

CompTIA.DA0-002.v2026-09-28.q86

|                                                                                                                                                           |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Exam Code:                                                                                                                                                | DA0-002            |
| Exam Name:                                                                                                                                                | CompTIA Data+ Exam |
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NEW QUESTION: 1

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

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

Answer: (SHOW ANSWER)

An on-premises environment means that the organization's servers, hardware, and supporting infrastructure are physically located and managed at the company's own facilities. Since the entire server environment is housed at the company's headquarters, it is an on-premises deployment.

NEW QUESTION: 2

A data analyst is gathering data from multiple tables in a database. The analyst needs certain columns from each table. Which of the following is the best method to accomplish this task?

- A. Aggregate
- B. Union
- C. Nest
- D. Join

Answer: (SHOW ANSWER)

A join combines data from multiple tables based on related fields, allowing the analyst to select specific columns from each table in a single result set.

NEW QUESTION: 3

The sales department wants to include the composition of total sales amounts across all three sales channels in a report. Given the following sample sales table:

| Sales Channel | Month     | Sales (million \$) |
|---------------|-----------|--------------------|
| Digital       | January   | 135                |
| Store         | February  | 145                |
| Online        | March     | 165                |
| Store         | April     | 200                |
| Store         | May       | 125                |
| Online        | June      | 155                |
| Digital       | July      | 120                |
| Online        | August    | 145                |
| Digital       | September | 160                |

Which of the following visualizations is the most appropriate?

- A. KPI card
- B. Pie chart
- C. Pivot table
- D. Box plot

**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 4

A data analyst needs to access data from the last ten years to develop a report. Which of the following should the analyst do to develop the report without affecting the system's performance?

- A. Connect to the production database and create a query that retrieves only the required data
- B. Create a snapshot of the selected period and work on the data analysis in an isolated environment
- C. Restore annual backups of the database in a local computer and query the current year's data in production
- D. Download data from each month as independent flat files and create a local repository for further review

**Answer:** ([SHOW ANSWER](#))

Creating a snapshot of the required historical data and performing the analysis in an isolated environment allows the analyst to work with the necessary ten years of data without placing additional load on the production system. This approach minimizes the impact on system performance while providing a stable dataset for reporting and analysis.

**NEW QUESTION: 5**

A data analyst is creating a report about cars sold within the last twelve months. The current data set only contains information from the last ten months. Which of the following is the most appropriate way to accomplish this task?

- A. Join the records from the last two months of the previous year and append them to the data table.
- B. Parse the records from the last two months of the previous year and append them to the data table.
- C. Merge the records from the last two months of the previous year and append them to the data table.
- D. Extract the records from the last two months of the previous year and append them to the data table.

Answer: (SHOW ANSWER)

Extracting the missing records from the previous year and appending them ensures the dataset includes the full twelve-month period required for accurate reporting.

**NEW QUESTION: 6**

A data analyst is cleaning up a data set that contains images. The analysts wants to keep everything that was produced within the last 12 months. Which of the following best describes where the analyst should check for the date of creation on these products?

- A. The data dictionary of the data set
- B. The metadata of each item in the data set
- C. The data set creation date on the database
- D. The folder creation date on the filesystem

Answer: (SHOW ANSWER)

Metadata contains descriptive information about each file or image, including attributes such as creation date, modification date, file size, and format. To determine which images were produced within the last 12 months, the analyst should examine the metadata of each item rather than the creation date of the dataset or folder containing the files.

**NEW QUESTION: 7**

A data analyst pulls a table similar to the following one:

| ID | Type      | TypeID      | Phone  |
|----|-----------|-------------|--------|
| 1  | Full Time | Full Time 1 | Mobile |
| 2  | Part Time | Part Time 2 | Work   |
| 3  | Full Time | Full Time 3 | Mobile |

Which of the following best explains the data issue with TypeID?

- A. Redundancy
- B. Outlier
- C. Missing data
- D. Duplication

Answer: (SHOW ANSWER)

The TypeID column contains information that is already present in the Type column. Values such as "Full Time 1", "Part Time 2", and "Full Time 3" repeat the employment type while adding an identifier, resulting in unnecessary duplication of information. This is an example of redundancy because the same data is being stored in multiple places.

**NEW QUESTION: 8**

A data analyst calculated the average score per student without making any changes to the following table:

| Student | Subject | Score |
|---------|---------|-------|
| 123     | Math    | 100   |
| 123     | Biology | 80    |
| 234     | Math    | 96    |
| 123     | Biology | 80    |
| 345     | Biology | 88    |
| 234     | Math    | 96    |

Which of the following exploration techniques should the analyst have considered before calculating the average?

- A. Duplication
- B. Redundancy
- C. Binning
- D. Grouping

**Answer: A** ([LEAVE A REPLY](#))

Duplicate records in the dataset would skew the average score calculation, so identifying and handling duplication should be done before performing the analysis.

**NEW QUESTION: 9**

Which of the following best describes the purpose of a primary key?

- A. To provide a helper index that allows the database to find subsets of data easily
- B. To organize data so that the database has an efficient way to find data in a table
- C. To eliminate the need to join tables
- D. To create a unique way to identify each row in a table

**Answer: (SHOW ANSWER)**

A primary key uniquely identifies each row in a table. It ensures that every record can be distinguished from all others and prevents duplicate entries for the key field, maintaining data integrity within the table.

**NEW QUESTION: 10**

A data engineer needs to add a process that will run after an employee table is loaded. The engineer does not know the name of the process that loads employee data. Which of the following is the best document for the engineer to review to find this information?

- A. Data flow diagram
- B. Data dictionary
- C. Data explainability report
- D. Data lineage report

**Answer:** ([SHOW ANSWER](#))

A data lineage report documents the movement and transformation of data throughout systems and processes. It shows where data originates, how it is processed, and the dependencies between processes. Reviewing the data lineage report would help the engineer identify the process responsible for loading the employee table and determine where to add the subsequent process.

**NEW QUESTION: 11**

Which of the following statistical measures is the most suitable and simple measure of the strengthsimple measure of the strength and direction of the linear relationship between price and volume?

- A. Standard deviation
- B. Interception
- C. Correlation
- D. Covariance

**Answer:** ([SHOW ANSWER](#))

Correlation measures both the strength and direction of a linear relationship between two variables, such as price and volume.

**NEW QUESTION: 12**

A data analyst is modeling a new data warehouse to analyze sales. One of the requirements is to analyze sales by region. Which of the following best describes the region table?

