COMPTIA DA0-001

CompTIA Data Plus Certification Questions & Answers

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EDUSUM
#1 Online Certification Guide

Table of Contents:

Discover More about the DA0-001 Certification

Are you interested in passing the CompTIA DA0-001 exam? First discover, who benefits from the DA0-001 certification. The DA0-001 is suitable for a candidate if he wants to learn about Data and Analytics. Passing the DA0-001 exam earns you the CompTIA Data+ title.

While preparing for the DA0-001 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The DA0-001 PDF contains some of the most valuable preparation tips and the details and instant access to useful **DA0-001 study materials just at one click**.

CompTIA DA0-001 Data Plus Certification Details:

Exam Name	CompTIA Data+
Exam Code	DA0-001
Exam Price	$246 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	675 / 900
Books / Training	**CompTIA Data+ Certification Training**
Schedule Exam	**Pearson VUE**
Sample Questions	**CompTIA Data+ Sample Questions**
Practice Exam	**CompTIA DA0-001 Certification Practice Exam**

DA0-001 Syllabus:

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

Topic	Details
	- 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)

Topic	Details
	• 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

Topic	Details
	- 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
<td colspan="2" align="center">**Data Analysis - 23%**</td>
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

Topic	Details
	- 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

Topic	Details
	- 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

Topic	Details

	• 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

Topic	Details
	- 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
Given a scenario, apply the appropriate type of visualization.	- Line chart - Pie chart - Bubble chart - Scatter plot - Bar chart - Histogram - Waterfall - Heat map - Geographic map - Tree map - Stacked chart - Infographic - Word cloud
Compare and contrast types of reports.	- Static vs. dynamic reports • Point-in-time • Real time

Topic	Details

	- Ad-hoc/one-time report
	- Self-service/on demand
	- Recurring reports
	
	  • Compliance reports (e.g., financial, health, and safety)
	  • Risk and regulatory reports
	  • Operational reports [e.g., performance, key performance indicators (KPIs)]
	
	- Tactical/research report

Data Governance, Quality, and Controls - 14%	

Summarize important data governance concepts.	- Access requirements
	
	  • Role-based
	  • User group-based
	  • Data use agreements
	  • Release approvals
	- Security requirements
	
	  • Data encryption
	  • Data transmission
	  • De-identify data/data masking
	- Storage environment requirements
	
	  • Shared drive vs. cloud based vs. local storage
	- Use requirements
	
	  • Acceptable use policy
	  • Data processing
	  • Data deletion
	  • Data retention
	- Entity relationship requirements
	
	  • Record link restrictions

Topic	Details
	• Data constraints • Cardinality - Data classification • Personally identifiable information (PII) • Personal health information (PHI) • Payment card industry (PCI) - Jurisdiction requirements • Impact of industry and governmental regulations - Data breach reporting • Escalate to appropriate authority

Given a scenario, apply data quality control concepts.	- Circumstances to check for quality
	
	• Data acquisition/data source
	• Data transformation/intrahops
	  - Pass through
	  - Conversion
	• Data manipulation
	• Final product (report/dashboard, etc.)
	
	- Automated validation
	
	• Data field to data type validation
	• Number of data points
	
	- Data quality dimensions
	
	• Data consistency
	• Data accuracy
	• Data completeness
	• Data integrity
	• Data attribute limitations
	
	- Data quality rule and metrics
	
	• Conformity

Topic	Details
	• Non-conformity • Rows passed • Rows failed - Methods to validate quality • Cross-validation • Sample/spot check • Reasonable expectations • Data profiling • Data audits
Explain master data management (MDM) concepts.	- Processes • Consolidation of multiple data fields • Standardization of data field names • Data dictionary - Circumstances for MDM • Mergers and acquisitions • Compliance with policies and regulations • Streamline data access

Broaden Your Knowledge with CompTIA DA0-001 Sample Questions:

Question: 1

A hypothesis test sometimes rejects the null hypothesis even if the true value of the population parameter is the same as the value in the null hypothesis.
This type of result is known as:

a) A Type I Error
b) A Type II Error
c) A correct inference
d) The confidence level of the inference

Answer: a

Question: 2

George wants to integrate data from his city's open data portal. Reading the website, he sees that he can download the data he wants as a CSV file. After manually downloading the file, he writes the code to transform the data and load it into his database.

Presuming the data changes once a month, what can George do to ensure he has the most up-to-date data from the city?

Choose the best answer.

a) Manually check the city's website every day.
b) Contact the city and encourage the development of an API.
c) Automate the process that downloads, transforms, and uploads the CSV file.
d) Nothing, George has already successfully loaded the data.

Answer: c

Question: 3

Q3 2020 has just ended, and now a data analyst needs to create an ad-hoc sales report that demonstrates how well the Q3 2020 promotion went versus last year's Q3 promotion.

Which of the following date parameters should the analyst use?

a) 2019 vs. YTD 2020
b) Q3 2019 vs. Q3 2020
c) YTD 2019 vs. YTD 2020
d) Q4 2019 vs. Q3 2020

Answer: b

Question: 4

A data analyst has been asked to create an ad-hoc sales report for the Chief Executive Officer (CEO). Which of the following should be included in the report?

a) The sales representatives' home addresses
b) Line-item SKU numbers
c) YTD total sales
d) The customers' first and last names

Answer: c

Question: 5

Which of the following contains alphanumeric values?

a) 10.1E²
b) 13.6
c) 1347
d) A3J7

Answer: d

Question: 6

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 encryption
b) Data transmission
c) Data protection
d) Data masking

Answer: a

Question: 7

Which of the following is an example of a discrete data type?

a) 8in (20cm)
b) 5 kids
c) 2.5mi (4km)
d) 10.7lbs (4.9kg)

Answer: b

Question: 8

What Python library provides data analysts with access to tools that allow them to better structure data?

a) Numpy
b) TensorFlow
c) pandas
d) Keras

Answer: c

Question: 9

The sales of a grocery store had an average of $8,000 per day. The store introduced several advertising campaigns in order to increase sales.

To determine whether the advertising campaigns have been effective in increasing sales, a sample of 64 days of sales was selected, and the sample mean was $8,300 per day.

The correct null and alternative hypotheses to test whether there has been a significant increase are:

a) Null: Sample mean is 8,000; Alternative: Sample mean is greater than or equal to 8,000.
b) Null: Sample mean is 8,000; Alternative: Sample mean is greater than 8,000.
c) Null: Population mean is 8,000; Alternative: Population mean is greater than or equal to 8,000.
d) Null: Population mean is 8,000; Alternative: Population mean is greater than 8,000.

Answer: d

Question: 10

Melinda is analyzing a movie dataset, where individual films have a star rating between 1 and 5. What type of data is this?

a) Nonparametric data
b) Redundant data
c) Duplicate data
d) Data outlier

Answer: a

Avail the Study Guide to Pass CompTIA DA0-001 Data Plus Exam:

- Find out about the DA0-001 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **DA0-001 syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the DA0-001 training. Joining the CompTIA provided training for DA0-001 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **DA0-001 sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. DA0-001 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

- Passing the DA0-001 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the DA0-001 Certification

EduSum.Com is here with all the necessary details regarding the DA0-001 exam. We provide authentic practice tests for the DA0-001 exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on EduSum.Com for rigorous, unlimited two-month attempts on the **DA0-001 practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the CompTIA Data+.

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