence intervals
Explain the purpose of inferential statistical methods.	- t-tests - Z-score - p-values - Chi-squared - Hypothesis testing • Type I error • Type II error - Simple linear regression - Correlation
Summarize types of analysis and key analysis techniques.	- Process to determine type of analysis • Review/refine business questions • Determine data needs and sources to perform analysis • Scoping/gap analysis - Type of analysis • Trend analysis - Comparison of data over time • Performance analysis - Tracking measurements against defined goals - Basic projections to achieve goals • Exploratory data analysis - Use of descriptive statistics to determine observations • Link analysis - Connection of data points or pathway

Identify common data analytics tools.	- Structured Query Language (SQL) - Python - Microsoft Excel - R - Rapid mining - IBM Cognos - IBM SPSS Modeler - IBM SPSS - SAS - Tableau - Power BI - Qlik - MicroStrategy - BusinessObjects - Apex - Dataroma - Domo - AWS QuickSight - Stata - Minitab
Visualization - 23%	
Given a scenario, translate business requirements to form a report.	- Data content - Filtering - Views - Date range - Frequency - Audience for report • Distribution list

Given a scenario, use appropriate design components for reports and dashboards.

- Report cover page

- Instructions
- Summary
 - Observations and insights

- Design elements

- Color schemes
- Layout
- Font size and style
- Key chart elements
 - Titles
 - Labels
 - Legends
- Corporate reporting standards/style guide
 - Branding
 - Color codes
 - Logos/trademarks
 - Watermark

- Documentation elements

- Version number
- Reference data sources
- Reference dates
 - Report run date
 - Data refresh date
 - Frequently asked questions (FAQs)
 - Appendix

Given a scenario, use appropriate methods for dashboard development.	- Dashboard considerations • Data sources and attributes - Field definitions - Dimensions - Measures • Continuous/live data feed vs. static data • Consumer types - C-level executives - Management - External vendors/stakeholders - General public - Technical experts - Development process • Mockup/wireframe - Layout/presentation - Flow/navigation - Data story planning • Approval granted • Develop dashboard • Deploy to production - Delivery considerations • Subscription • Scheduled delivery • Interactive (drill down/roll up) - Saved searches - Filtering - Static - Web interface - Dashboard optimization - Access permissions
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New DA0-001 Test Cost, DA0-001 Study Guide

Far more effective than online courses free or other available exam materials from the other websites, our DA0-001 exam questions are the best choice for your time and money. As the content of our DA0-001 study materials has been prepared by the most professional and specialized experts. I can say that no one can know the DA0-001 learning quiz better than them and they can teach you how to deal with all of the exam questions and answers skillfully.

CompTIA Data+ Certification is a valuable credential for IT professionals who want to demonstrate their expertise in data management. CompTIA Data+ Certification Exam certification validates the candidate's ability to work with different types of data, understand data storage and organization, and apply data analysis and security techniques. It is recognized by employers and organizations worldwide and can help individuals to advance their careers in IT.

CompTIA DA0-001 Exam is intended for IT professionals who work with data on a regular basis, including data analysts, database administrators, and network administrators. It is also suitable for individuals who are interested in pursuing a career in data management or related fields. DA0-001 exam is available in English and Japanese and consists of 80 multiple-choice questions that must be completed within 90 minutes.

CompTIA Data+ Certification Exam Sample Questions (Q238-Q243):

NEW QUESTION # 238

Which of the following variable name formats would be problematic if used in the majority of data software programs?

- A. First_Name_
- B. FirstName
- C. First Name
- D. First_Name

Answer: C

Explanation:

Explanation

This is because First Name is a variable name format that would be problematic if used in most of the data software programs, such as Excel, SQL, or Python. This is because First Name contains a space between two words, which could cause confusion or errors in the data software programs, as they might interpret the space as a separator or a delimiter between two different variables or values, rather than as part of a single variable name. For example, in SQL, a space is used to separate keywords, clauses, or expressions in a statement, such as SELECT, FROM, WHERE, etc. Therefore, using First Name as a variable name in SQL could result in a syntax error or an unexpected result. The other variable name formats would not be problematic if used in most of the data software programs. Here is why:

First_Name_ is a variable name format that uses an underscore () to separate two words, which is a common and acceptable practice in most of the data software programs, as it helps to improve the readability and clarity of the variable name. For example, in Python, an underscore is used to follow the PEP 8 style guide for naming variables, which recommends using lowercase letters and underscores for multi-word variable names.

FirstName is a variable name format that uses camel case to separate two words, which is another common and acceptable practice in most of the data software programs, as it helps to reduce the length and complexity of the variable name. For example, in Excel, camel case is used to follow the VBA naming conventions for naming variables, which recommends using mixed case letters for multi-word variable names.

First_Name is a variable name format that also uses an underscore () to separate two words, which is also a common and acceptable practice in most of the data software programs, as it helps to improve the readability and clarity of the variable name. For example, in SQL, an underscore is used to follow the ANSI SQL naming standards for naming variables, which recommends using lowercase letters and underscores for multi-word variable names.

NEW QUESTION # 239

Kelly wants to get feedback on the final draft of a strategic report that has taken her six months to develop.

What can she do to get prevent confusion as see seeks feedback before publishing the report?

Choose the best answer.

- A. Use a watermark to identify the report as a draft.
- B. Distribute the report to the appropriate stakeholders via email.
- C. Publish the report on an internally facing website.
- D. Show the report to her immediate supervisor.