- A. Fact
- B. Dimensional
- C. Bridge
- D. Snowflake

**Answer:** ([SHOW ANSWER](#))

A region table provides descriptive attributes used to categorize and analyze facts such as sales, which makes it a dimension table in a data warehouse schema.

**NEW QUESTION: 13**

Which of the following is the best example of a slowly changing dimension for a data warehouse?

- A. A customer table that is overwritten every morning without keeping history
- B. A piece of historical customer data that is removed from the table
- C. A new table created each day with updated customer data
- D. An address from the customer table that is overwritten when changed

**Answer:** D ([LEAVE A REPLY](#))

A slowly changing dimension refers to attributes that change over time, such as a customer's address, where updates occur to reflect the latest value in the dimension table.

**NEW QUESTION: 14**

Which of the following tables holds relational keys and numeric values?

- A. Transactional
- B. Graph
- C. Fact

D. Dimensional

Answer: C ([LEAVE A REPLY](#))

#### NEW QUESTION: 15

A data analyst is querying the Customers table, which contains a name column. Which of the following is the best way to return the customers who have the letters ANT at the beginning of their names?

A.

```
SELECT name  
FROM Customers  
WHERE SUBSTRING(name, 3, 1) = 'ANT'
```

B.

```
SELECT name  
FROM Customers  
WHERE name LIKE '%ANT%'
```

C.

```
SELECT name  
FROM Customers  
WHERE RIGHT(REVERSE(name), 3) = 'ANT'
```

D.

```
SELECT name  
FROM Customers  
WHERE name LIKE 'ANT%'
```

Answer: ([SHOW ANSWER](#))

Using the LIKE operator with 'ANT%' matches all names that start with the specified prefix, ensuring only customers whose names begin with ANT are returned.

#### NEW QUESTION: 16

An analyst needs to produce a final dataset using the following tables:

| Course Enrollments |               |           |
|--------------------|---------------|-----------|
| CourseID           | SectionNumber | StudentID |
| MATH1000           | 1             | 10009     |
| MATH1000           | 2             | 10007     |
| PSYC1500           | 1             | 10009     |
| PSYC1500           | 1             | 10015     |
| Students           |               |           |
| StudentID          | FirstName     | LastName  |
| 10009              | Jane          | Smith     |
| 10007              | John          | Doe       |
| 10015              | Robert        | Roe       |

The expected output should be formatted as follows:

| CourseID | SectionNumber | StudentID | FirstName | LastName |

Which of the following actions is the best way to produce the requested output?

- A. Join
- B. Filter
- C. Group
- D. Aggregate

Answer: (SHOW ANSWER)

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**NEW QUESTION: 17**

Hotspot Question

The director of operations at a power company needs data to help identify where company resources should be allocated in order to monitor activity for outages and restoration of power in the entire state. Specifically, the director wants to see the following:

- County outages
- Status
- Overall trend of outages

INSTRUCTIONS

Select each visualization to fit the appropriate space on the dashboard. Once you have selected all visualizations, use the drop-down menus to select the appropriate dashboard titles and axis labels, if applicable.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

## Dashboard Editor

Select a dashboard title

Geographic Area of Outages

Select the Appropriate Visualization Depicting **County Outages**



Status of Incidents by County

Select the Appropriate Visualization Depicting **Status**

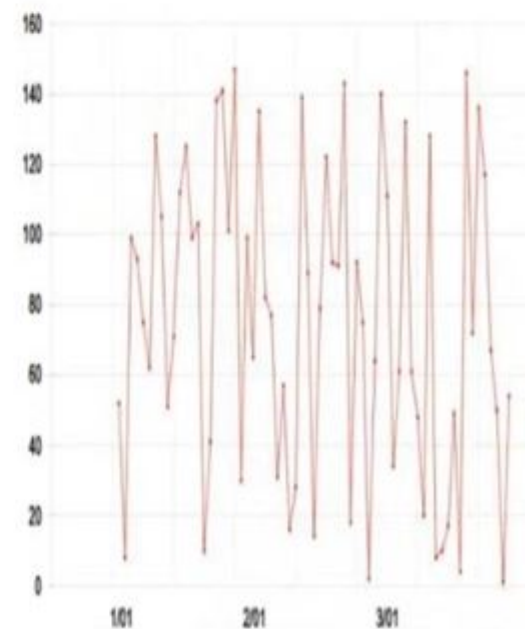
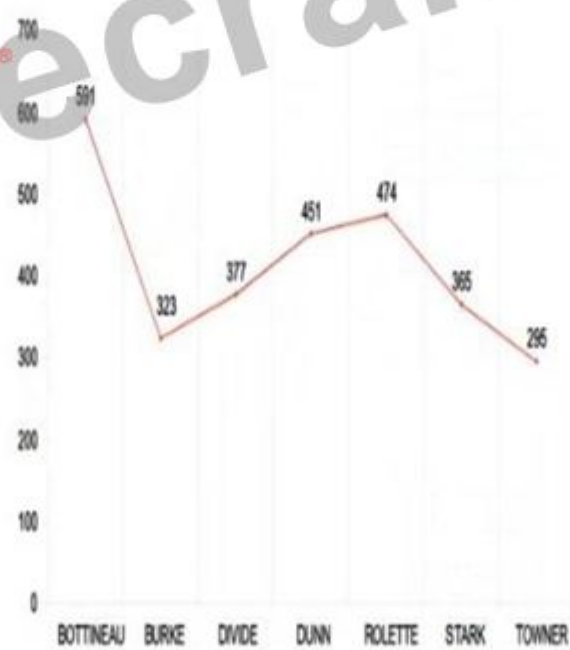
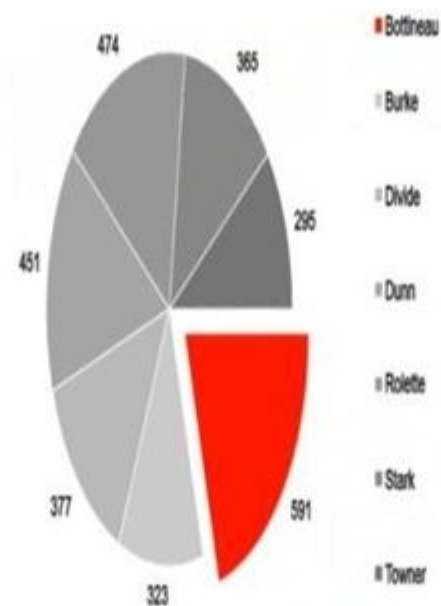
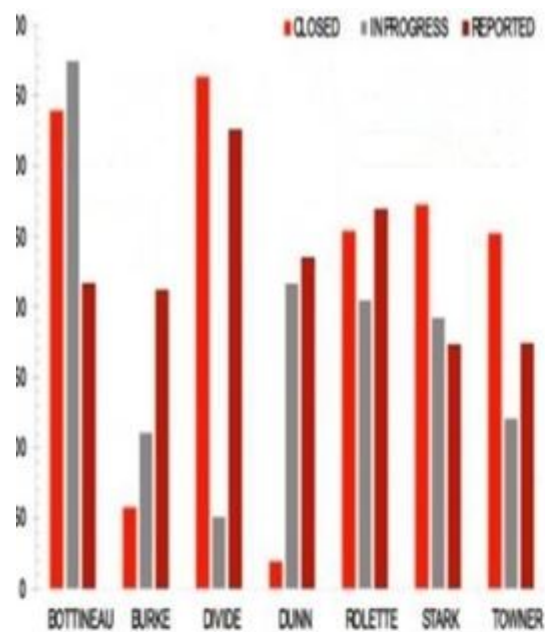


