



COMPTIA DA0-001

CompTIA Data Plus Certification Questions & Answers

Exam Summary – Syllabus – Questions

DA0-001

[CompTIA Data+](#)

90 Questions Exam – 675 / 900 Cut Score – Duration of 90 minutes

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Know Your DA0-001 Certification Well:

The DA0-001 is best suitable for candidates who want to gain knowledge in the CompTIA Data and Analytics. Before you start your DA0-001 preparation you may struggle to get all the crucial Data Plus materials like DA0-001 syllabus, sample questions, study guide.

But don't worry the DA0-001 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the DA0-001 syllabus?
- How many questions are there in the DA0-001 exam?
- Which Practice test would help me to pass the DA0-001 exam at the first attempt?

Passing the DA0-001 exam makes you CompTIA Data+. Having the Data Plus certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

CompTIA DA0-001 Data Plus Certification Details:

Exam Name	CompTIA Data+
Exam Code	DA0-001
Exam Price	\$239 (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.	<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 • 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

Topic	Details
	<ul style="list-style-type: none"> • 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)
<p>Data Mining - 25%</p>	
<p>Explain data acquisition concepts.</p>	<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 • Survey • Sampling • Observation
<p>Identify common reasons for cleansing and profiling datasets.</p>	<ul style="list-style-type: none"> - Duplicate data - Redundant data - Missing values - Invalid data - Non-parametric data - Data outliers - Specification mismatch - Data type validation

Topic	Details
<p>Given a scenario, execute data manipulation techniques.</p>	<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
<p>Explain common techniques for data manipulation and query optimization.</p>	<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
<p>Data Analysis - 23%</p>	
<p>Given a scenario, apply the appropriate</p>	<ul style="list-style-type: none"> - Measures of central tendency Mean Median

Topic	Details
descriptive statistical methods.	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
Explain the purpose of inferential statistical methods.	- 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
Summarize types of analysis and key analysis techniques.	- 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 - Comparison of data over time

Topic	Details
	<ul style="list-style-type: none"> • Performance analysis <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

Topic	Details
	<ul style="list-style-type: none"> • Distribution list
<p>Given a scenario, use appropriate design components for reports and dashboards.</p>	<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 <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

Topic	Details
	<ul style="list-style-type: none"> • 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 • Approval granted • Develop dashboard • Deploy to production Delivery considerations <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

Topic	Details
	<ul style="list-style-type: none"> - 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
<p>Data Governance, Quality, and Controls - 14%</p>	
<p>Summarize important data governance concepts.</p>	<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

Topic	Details
	<ul style="list-style-type: none"> • 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
<p>Given a scenario, apply data quality control concepts.</p>	<ul style="list-style-type: none"> - Circumstances to check for quality <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.) - Automated validation <ul style="list-style-type: none"> • Data field to data type validation • Number of data points - Data quality dimensions <ul style="list-style-type: none"> • Data consistency • Data accuracy

Topic	Details
	<ul style="list-style-type: none"> • Data completeness • Data integrity • Data attribute limitations - Data quality rule and metrics <ul style="list-style-type: none"> • Conformity • Non-conformity • Rows passed • Rows failed - Methods to validate quality <ul style="list-style-type: none"> • Cross-validation • Sample/spot check • Reasonable expectations • Data profiling • Data audits
<p>Explain master data management (MDM) concepts.</p>	<ul style="list-style-type: none"> - Processes <ul style="list-style-type: none"> • Consolidation of multiple data fields • Standardization of data field names • Data dictionary - Circumstances for MDM <ul style="list-style-type: none"> • Mergers and acquisitions • Compliance with policies and regulations • Streamline data access

CompTIA DA0-001 Sample Questions:

Question: 1

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: 2

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: 3

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

Question: 4

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: 5

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: 6

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: 7

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: 8

Which of the following contains alphanumeric values?

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

Answer: d

Question: 9

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: 10

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

Study Guide to Crack CompTIA Data Plus DA0-001 Exam:

- Getting details of the DA0-001 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the DA0-001 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the CompTIA provided training for DA0-001 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the DA0-001 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on DA0-001 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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