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#1 Online Certification Guide

Excel at DA0-001 Data+ Exam: Proven Study Methods for Triumph

**CompTIA Data+ CERTIFICATION
QUESTIONS & ANSWERS**

**Get Instant Access to Vital Exam
Acing Materials | Study Guide |
Sample Questions | Practice
Test**

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Getting Ready for the DA0-001 Exam:

Use proven study tips and techniques to prepare for the [DA0-001 exam](#) confidently. Boost your readiness, improve your understanding regarding the Data and Analytics, and increase your chances of success in the CompTIA Data+ with our comprehensive guide. Start your journey towards exam excellence today.

CompTIA Data+ Certification Details:

Exam Name	CompTIA Data+
Exam Code	DA0-001
Exam Price	\$253 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	675 / 900
Books / Training	CompTIA Data+ Certification Training CertMaster Learn for Data+
Schedule Exam	Pearson VUE
Sample Questions	CompTIA Data+ Sample Questions
Practice Exam	CompTIA DA0-001 Certification Practice Exam

Explore DA0-001 Syllabus:

Topic	Details
Data Concepts and Environments - 15%	
Identify basic concepts of data schemas and dimensions.	<ul style="list-style-type: none"> - Databases <ul style="list-style-type: none"> • Relational • Non-relational - Data mart/data warehousing/data lake <ul style="list-style-type: none"> • Online transactional processing (OLTP) • Online analytical processing (OLAP) - Schema concepts <ul style="list-style-type: none"> • Snowflake • Star - Slowly changing dimensions <ul style="list-style-type: none"> • Keep current information

Topic	Details
	<ul style="list-style-type: none"> • Keep historical and current information
Compare and contrast different data types.	<ul style="list-style-type: none"> - Date - Numeric - Alphanumeric - Currency - Text - Discrete vs. continuous - Categorical/dimension - Images - Audio - Video
Compare and contrast common data structures and file formats.	<ul style="list-style-type: none"> - Structures <ul style="list-style-type: none"> • Structured <ul style="list-style-type: none"> - Defined rows/columns - Key value pairs • Unstructured <ul style="list-style-type: none"> - Undefined fields - Machine data - Data file formats <ul style="list-style-type: none"> • Text/Flat file <ul style="list-style-type: none"> - Tab delimited - Comma delimited • JavaScript Object Notation (JSON) • Extensible Markup Language (XML) • Hypertext Markup Language (HTML)
Data Mining - 25%	
Explain data acquisition concepts.	<ul style="list-style-type: none"> - Integration <ul style="list-style-type: none"> • Extract, transform, load (ETL) • Extract, load, transform (ELT) • Delta load • Application programming interfaces (APIs) - Data collection methods <ul style="list-style-type: none"> • Web scraping • Public databases • Application programming interface (API)/web services

Topic	Details
	<ul style="list-style-type: none"> • Survey • Sampling • Observation
Identify common reasons for cleansing and profiling datasets.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - Recoding data <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> - Data manipulation <ul style="list-style-type: none"> • Filtering • Sorting • Date functions • Logical functions • Aggregate functions • System functions - Query optimization <ul style="list-style-type: none"> • Parametrization • Indexing • Temporary table in the query set • Subset of records • Execution plan

Topic	Details
Data Analysis - 23%	
<p>Given a scenario, apply the appropriate descriptive statistical methods.</p>	<ul style="list-style-type: none"> - Measures of central tendency <ul style="list-style-type: none"> • Mean • Median • Mode - Measures of dispersion <ul style="list-style-type: none"> • Range • Max • Min • Distribution • Variance • Standard deviation - Frequencies/percentages - Percent change - Percent difference - Confidence intervals
<p>Explain the purpose of inferential statistical methods.</p>	<ul style="list-style-type: none"> - t-tests - Z-score - p-values - Chi-squared - Hypothesis testing <ul style="list-style-type: none"> • Type I error • Type II error - Simple linear regression - Correlation
<p>Summarize types of analysis and key analysis techniques.</p>	<ul style="list-style-type: none"> - Process to determine type of analysis <ul style="list-style-type: none"> • Review/refine business questions • Determine data needs and sources to perform analysis • Scoping/gap analysis - Type of analysis <ul style="list-style-type: none"> • Trend analysis <ul style="list-style-type: none"> - Comparison of data over time • Performance analysis

Topic	Details
	<ul style="list-style-type: none"> - Tracking measurements against defined goals - Basic projections to achieve goals • Exploratory data analysis <ul style="list-style-type: none"> - Use of descriptive statistics to determine observations • Link analysis <ul style="list-style-type: none"> - Connection of data points or pathway
Identify common data analytics tools.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - Data content - Filtering - Views - Date range - Frequency - Audience for report • Distribution list
Given a scenario, use appropriate design components for reports and dashboards.	<ul style="list-style-type: none"> - Report cover page <ul style="list-style-type: none"> • Instructions • Summary <ul style="list-style-type: none"> - Observations and insights - Design elements