Power Outages in the Quarter

Select the Appropriate Visualization Depicting the **Number of Outages for the Quarter**



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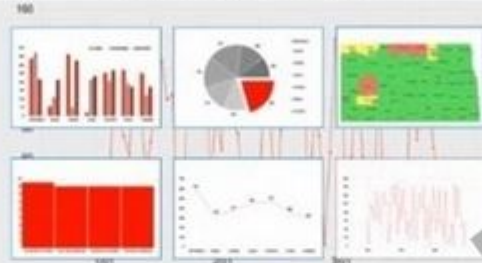
Select a dashboard title

Outages in Sheridan County  
EmPOWER Me! Dashboard  
Power Outages Over Time  
Power Outages Region-wide

## Geographic Area of Outages

Percentage of Outages  
Count of Incidents  
Status of Incidents  
Frequency  
Number of Outages  
Percentage of Incidents  
Rate of Outages

Select a label



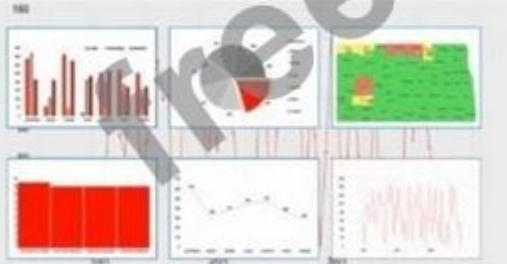
Select a label

Number  
Status  
County  
Year  
Month  
Counts  
Date  
Time

## Status of Incidents by County

Percentage of Outages  
Count of Incidents  
Status of Incidents  
Frequency  
Number of Outages  
Percentage of Incidents  
Rate of Outages

Select a label



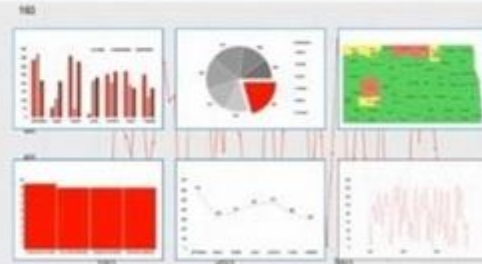
Select a label

Number  
Status  
County  
Year  
Month  
Counts  
Date  
Time

## Power Outages in the Quarter

Percentage of Outages  
Count of Incidents  
Status of Incidents  
Frequency  
Number of Outages  
Percentage of Incidents  
Rate of Outages

Select a label



Select a label

Number  
Status  
County  
Year  
Month  
Counts  
Date  
Time

Answer:

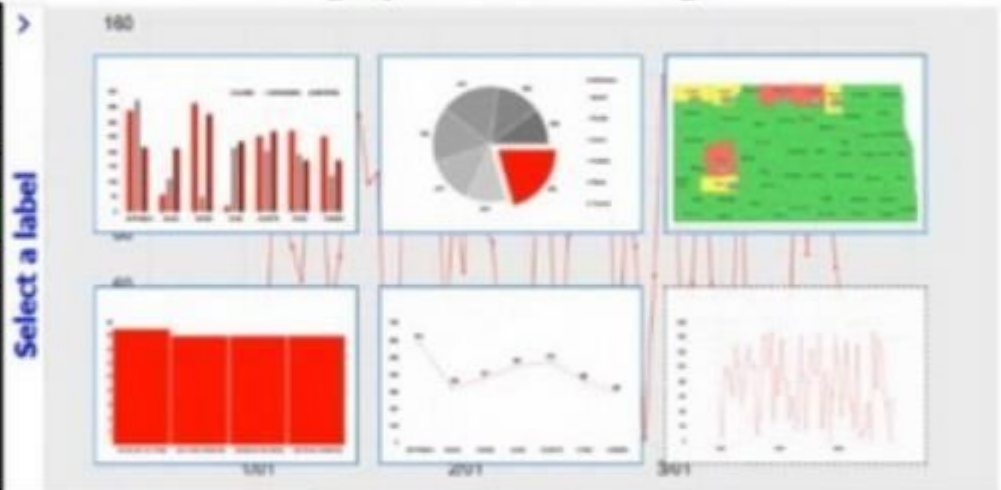
Dashboard Editor

Select a dashboard title

|                            |
|----------------------------|
| Outages in Sheridan County |
| EmPOWER Me! Dashboard      |
| Power Outages Over Time    |
| Power Outages Region-wide  |

Geographic Area of Outages

|                         |
|-------------------------|
| Percentage of Outages   |
| Count of Incidents      |
| Status of Incidents     |
| Frequency               |
| Number of Outages       |
| Percentage of Incidents |
| Rate of Outages         |



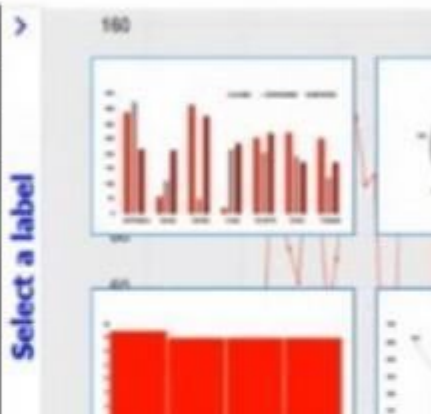
|        |
|--------|
| Number |
| Status |
| County |
| Year   |
| Month  |
| Counts |
| Date   |
| Time   |

Status of Incidents by County

|                         |
|-------------------------|
| Percentage of Outages   |
| Count of Incidents      |
| Status of Incidents     |
| Frequency               |
| Number of Outages       |
| Percentage of Incidents |
| Rate of Outages         |



|                         |
|-------------------------|
| Percentage of Outages   |
| Count of Incidents      |
| Status of Incidents     |
| Frequency               |
| Number of Outages       |
| Percentage of Incidents |
| Rate of Outages         |



| Select a label |
|----------------|
| Number         |
| Status         |
| County         |
| Year           |
| Month          |
| Counts         |
| Date           |
| Time           |

| Select a label |
|----------------|
| Number         |
| Status         |
| County         |
| Year           |
| Month          |
| Counts         |
| Date           |
| Time           |

#### NEW QUESTION: 18

Which of the following is the best way to ensure a procedure performs appropriately during heavy use?

