



## CompTIA DA0-002 Mock Exam

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# Question 1

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Question Type: MultipleChoice

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An analyst is building a reporting deck. The deck must include tracking and visualizing metrics and row-level security. Which of the following actions should the analyst take after meeting all of the requirements?

## Options:

- A- Show a mock-up to the team.
- B- Explain the desired level of reporting detail.
- C- Present an analysis of the data.
- D- Find out the project due date.

## Answer:

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A

## Explanation:

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This question pertains to the Visualization and Reporting domain, focusing on the process of building a reporting deck. After meeting requirements (tracking metrics, visualizing data, and row-level security), the next step involves validation with stakeholders.

Show a mock-up to the team (Option A): Creating a mock-up and presenting it to the team ensures alignment on design and functionality before finalizing, which is a standard next step in report development.

Explain the desired level of reporting detail (Option B): This should have been done earlier during requirements gathering, not after meeting them.

Present an analysis of the data (Option C): Data analysis might inform the deck, but the task focuses on building the deck, not presenting analysis.

Find out the project due date (Option D): The due date should have been established earlier in the project planning phase.

The DA0-002 Visualization and Reporting domain includes 'translating business requirements to form the appropriate visualization,' and showing a mock-up ensures the reporting deck meets stakeholder expectations.

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## Question 2

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Question Type: MultipleChoice

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A data analyst needs to identify outliers from a given dataset. Which of the following visualizations is the best way to identify outliers?

### Options:

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- A- Box plot
- B- Scatter plot
- C- Gantt chart
- D- Waterfall chart



### Answer:

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A

### Explanation:

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This question falls under the Visualization and Reporting domain, focusing on selecting the appropriate visualization to identify outliers in a dataset.

Box plot (Option A): A box plot displays the distribution of data, including the median, quartiles, and outliers (data points beyond the whiskers), making it the best choice for identifying outliers.

Scatter plot (Option B): A scatter plot shows relationships between two variables, and while outliers may be visible, it's not specifically designed for outlier detection.

Gantt chart (Option C): Gantt charts are for project scheduling, not suitable for outlier identification.

Waterfall chart (Option D): Waterfall charts show cumulative changes (e.g., financial contributions), not designed for outlier detection.

The DA0-002 Visualization and Reporting domain emphasizes 'translating business requirements to form the appropriate visualization,' and a box plot is the standard visualization for identifying outliers.

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## Question 3

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Question Type: MultipleChoice

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A data analyst is generating a custom report for a Chief Executive Officer's executive meeting. Later, the analyst learns that other custom reports will be required for future executive meetings. Which option best delivery methods should the analyst use?

### Options:

- A- Ad hoc
- B- Real-time
- C- Recurring
- D- Self-service

### Answer:

C

### Explanation:

This question falls under the Visualization and Reporting domain of DA0-002, which involves selecting appropriate delivery methods for reports. The scenario describes a need for custom reports for future executive meetings, implying a scheduled, repeated delivery.

Ad hoc (Option A): Ad hoc reports are generated on-demand for one-time use, not suitable for ongoing needs.

Real-time (Option B): Real-time delivery provides live data updates, which isn't necessary for scheduled executive meetings.

Recurring (Option C): Recurring delivery involves scheduling reports to be generated and delivered at regular intervals (e.g., weekly or monthly), which fits the need for future executive meetings.

Self-service (Option D): Self-service allows users to generate reports themselves, but the scenario implies the analyst will create the reports.

The DA0-002 Visualization and Reporting domain includes understanding 'the appropriate visualization in the form of a report' with delivery methods , and recurring delivery aligns with scheduled reporting needs.

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## Question 4

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Question Type: MultipleChoice

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Which option best describes the semi-structured data that is gathered when web scraping?

Options:

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- A- JSON
- B- CSV
- C- CSS
- D- HTML



Answer:

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A

Explanation:

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This question pertains to the Data Acquisition and Preparation domain, which in DA0-002 includes understanding data acquisition concepts and the types of data gathered from various sources, such as web scraping. Web scraping involves extracting data from websites, and the data gathered is often semi-structured, meaning it has some organizational structure but isn't fully relational like a database table.

JSON (Option A): JSON (JavaScript Object Notation) is a semi-structured data format commonly used in web applications. Web scraping often retrieves data in JSON format via APIs or embedded scripts, as it's lightweight and structured with key-value pairs, making it ideal for semi-structured data.

CSV (Option B): CSV (Comma-Separated Values) is a structured format typically used for tabular data. It's not commonly the direct output of web scraping, though scraped data might be converted to CSV later.

CSS (Option C): CSS (Cascading Style Sheets) is used for styling web pages and isn't a data format, making it irrelevant for describing scraped data.

HTML (Option D): HTML (HyperText Markup Language) is the structure of web pages and is often the raw format scraped during web scraping. While HTML is semi-structured due to its tag-based hierarchy, it's primarily a markup language, not a data format, and the actual data extracted is often parsed into formats like JSON.