Topic	Details
	<ul style="list-style-type: none"> • Color schemes • Layout • Font size and style • Key chart elements <ul style="list-style-type: none"> - Titles - Labels - Legends • Corporate reporting standards/style guide <ul style="list-style-type: none"> - Branding - Color codes - Logos/trademarks - Watermark - Documentation elements <ul style="list-style-type: none"> • Version number • Reference data sources • Reference dates <ul style="list-style-type: none"> - Report run date - Data refresh date - Frequently asked questions (FAQs) - Appendix
<p>Given a scenario, use appropriate methods for dashboard development.</p>	<ul style="list-style-type: none"> - Dashboard considerations <ul style="list-style-type: none"> • Data sources and attributes <ul style="list-style-type: none"> - Field definitions - Dimensions - Measures • Continuous/live data feed vs. static data • Consumer types <ul style="list-style-type: none"> - C-level executives - Management - External vendors/stakeholders - General public - Technical experts - Development process <ul style="list-style-type: none"> • Mockup/wireframe <ul style="list-style-type: none"> - Layout/presentation - Flow/navigation - Data story planning

Topic	Details
	<ul style="list-style-type: none"> • Approval granted • Develop dashboard • Deploy to production <p>- Delivery considerations</p> <ul style="list-style-type: none"> • Subscription • Scheduled delivery • Interactive (drill down/roll up) <ul style="list-style-type: none"> - Saved searches - Filtering - Static - Web interface - Dashboard optimization - Access permissions
<p>Given a scenario, apply the appropriate type of visualization.</p>	<ul style="list-style-type: none"> - Line chart - Pie chart - Bubble chart - Scatter plot - Bar chart - Histogram - Waterfall - Heat map - Geographic map - Tree map - Stacked chart - Infographic - Word cloud
<p>Compare and contrast types of reports.</p>	<ul style="list-style-type: none"> - Static vs. dynamic reports <ul style="list-style-type: none"> • Point-in-time • Real time - Ad-hoc/one-time report - Self-service/on demand - Recurring reports <ul style="list-style-type: none"> • Compliance reports (e.g., financial, health, and safety) • Risk and regulatory reports • Operational reports [e.g., performance, key performance indicators (KPIs)] - Tactical/research report

Topic	Details
Data Governance, Quality, and Controls - 14%	
Summarize important data governance concepts.	<ul style="list-style-type: none"> - Access requirements <ul style="list-style-type: none"> • Role-based • User group-based • Data use agreements • Release approvals - Security requirements <ul style="list-style-type: none"> • Data encryption • Data transmission • De-identify data/data masking - Storage environment requirements <ul style="list-style-type: none"> • Shared drive vs. cloud based vs. local storage - Use requirements <ul style="list-style-type: none"> • Acceptable use policy • Data processing • Data deletion • Data retention - Entity relationship requirements <ul style="list-style-type: none"> • Record link restrictions • Data constraints • Cardinality - Data classification <ul style="list-style-type: none"> • Personally identifiable information (PII) • Personal health information (PHI) • Payment card industry (PCI) - Jurisdiction requirements <ul style="list-style-type: none"> • Impact of industry and governmental regulations - Data breach reporting <ul style="list-style-type: none"> • Escalate to appropriate authority
Given a scenario, apply data quality	- Circumstances to check for quality

Topic	Details
control concepts.	<ul style="list-style-type: none"> • Data acquisition/data source • Data transformation/intrahops <ul style="list-style-type: none"> - Pass through - Conversion • Data manipulation • Final product (report/dashboard, etc.) <p>- Automated validation</p> <ul style="list-style-type: none"> • Data field to data type validation • Number of data points <p>- Data quality dimensions</p> <ul style="list-style-type: none"> • Data consistency • Data accuracy • Data completeness • Data integrity • Data attribute limitations <p>- Data quality rule and metrics</p> <ul style="list-style-type: none"> • Conformity • Non-conformity • Rows passed • Rows failed <p>- Methods to validate quality</p> <ul style="list-style-type: none"> • Cross-validation • Sample/spot check • Reasonable expectations • Data profiling • Data audits
Explain master data management (MDM) concepts.	<p>- Processes</p> <ul style="list-style-type: none"> • Consolidation of multiple data fields • Standardization of data field names • Data dictionary <p>- Circumstances for MDM</p> <ul style="list-style-type: none"> • Mergers and acquisitions

Topic	Details
	<ul style="list-style-type: none">• Compliance with policies and regulations• Streamline data access

Prepare with DA0-001 Sample Questions:

Question: 1

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: 2

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: 3

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: 4

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: 5

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: 6

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: 7

Which of the following contains alphanumeric values?