- A. Requirements test
- B. Stress test
- C. Network throughput test
- D. User acceptance test

Answer: (SHOW ANSWER)

A stress test evaluates how a procedure, system, or application performs under heavy workloads or extreme conditions. It helps identify performance limits, bottlenecks, and potential failures, ensuring the procedure continues to operate appropriately during periods of high use.

#### NEW QUESTION: 19

A data analyst created a dashboard to illustrate the traffic volume and mean response time for a call center. The traffic data is current, but the mean response time has not updated for more than an hour. Which of the following is the best way to verify the data's freshness?

- A. Refactoring the code base
- B. Testing for network connectivity issues
- C. Checking the last time the calculation script ran
- D. Determining the number of calls with no timestamps

Answer: C (LEAVE A REPLY)

Checking when the calculation script last ran verifies whether the metric is being refreshed properly, which directly confirms the data's freshness.

#### NEW QUESTION: 20

A financial firm gives an analyst a set of requirements for a sales dashboard. The analyst creates a product using sample data and other components to show the firm how the product will most likely look. Which of the following best explains the analyst's approach?

- A. Designing a mock-up to gather feedback and ensure requirements are understood
- B. Creating an accessibility product to ensure the firm can access the sales dashboard
- C. Developing a sample dashboard to show the level of detail required for the product
- D. Ensuring that all of the colors and graphics align with the firm's requirements

Answer: (SHOW ANSWER)

Creating a mock-up with sample data allows stakeholders to review the proposed design, provide feedback, and confirm that requirements are correctly understood before full development.

**NEW QUESTION: 21**

Which of the following is the best tool for database management?

- A. Anaconda
- B. RStudio
- C. VS Code
- D. Toad

Toad is a database management tool specifically designed for working with databases, including querying, administration, performance tuning, and database development. The other options are primarily development, programming, or data science environments rather than dedicated database management tools.

**NEW QUESTION: 22**

Which of the following data repositories stores unformatted data in its original, raw form?

- A. Data warehouse
- B. Data silo
- C. Data mart
- D. Data lake

Answer: (SHOW ANSWER)

A data lake stores data in its raw, unstructured or semi-structured form without requiring predefined schemas, allowing flexible processing and analysis later.

**NEW QUESTION: 23**

Given the following cloud service provider data:

| Cloud Provider  | Market Size (%) |
|-----------------|-----------------|
| AWS             | 38              |
| Microsoft Azure | 32              |
| Google          | 25              |
| IBM             | 5               |

Which of the following is the best way to represent the information?

- A. Donut chart
- B. Scatter plot
- C. Area chart
- D. Gantt chart

Answer: (SHOW ANSWER)

A donut chart is ideal for displaying parts of a whole when the values represent percentages of a total. The cloud providers' market share percentages add up to 100%, making a donut chart an effective way to show each provider's proportion of the overall market.

**NEW QUESTION: 24**

Which of the following best explains the purpose of data lineage?

- A. To see the steps and path of data flow through different systems
- B. To better understand the granularity of data variable relationships
- C. To track data transformations from acquisition through reporting

**D.** To look up data definitions, ensuring consistent use across business units

**Answer: C** ([LEAVE A REPLY](#))

Data lineage documents the lifecycle of data, showing how it moves and changes as it passes through systems, processes, and transformations--from initial acquisition to final reporting and consumption. It helps organizations understand where data came from, how it was modified, and whether it can be trusted for decision-making.

#### **NEW QUESTION: 25**

Which of the following is the best tool for creating a dynamic dashboard?

**A.** Power BI

**B.** RStudio

**C.** Excel

**D.** SAS

**Answer: (**[SHOW ANSWER](#)**)**

#### **NEW QUESTION: 26**

A data analyst is creating a pivot table for a large data set for an upcoming board meeting. Which of the following is the purpose of the pivot table?

**A.** To visualize the data in a dashboard

**B.** To retrieve and clean data from several sources

**C.** To summarize and analyze the data

**D.** To organize the data for reporting

**Answer: (**[SHOW ANSWER](#)**)**

A pivot table is used to aggregate, summarize, and analyze large data sets, enabling quick insights such as totals, averages, and groupings.

#### **NEW QUESTION: 27**

A company has a document that includes the names of key metrics and the standard for how those metrics are calculated company-wide. Which of the following describes this documentation?

**A.** Data flow diagram

**B.** Data explainability report

**C.** Data dictionary

**D.** Data lineage

**Answer: (**[SHOW ANSWER](#)**)**

#### **NEW QUESTION: 28**

Which of the following data repositories stores unstructured and structured data?

**A.** Data store

**B.** Data silo

**C.** Data mart

**D.** Data lake

**Answer: (**[SHOW ANSWER](#)**)**

A data lake is designed to store both structured and unstructured data in its native format, providing flexibility for various types of data processing and analysis.

**NEW QUESTION: 29**

Which of the following programming languages are the most efficient at performing data mining and statistical analysis? (Choose two.)

- A. Java
- B. R
- C. Python
- D. Ruby
- E. Julia
- F. C++

**Answer:** ([SHOW ANSWER](#))

R is specifically designed for statistical analysis and data mining, offering extensive statistical libraries. Python provides powerful data processing and machine learning libraries, making it highly efficient for data mining and analysis tasks.

**NEW QUESTION: 30**

Which of the following allows a data analyst to send out a spreadsheet containing sensitive information without revealing personal details?