Answer: A

Explanation:

Explanation

The best answer is to use a watermark to identify the report as a draft. A watermark is a faint image or text that appears behind the content of a document, indicating its status or ownership. By using a watermark, Kelly can clearly communicate that the report is not final and still subject to changes or feedback. This can prevent confusion among the readers and avoid any misuse or misinterpretation of the report. The other options are not as effective as using a watermark, as they either do not indicate the status of the report or do not reach the appropriate stakeholders. Distributing the report via email or publishing it on an internally facing website may not make it clear that the report is a draft and may cause confusion or errors. Showing the report to her immediate supervisor may not get enough feedback from other relevant stakeholders who may have different perspectives or insights.

Reference: How to Add a Watermark in Microsoft Word - Lifewire

NEW QUESTION # 240

Which of the following can be used to translate data into another form so it can only be read by a user who has a key or a password?

- A. Data transmission.
- B. Data protection.
- C. Data encryption.

- D. Data masking

Answer: C

Explanation:

A) Data encryption.

Data encryption is a way of translating data from plaintext (unencrypted) to ciphertext (encrypted). Users can access encrypted data with an encryption key and decrypted data with a decryption key.

NEW QUESTION # 241

A data analyst needs to create a master file that includes customer information from the tables below:

Table 1: Online Transactions

Order_ID	Customer_ID	Date	Amount	Quantity
002A	002	03/01/2020	\$800	109
001B	001	02/01/2020	\$400	14
001B	001	02/01/2020	\$400	14
001B	001	02/01/2020	\$400	14
004C	004	06/01/2020	\$700	52
003D	003	05/01/2020	\$900	20

Table 2: In-store Transactions

Order_ID	Customer_ID	Date	Amount	Quantity
006A	006	04/01/2020	\$200	59
007B	007	03/01/2020	\$500	54
008C	008	02/01/2020	\$600	15
009D	009	05/01/2020	\$800	18
001E	001	07/01/2020	\$300	50
003F	003	08/01/2020	\$200	55

Table 3: Customer Table

Customer_ID	Segment	Region
001	New	BC
002	Existing	ON
003	New	MB
004	New	ON
005	Existing	AT
006	Existing	MB
007	New	QC
008	New	QC
009	Existing	BC

Given the three tables above, the analyst wants to filter down the information prior to joining it together. In which of the following orders should this data manipulation be approached for the most efficient result?

- A. Merge, append, deduplicate
- B. Deduplicate, append, merge
- C. Append, deduplicate, merge
- **D. Merge, deduplicate, append**

Answer: D

Explanation:

For efficient data manipulation, the ideal order would be to first merge related tables to create a comprehensive set of records, then deduplicate to remove any redundant information. Lastly, appending additional data, such as from another source or table, ensures that all relevant data is included without redundancy before the final analysis. This order prevents unnecessary duplication of effort, such as deduplicating both before and after appending, which would be less efficient.

In the context of the tables provided, merging would likely involve combining customer information from the online and in-store transaction tables with the customer table. Deduplication would remove any redundant customer records that may exist across these tables. Finally, appending would involve adding any additional transaction records to the master file, ensuring a complete dataset for analysis.

NEW QUESTION # 242

A data analyst was asked to create a chart that shows the relationship between study hours and exam scores for each student using the data sets in the table below:

Student	Exam score	Study hours
Kim	90	7.5
Leo	80	6
Alpha	60	4
Jude	85	7
Ella	95	8

Which of the following charts would BEST represent the relationship between the variables?

- A. A scatter plot
- B. A bar chart
- C. A histogram
- D. A heat map

Answer: A

Explanation:

This is because a scatter plot is a type of chart that shows the relationship between two variables for each observation or unit in a data set, such as study hours and exam scores for each student in this case. A scatter plot can be used to display and analyze the correlation, trend, or pattern among the variables, as well as identify any outliers or clusters in the data. For example, a scatter plot can show if there is a positive, negative, or no correlation between study hours and exam scores, as well as show if there are any students who have unusually high or low exam scores compared to their study hours. The other charts are not the best charts to represent the relationship between the variables. Here is why:

A histogram is a type of chart that shows the frequency or the count of values in a single variable for different intervals or bins, such as exam scores for different ranges in this case. A histogram can be used to display and analyze the distribution, shape, or spread of the variable, as well as identify any gaps, peaks, or skewness in the data. For example, a histogram can show if most students have high, low, or average exam scores, as well as show if there are any intervals that have no students at all.

A heat map is a type of chart that shows the intensity or the magnitude of values in two variables for different categories or groups, such as exam scores and study hours for different student names in this case. A heat map can be used to display and analyze the variation, contrast, or comparison among the categories or groups, as well as identify any hot spots, cold spots, or gradients in the data. For example, a heat map can show which students have higher or lower exam scores and study hours than others, as well as show if there is a color pattern that indicates a relationship between exam scores and study hours.

A bar chart is a type of chart that shows the value or the amount of a single variable for different categories or groups, such as exam scores for different student names in this case. A bar chart can be used to display and analyze the comparison, ranking, or proportion among the categories or groups, as well as identify any differences, similarities, or outliers in the data. For example, a bar chart can show which students have higher or lower exam scores than others, as well as show if there are any students who have exceptionally high or low exam scores.

NEW QUESTION # 243

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