- a) 10.1E²
- b) 13.6
- c) 1347
- d) A3J7

Answer: d

Question: 8

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: 9

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: 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

Study Tips to Pass the CompTIA Data+ Exam:

Understand the DA0-001 Exam Format:

Before diving into your study routine, it's essential to familiarize yourself with the DA0-001 exam format. Take the time to review the [exam syllabus](#), understand the test structure, and identify the key areas of focus. Prior knowledge of what to expect on exam day will help you tailor your study plan.

Make A Study Schedule for the DA0-001 Exam:

To effectively prepare for the DA0-001 exam, make a study schedule that fits your lifestyle and learning style. Set specific time slots for studying each day and focus on the topics based on their importance and your proficiency level. Consistency is a must, so stick to your schedule and avoid procrastination.

Study from Different Resources:

Make sure to expand beyond one source of study material. Utilize multiple resources such as textbooks, online courses, practice exams, and study guides to understand the DA0-001 exam topics comprehensively. Each resource offers unique insights and explanations that can enhance your learning experience.

Practice Regularly for the DA0-001 Exam:

Practice makes you perfect for the DA0-001 exam preparation as well. Regular practice allows you to reinforce your knowledge of key concepts, enhance your problem-solving skills, and familiarize yourself with the exam format. Dedicate time to solving [practice](#) questions and sample tests to gauge your progress.

Take Breaks and Rest:

While it's essential to study, taking breaks and allowing yourself to rest is equally important. Overloading your brain with information without adequate rest can lead to burnout and decreased productivity. Set short breaks during your study sessions to recharge and maintain focus.

Stay Organized During the DA0-001 Exam Preparation:

Stay organized throughout your DA0-001 study journey by keeping track of your progress and materials. Maintain a tidy study space, use folders or digital

tools to organize your notes and resources, and create a checklist of topics to cover. An organized approach helps you stay on track and minimize stress.

Seek Clarification from Mentors:

Feel free to seek clarification if you encounter any confusing or challenging concepts during your study sessions. Reach out to peers, instructors, or online forums for assistance. Clarifying doubts early on will prevent misunderstandings and ensure you have a solid grasp of the [material](#).

Regular Revision Plays A vital Role for the DA0-001 Exam:

Consistent revision is essential for the long-term retention of information. Review previously covered topics to reinforce your understanding and identify any areas requiring additional attention. Reviewing regularly will help solidify your knowledge and boost your confidence.

Practice Time Management for the DA0-001 Exam:

Effective time management is crucial on exam day to ensure you complete all sections within the allocated time frame. During your practice sessions, simulate DA0-001 exam conditions and practice pacing yourself accordingly. Develop strategies for tackling each section efficiently to maximize your score.

Stay Positive and Confident:

Lastly, always have a positive mindset and believe in your abilities. Stay confident in your preparation efforts and trust that you have adequately equipped yourself to tackle the DA0-001 exam. Visualize success, stay focused, and approach the exam calmly and confidently.

Benefits of Earning the DA0-001 Exam:

- Achieving the DA0-001 certification opens doors to new career opportunities and advancement within your field.
- The rigorous preparation required for the DA0-001 exam equips you with in-depth knowledge and practical skills relevant to your profession.
- Holding the DA0-001 certification demonstrates your expertise and commitment to excellence, earning recognition from peers and employers.
- Certified professionals often grab higher salaries and enjoy greater earning potential than their non-certified counterparts.
- Obtaining the DA0-001 certification validates your proficiency and credibility, instilling confidence in clients, employers, and colleagues.

Discover the Reliable Practice Test for the DA0-001 Certification:

EduSum.com brings you comprehensive information about the DA0-001 exam. We offer genuine practice tests tailored for the DA0-001 certification. What benefits do these practice tests offer? You'll encounter authentic exam-like questions crafted by industry experts, providing an opportunity to enhance your performance in the actual exam. Count on EduSum.com for rigorous, unlimited access to DA0-001 practice tests over two months, enabling you to bolster your confidence steadily. Through dedicated practice, many candidates have succeeded in streamlining their journey towards obtaining the CompTIA Data+.

Concluding Thoughts:

Preparing for the DA0-001 exam requires dedication, strategy, and effective study techniques. These study tips can enhance your preparation, boost your confidence, and improve your chances of passing the exam with flying colors. Remember to stay focused, stay organized, and believe in yourself. Good luck!

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

EduSum.com offers comprehensive details about the DA0-001 exam. Our platform provides authentic practice tests designed for the DA0-001 exam. What benefits do these practice tests offer? By accessing our practice tests, you will encounter questions closely resembling those crafted by industry experts in the exam. This allows you to enhance your performance and readiness for the real exam. Count on EduSum.com to provide rigorous practice opportunities, offering unlimited attempts over two months for the DA0-001 practice tests. Through consistent practice, many candidates have found success and simplified their journey towards attaining the CompTIA Data+.

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