- A. Encrypting the spreadsheet
- B. Redacting all PII
- C. Adding access controls to the ID column
- D. Using a UUID in the data file

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 31**

A company experiences a data breach that exposes some customers' information. A data analyst must categorize the customer data into fully affected, partially affected, and not affected. Which of the following is the best technique to use to quantify the extent of the breach?

- A. Standardizing
- B. Appending
- C. Binning
- D. Parsing

**Answer:** ([SHOW ANSWER](#))

Binning groups data into predefined categories or ranges. Classifying customers as fully affected, partially affected, and not affected is a form of binning that enables the analyst to quantify and measure the extent of the breach by placing records into meaningful categories.

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**NEW QUESTION: 32**

Software end users are happy with the quality of product support provided. However, they frequently raise concerns about the long wait time for resolutions. An IT manager wants to improve the current support process. Which of the following should the manager use for this review?

- A. Infographic
- B. UAT
- C. Survey
- D. KPI

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 33

A data analyst wants to understand several data sets at the variable level. Which of the following should the analyst consult to find this information?

- A. Data lineage
- B. Data dictionary
- C. Data flow diagram
- D. Data versioning

Answer: ([SHOW ANSWER](#))

A data dictionary provides detailed information about variables, including definitions, data types, and attributes, which is necessary for understanding data at the variable level.

#### NEW QUESTION: 34

A senior manager needs a report that can be generated and accessed at any time. Which of the following delivery methods should a data analyst use?

- A. Static
- B. Ad hoc
- C. Self-service
- D. Dynamic

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 35

Which of the following best describes the function of a data flow diagram?

- A. To show how data has changed over time
- B. To show how data is acquired, processed, and output
- C. To show how data is audited for integrity and consistency
- D. To show how data is managed among business units

Answer: ([SHOW ANSWER](#))

A data flow diagram illustrates how data moves through a system, including how it is collected, processed, stored, and output.

#### NEW QUESTION: 36

A manager needs a report to be sent by email every Monday for the next six months. Which of the following is the best way to accomplish this task?

- A. Developing a recurring process
- B. Creating a data snapshot
- C. Waiting for the request each week
- D. Building self-service access

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 37**

Given the following data set:

| Name   | Test Score |
|--------|------------|
| John   | 35         |
| Joe    | 76         |
| Jane   | 91         |
| Robert | 45         |
| Roe    | 72         |
| Ann    | 83         |

Which of the following is the median?

- A. 59
- B. 67
- C. 70
- D. 74

**Answer:** ([SHOW ANSWER](#))

The test scores are 35, 76, 91, 45, 72, and 83. When sorted, they become 35, 45, 72, 76, 83, 91.

Since there are six values, the median is the average of the two middle values:  $(72 + 76) \div 2 = 74$ .

**NEW QUESTION: 38**

Before distributing a report, a marketing analyst notices that the total distinct promotional email messages is less than the combined total of emails sent.

Which of the following is the most likely reason for this difference?

- A. The report failed to run properly.
- B. The aggregation did not include all emails.
- C. Some emails were not delivered.
- D. A recipient received duplicate emails.

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 39**

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? (Select two).

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

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 40**

Given the following data set:

|    |
|----|
| 41 |
| 7  |
| 16 |
| 25 |
| 94 |
| 35 |
| 41 |

Which of the following is the mode?

- A. 35
- B. 37
- C. 41
- D. 43

**Answer: C** ([LEAVE A REPLY](#))

The mode is the value that appears most frequently in the data set, and 41 occurs twice while all other values occur only once.

**NEW QUESTION: 41**

A data analyst's code is failing when the analyst attempts a large batch upload to a cloud database. The analyst checks the following:

- The database key is correct and embedded in the code.
- All classes and objects have been defined and called.
- The coding format in a text editor ensures syntax uniformity.
- Built-in and user-defined exceptions are responding appropriately.
- Print statements correctly identify the line where an error occurs.
- Online coding forums do not contain similar issues with resolutions.

Which of the following is the most appropriate next step to continue troubleshooting?

- A. Developing a new code for this process
- B. Asking a senior engineer for peer review of the code
- C. Scheduling a team meeting and getting help from the entire group
- D. Converting the code to a different language

**Answer: (**[SHOW ANSWER](#)**)**

A peer review by a senior engineer provides expert insight and can identify issues that were not caught during individual troubleshooting, making it the most effective next step.

**NEW QUESTION: 42**

A data analyst needs to summarize the number of customers who contacted the business in the last year by contact type. The Contact\_Type table is in a file and has one million rows. Based on the following sample:

Contact\_Type

| CustomerID | Contact_Type | Purpose      |
|------------|--------------|--------------|
| 001        | Email        | Billing      |
| 002        | DM           | Installation |
| 003        | Branch       | Repairs      |
| 004        | Call         |              |

Which of the following is the most efficient for the analyst to use?

- A. Math function
- B. Query
- C. Filter
- D. Pivot table

**Answer:** ([SHOW ANSWER](#))

A pivot table is the most efficient tool for summarizing and aggregating large datasets. With one million rows, the analyst can quickly group records by Contact\_Type and calculate the count of customers for each contact method (Email, DM, Branch, Call) without creating complex formulas or queries. This provides the required summary directly and efficiently.

#### NEW QUESTION: 43

A data analyst is helping a company achieve its strategic goals. Which of the following types of analytics should the analyst incorporate into the dashboards and tools delivered to the company?

- A. Prescriptive
- B. Predictive
- C. Diagnostic
- D. Descriptive

**Answer:** ([SHOW ANSWER](#))

Prescriptive analytics provides recommended actions based on data insights, directly supporting decision-making and helping organizations achieve their strategic goals.

#### NEW QUESTION: 44

A data analyst must create a report to analyze the flow of services from call receipt to service completion using established time points. Which of the following techniques should the analyst use to create the needed variables?

- A. Binning
- B. Calculating
- C. Scaling
- D. Parsing

**Answer:** ([SHOW ANSWER](#))

Calculating is used to create new variables from existing data through mathematical operations.

To analyze the flow of services between call receipt and service completion using established time points, the analyst would calculate variables such as elapsed time, service duration, or response time from the existing timestamps.

**NEW QUESTION: 45**

Which of the following allows the transfer of isolated applications to multiple environments?

- A. Virtualization
- B. Version control
- C. Continuous integration
- D. Containerization

**Answer: (SHOW ANSWER)**

Containerization packages an application with all its dependencies into a portable container, allowing it to run consistently across multiple environments without conflicts.

**NEW QUESTION: 46**

A data analyst is creating a dashboard for a group of visually impaired stakeholders. Which of the following communication approaches is best?