The DA0-002 Data Acquisition and Preparation domain aligns with the DA0-001 focus on 'data acquisition concepts' (web ID: 14), which includes identifying formats like JSON as semi-

structured data commonly acquired through web scraping. JSON is the best fit here due to its prevalence in web data exchange.

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## Question 5

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Question Type: MultipleChoice

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A company's entire server environment is located at the company's headquarters. Which option best describes this type of environment?

### Options:

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- A- Cloud
- B- On-premises
- C- Public
- D- Hybrid

### Answer:

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B

### Explanation:

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This question pertains to the Data Concepts and Environments domain, focusing on types of server environments. The servers are located at the company's headquarters, indicating a specific deployment model.

Cloud (Option A): Cloud environments are hosted off-site by third-party providers, not at headquarters.

On-premises (Option B): On-premises environments are located at the company's physical location (e.g., headquarters), which matches the scenario.

Public (Option C): Public environments are cloud-based and shared across multiple organizations, not located at headquarters.

Hybrid (Option D): Hybrid environments combine on-premises and cloud, but the scenario specifies all servers are at headquarters.

The DA0-002 Data Concepts and Environments domain includes understanding 'data environments,' and on-premises describes a server environment located at the company's site.

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## Question 6

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Question Type: MultipleChoice

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A data analyst is preparing a survey for Paralympic Games athletes. Which option best should the analyst consider when creating this survey?

Options:

- A- Idioms
- B- Color contrast
- C- Refresh speed
- D- Granularity

Answer:

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B

Explanation:

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This question pertains to the Visualization and Reporting domain, focusing on survey design considerations, particularly for accessibility. The survey is for Paralympic athletes, who may have visual impairments, requiring specific design considerations.

Idioms (Option A): Idioms (e.g., colloquial phrases) might confuse non-native speakers, but they're not a primary survey design concern for Paralympic athletes.

Color contrast (Option B): High color contrast ensures readability for athletes with visual impairments (e.g., color blindness), a critical accessibility consideration for Paralympic surveys.

Refresh speed (Option C): Refresh speed is relevant for dashboards, not static surveys.

Granularity (Option D): Granularity refers to data detail levels, not a survey design consideration.

The DA0-002 Visualization and Reporting domain includes 'translating business requirements to form the appropriate visualization,' and color contrast is a key accessibility factor in survey design for diverse audiences.

## Question 7

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Question Type: MultipleChoice

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A data analyst needs to create and deliver a dashboard that displays the company's financial transactions as they are updated. Which of the following delivery methods should the analyst consider? (Choose two).

### Options:

- A- Real-time
- B- Snapshot
- C- Dynamic
- D- Static
- E- Ad hoc
- F- Time series



### Answer:

A, C

### Explanation:

This question is part of the Visualization and Reporting domain, focusing on delivery methods for dashboards. The requirement for displaying financial transactions 'as they are updated' implies a need for real-time updates and interactivity, which narrows down the options.

Real-time (Option A): Real-time delivery ensures the dashboard reflects the latest data as transactions are updated, meeting the requirement.

Snapshot (Option B): A snapshot provides a static view at a specific point, not suitable for ongoing updates.

Dynamic (Option C): A dynamic dashboard allows for interactivity and can be updated as data changes, complementing real-time delivery.

Static (Option D): Static dashboards don't update automatically, making this incorrect.

Ad hoc (Option E): Ad hoc delivery is for one-time reports, not ongoing updates.

Time series (Option F): Time series refers to a data type or visualization, not a delivery method.

The DA0-002 Visualization and Reporting domain includes understanding 'the appropriate visualization in the form of a report or dashboard' with delivery methods Real-time and dynamic methods best support the need for updated financial transaction dashboards.

## Question 8

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Question Type: MultipleChoice

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A report triggers an error that prevents information from being displayed. However, the report was functional before a database upgrade. Which option best should a data analyst do first to troubleshoot the problem?

### Options:

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- A- Ensure the system has permissions for the report service.
- B- Change the report's refresh rate.
- C- Verify the connection to the database.
- D- Check whether the data structures were modified.

### Answer:

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C

### Explanation:

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This question falls under the Data Concepts and Environments domain, which in DA0-002 involves understanding database environments, connections, and troubleshooting issues related to data access. The scenario describes a report failing after a database upgrade, indicating a potential issue with the database environment or connectivity.

Ensure the system has permissions for the report service (Option A): While permissions issues can cause report failures, they are less likely to be the first issue after a database upgrade unless explicitly mentioned.

Change the report's refresh rate (Option B): Refresh rate adjustments might address performance issues but won't resolve a fundamental error preventing data display.

Verify the connection to the database (Option C): A database upgrade often involves changes to connection strings, drivers, or network configurations. Verifying the connection ensures the report can access the database, making this the most logical first step.

Check whether the data structures were modified (Option D): While possible, checking data structures (e.g., schema changes) is a deeper troubleshooting step that should follow after confirming basic connectivity.

The DA0-002 Data Concepts and Environments domain includes understanding database connectivity, similar to DA0-001's focus on 'data schemas and dimensions' and environments

(web ID: 1). Verifying the connection is the first recommended step in troubleshooting post-upgrade issues.

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