- A. Inform the supervisor that the stakeholders need assistance during the meeting.
- B. Partner with the human resources department to advocate on behalf of the stakeholders.
- C. Incorporate audio accessibility functions into graphics for all instances of the interface.
- D. Present a custom slide presentation with interactive sound effects.

**Answer: (SHOW ANSWER)**

Incorporating audio accessibility functions ensures that visually impaired users can interpret and interact with dashboard content independently, aligning with accessibility best practices.

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**NEW QUESTION: 47**

A data analyst is building a new report using data from a sales column. Upon review, the analyst finds that the sales date is stored as a character type. Which of the following function types should the analyst use to filter by a specific month?

- A. Mathematical
- B. String
- C. Logical
- D. Table

**Answer: (SHOW ANSWER)**

Since the sales date is stored as a character (text) data type, the analyst must use string functions to extract or identify the month portion of the date value before filtering. String functions are designed to manipulate and analyze text data stored in character fields.

**NEW QUESTION: 48**

Which of the following file types separates data using a delimiter?

- A. XML

- B. HTML
- C. JSON
- D. CSV

Answer: D (LEAVE A REPLY)

A CSV file stores data in plain text format where values are separated by a delimiter, typically a comma, making it a standard delimited file type.

NEW QUESTION: 49

A data analyst team needs to segment customers based on customer spending behavior. Given one million rows of data like the information in the following sales order table:

| Customer_ID | Region | Amount Spent | Product Category | Quantity of Items |
|-------------|--------|--------------|------------------|-------------------|
| 00123       | East   | 20,000       | Baby             | 4                 |
| 00124       | West   | 30,000       | Home             | 6                 |
| 00125       | South  | 40,000       | Garden           | 7                 |
| 00126       | North  | 50,000       | Furniture        | 8                 |
| 00127       | East   | 60,000       | Baby             | 10                |

Which of the following techniques should the team use for this task?

- A. Standardization
- B. Concatenate
- C. Binning
- D. Appending

Answer: (SHOW ANSWER)

Binning groups continuous numerical values such as customer spending into defined ranges, enabling segmentation of customers based on spending behavior.

NEW QUESTION: 50

Which of the following data repositories stores unformatted data in its original, raw form?

- A. Data warehouse
- B. Data lake
- C. Data silo
- D. Data mart

Answer: B (LEAVE A REPLY)

NEW QUESTION: 51

A complex report is being created from a database. Within the database the storage location of the orders, packaging, and logistics details is unclear. The table's attributes names are abbreviated and not easily identifiable. Which of the following types of documentation would be most useful for reference lookup?

- A. Data flow diagrams

- B. Database specifications
- C. Entity-relationship diagrams
- D. Data dictionary

**Answer:** ([SHOW ANSWER](#))

A data dictionary provides detailed descriptions of database tables, attributes, and their meanings, helping clarify unclear or abbreviated field names.

#### NEW QUESTION: 52

A data analyst needs to derive a new field that flags sales within the month of January from the following sales table:

| OrderID | Month    | Amount |
|---------|----------|--------|
| 0001    | January  | 235000 |
| 0009    | February | 244000 |
| 0007    | March    | 222000 |
| 0002    | January  | 235000 |

Which of the following types of functions should the analyst use to achieve the desired results?

- A. Logical
- B. Date
- C. Aggregate
- D. String

**Answer:** ([SHOW ANSWER](#))

Logical functions evaluate conditions such as whether the month equals January and can be used to create a flag indicating records that meet this criterion.

#### NEW QUESTION: 53

A database administrator needs to implement security triggers for an organization's user information database. Which of the following data classifications is the administrator most likely using? (Select two).

- A. Encrypted
- B. Open
- C. Public
- D. Sensitive
- E. Non-Sensitive
- F. Private

**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 54

Which of the following data repositories stores unaltered data?

- A. Data lake
- B. Data warehouse

- C. Data table
- D. Data factory

Answer: (SHOW ANSWER)

A data lake stores raw, unaltered data in its native format, including structured, semi-structured, and unstructured data. This allows organizations to retain data as originally collected and transform it later when needed for analysis.

NEW QUESTION: 55

A manager requests a report that returns results based on a user's profile. Which of the following best describes this type of report?

- A. Real-time
- B. Static
- C. Dynamic
- D. Snapshot

Answer: (SHOW ANSWER)

A dynamic report adjusts its output based on user-specific attributes or profiles, allowing different users to see customized results.

NEW QUESTION: 56

A data analyst is working on an initial analysis of the dataset in the following table:

| DateTime            | Count |
|---------------------|-------|
| 2024-01-01 12:00:00 | 12    |
| 2024-01-02 00:00:00 | 245   |
| 2024-01-02 12:00:00 | 13    |
| 2024-01-03 00:00:00 | 12    |

Which of the following issues should the analyst flag in the data report?

- A. Completeness
- B. Outlier
- C. Mismatch
- D. Duplication

Answer: (SHOW ANSWER)

The value 245 is significantly higher than the other counts, indicating an outlier that should be flagged for further investigation.

**NEW QUESTION: 57**

A business intelligence analyst is creating an employee retention dashboard that looks at data from the last five years. The analyst is interested in identifying patterns that can be studied further. Which of the following is the best method to apply to the dashboard?

- A. Predictive
- B. Prescriptive
- C. Diagnostic
- D. Descriptive

Answer: (SHOW ANSWER)

Descriptive analytics summarizes historical data to identify trends, patterns, and relationships.

Since the analyst is examining employee retention data from the last five years to discover patterns for further study, descriptive analytics is the most appropriate method.

**NEW QUESTION: 58**

A data analyst needs to use one table's data to refine data selection from a second table. Which of the following is the most efficient way?

- A. Subquery
- B. Aggregate
- C. Union
- D. Join

Answer: (SHOW ANSWER)

A subquery allows the analyst to use the result of one query to filter or refine the data returned from another table, making it efficient for conditional data selection based on another dataset.

**NEW QUESTION: 59**

A data analyst is compiling a report called "Product Category Sales Performance Summary Report" based on the following table:

| Sales Table |                  |            |                  |                 |
|-------------|------------------|------------|------------------|-----------------|
| Customer_ID | Amount_spend(\$) | Order_date | Product category | Number of items |
| 00123       | 100,000          | 2023-02-11 | Baby             | 4               |
| 00124       | 100,000          | 2023-02-03 | Home             | 6               |
| 00125       | 300,000          | 2023-02-21 | Garden           | 7               |
| 00126       | 125,000          | 2023-02-23 | Furniture        | 8               |
| 00127       | 100,000          | 2023-02-14 | Baby             | 10              |
| 00127       | 325,000          | 2023-02-03 | Home             | 6               |
| 00123       | 325,000          | 2023-02-21 | Garden           | 6               |
| 00123       | 400,000          | 2023-02-23 | Furniture        | 8               |
| 00124       | 100,000          | 2023-02-03 | Garden           | 6               |
| 00124       | 100,000          | 2023-02-21 | Furniture        | 6               |
| 00126       | 100,000          | 2023-02-23 | Furniture        | 8               |

Which of the following charts is the most appropriate?

- A. Gantt
- B. Waterfall
- C. Column
- D. Area

Answer: (SHOW ANSWER)

A column chart is the most appropriate choice for a Product Category Sales Performance Summary Report because it effectively compares sales performance across discrete categories such as Baby, Home, Garden, and Furniture. It allows stakeholders to easily identify which product categories generate higher or lower sales and makes category-to-category comparisons clear.

NEW QUESTION: 60

A data analyst deployed a report for public access. A user states that the report is not showing the latest information, even though the user updated the source an hour ago. Which of the following should the data analyst check first?

- A. Event log
- B. User privileges
- C. Database connection
- D. Report corruption

Answer: (SHOW ANSWER)

The first thing to verify is the database connection between the report and the data source. If the connection is not refreshing correctly or is pointing to outdated data, the report will not display recent updates even though the source data has changed.

NEW QUESTION: 61

An analyst needs to combine the following two tables. The analyst needs to keep all the records in the Medals table and only the records that match from the Country table.

| Medals    |        |         |
|-----------|--------|---------|
| Person_ID | Medal  | Sport   |
| 1         | Bronze | Cycling |
| 2         | Gold   | Cricket |
| 3         | Silver | Soccer  |

| Country   |         |
|-----------|---------|
| Person_ID | Country |
| 1         | USA     |
| 2         | CAN     |
| 3         | BRA     |
| 4         | FRA     |
| 5         | SWE     |
| 6         | JPN     |

Which of the following methods should the analyst use for this task?

- A. Join
- B. Insert
- C. Union
- D. Append

Answer: (SHOW ANSWER)

A join is used to combine rows from two tables based on a common field, in this case Person\_ID. Since all records from the Medals table must be retained and only matching records from the Country table included, the appropriate operation is a left join,

which is a type of join.

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**NEW QUESTION: 62**

Which of the following report types is considered the most important in a legal and compliance context?

- A. Regulatory
- B. Investment
- C. Performance
- D. Operational

**Answer: (SHOW ANSWER)**

Regulatory reports are critical in legal and compliance contexts because they ensure adherence to laws, regulations, and standards.

**NEW QUESTION: 63**

Which of the following elements is the most important to include in a dashboard for internal technical audiences?

- A. Key performance indicators
- B. Company branding
- C. Methodology section
- D. Dynamic features

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 64**

The following SQL code returns an error in the program console:

```
SELECT firstName, lastName, SUM(income)
FROM companyRoster
SORT BY lastName, income
```

Which of the following changes allows this SQL code to run?

- A. SELECT firstName, lastName, SUM(income) FROM companyRoster HAVING SUM(income) > 10000000
- B. SELECT firstName, lastName, SUM(income) FROM companyRoster GROUP BY firstName, lastName
- C. SELECT firstName, lastName, SUM(income) FROM companyRoster ORDER BY firstName, income
- D. SELECT firstName, lastName, SUM(income) FROM companyRoster

**Answer: (SHOW ANSWER)**

The error occurs because SORT BY is not valid SQL syntax. To sort query results, SQL uses the ORDER BY clause. Replacing SORT BY with ORDER BY allows the statement to execute correctly and return the results ordered by the specified columns.

**NEW QUESTION: 65**

A data analyst is creating a forecast for a product line introduced early last year. Which of the following should the analyst use to create projected sales and

customer satisfaction for next year?

- A. Standard deviation and constraints
- B. Mean and median
- C. Boolean data and an array
- D. Numerical and ordinal attributes

**Answer:** ([SHOW ANSWER](#))

Numerical attributes are used for quantitative forecasting such as projected sales, while ordinal attributes represent ordered categories like customer satisfaction levels, making them appropriate for forecasting both types of outcomes.

#### **NEW QUESTION: 66**

Which of the following differentiates stress testing from UAT?

- A. Stress testing engages end users in the testing process
- B. Stress testing gathers feedback to share with developers
- C. Stress testing identifies potential failures and optimizes performance
- D. Stress testing detects flaws missed during design and development

**Answer:** ([SHOW ANSWER](#))

Stress testing evaluates how a system performs under extreme or peak conditions to identify potential failures, bottlenecks, and performance limitations. Its purpose is to assess system resilience and optimize performance, whereas UAT focuses on validating that the system meets business and user requirements before deployment.

#### **NEW QUESTION: 67**

Which of the following data structures would a data engineer most likely receive when using a get command?

- A. HTML
- B. XLSM
- C. CSS
- D. JSON

**Answer:** ([SHOW ANSWER](#))

JSON (JavaScript Object Notation) is a common data structure returned by GET requests in APIs and web services. It provides a lightweight, structured format for exchanging data between systems and is widely used for transmitting records, objects, and arrays.

#### **NEW QUESTION: 68**

A data analyst receives the following sales data for a convenience store:

| Item             | Quantity | Unit Price |
|------------------|----------|------------|
| Chocolate Bars   | 7        | 1.99       |
| Vanilla Ice Bars | 2        | 4.99       |
| Chocolate Wafers | 6        | 0.99       |
| Peanut Butter    | 2        | 2.99       |
| Cups             | 3        | 4.99       |
| Strawberry Jam   | 3        | 4.99       |
| Chocolate Cake   | 9        | 6.99       |
| Milk Chocolate   | 2        | 2.99       |
| Almonds          | 5        | 2.99       |

The analyst needs to provide information on the products that contain chocolate.  
Which of the following RegEx should the analyst use to filter the chocolate products?

- A. Chocolate!
- B. %Chocolate&
- C. #Chocolate#
- D. Chocolate\$

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 69

A user needs a report that shows the main causes of customer churn rate in a three-year period.  
Which of the following methods provides this information?

- A. Predictive
- B. Inferential
- C. Descriptive
- D. Prescriptive

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 70

Which of the following data sources makes online data consumption easier?

- A. Data mart
- B. Web scraping

- C. Database
- D. Application programming interface

**Answer:** ([SHOW ANSWER](#))

An application programming interface provides structured and standardized access to data, making it easier to retrieve and consume data from online services programmatically.

#### NEW QUESTION: 71

A data analyst receives a report from a dashboard user stating that their report is taking longer than usual to load. The user needs five components for the dashboard. However, upon investigating, the analyst notices ten components that are attempting to load. Which of the following steps should the analyst take to correct this issue?

- A. Check the refresh rate on the report server.
- B. Check with the network team for stale network connections.
- C. Check with administrators to review the logs of the report server.
- D. Check the filters to include only the required information.

**Answer:** ([SHOW ANSWER](#))

Reducing the number of components being loaded by applying appropriate filters ensures only the required data is retrieved and displayed, improving performance and resolving the delay.

#### NEW QUESTION: 72

Which of the following best describes the method used to combine files, software, and libraries for use on various operating systems and environments?

- A. Package manager
- B. Code repository
- C. Virtual machine
- D. Containerization

**Answer:** ([SHOW ANSWER](#))

Containerization bundles applications with their dependencies, including files, libraries, and runtime components, enabling consistent execution across different operating systems and environments.

#### NEW QUESTION: 73

A data analyst needs to create a report that anticipates the number of calls received daily. Which of the following is the best statistical method to use?

- A. Predictive
- B. Diagnostic
- C. Inferential
- D. Descriptive

**Answer:** ([SHOW ANSWER](#))

Predictive analysis uses historical data and statistical models to forecast future outcomes. Since the goal is to anticipate the number of calls that will be received each day, predictive analysis is the most appropriate method.

#### NEW QUESTION: 74

Which of the following best describes a characteristic of a Boolean?

- A. Must be a character

- B. Must be two values only
- C. Must be numeric
- D. Must be system-created

**Answer:** ([SHOW ANSWER](#))

A Boolean represents a binary condition with only two possible values, typically true or false.

#### NEW QUESTION: 75

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

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

**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 76

While interacting with a data set, a data analyst learns that copies of the data are distributed across several data repositories around the globe. Which of the following concepts best describes this practice?

- A. Redundancy
- B. High availability
- C. Replication
- D. Duplication

**Answer:** ([SHOW ANSWER](#))

Replication involves distributing copies of data across multiple locations or systems to ensure accessibility and consistency across environments.

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#### NEW QUESTION: 77

Which of the following is a flat file data format?

- A. XML
- B. CSV
- C. JSON
- D. HTML

**Answer:** ([SHOW ANSWER](#))

CSV (Comma-Separated Values) is a flat file format storing data in plain text, organized in rows and columns without hierarchical structure.

#### NEW QUESTION: 78

Giving the following values:

47

59

83

33

51

39

52

Which of the following is the mean?

A. 47

B. 51

C. 52

D. 59

Answer: ([SHOW ANSWER](#))

The mean is the average of the values:  $(47 + 59 + 83 + 33 + 51 + 39 + 52) \div 7 = 51.43$ , rounded to 51.

#### NEW QUESTION: 79

A data analyst wants to use the following tables to find all the customers who have not placed an order:

| Customers table |      |             |
|-----------------|------|-------------|
| ID              | Name | Address     |
|                 |      |             |
| Products table  |      |             |
| ID              | Name | Customer_ID |
|                 |      |             |

Which of the following SQL statements is the best way to accomplish this task?

A. `SELECT * FROM CUSTOMERS AS C INNER JOIN PRODUCTS AS P ON C.ID = C.ID WHERE COUNT(P.) =`

B. `A SELECT * FROM CUSTOMERS AS C LEFT JOIN PRODUCTS AS P ON C.ID = P.Customer_ID WHERE P.Customer_ID IS NULL`

C. `SELECT * FROM PRODUCTS AS P INNER JOIN CUSTOMERS AS C ON P.Customer_ID =C.ID WHERE (SELECT COUNT(P.) = 0)`

D. `SELECT * FROM PRODUCTS AS P LEFT JOIN CUSTOMERS AS C ON P.Customer_ID = C.ID WHERE P.Customer_ID IS NOT NULL`

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 80

Which of the following data integration concepts should be used if only new data is being added to a table since the previous load?

A. Extract, transform, load

B. Extract, load, transform

C. Delta load

D. Application programming interface

Answer: ([SHOW ANSWER](#))

Delta load refers to loading only the new or changed data since the last update, optimizing data integration processes.

**NEW QUESTION: 81**

A data analyst learns that a report detailing employee sales is reflecting sales only for the current month. Which of the following is the most likely cause?

- A. Lack of permissions
- B. Report refresh failure
- C. An error in SQL code
- D. Connectivity issues

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 82**

A company's analytics manager wants all reports to be delivered once every seven days. Which of the following is the best delivery method?

- A. Recurring
- B. Ad hoc
- C. Custom
- D. Snapshot

Answer: ([SHOW ANSWER](#))

A recurring delivery method schedules reports to be automatically generated and delivered at regular intervals, such as every seven days.

**NEW QUESTION: 83**

A data analyst is designing a report for a grocery chain and needs to include stores, product placement, and SKUs. Which of the following best describes the data management concept that the analyst is considering?

- A. Versioning
- B. Hierarchy
- C. Monitoring
- D. Lineage

Answer: ([SHOW ANSWER](#))

Hierarchy describes the organization of data into levels or parent-child relationships. In this case, stores, product placement, and SKUs represent related levels within a structured business hierarchy, allowing the analyst to organize and report data according to those relationships.

**NEW QUESTION: 84**

A data analyst receives four files that need to be unified into a single spreadsheet for further analysis. All of the files have the same structure, number of columns, and field names, but each file contains different values. Which of the following methods will help the analyst convert the files into a single spreadsheet?

- A. Appending
- B. Merging
- C. Parsing
- D. Clustering

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 85**

A data analyst is evaluating all conditions in a query. Which of the following is the best logical function to accomplish this task?

- A. OR
- B. NOT
- C. AND
- D. IF

**Answer: (SHOW ANSWER)**

AND requires all specified conditions in a query to be true, making it the appropriate logical function when evaluating all conditions together.

**NEW QUESTION: 86**

A data analyst receives an email from the IT department about renewing the company password, and the analyst follows the password reset link as required. Later in the week, the analyst receives the following notification when running a recurring analysis that connects to the database:

Log-in failed for user '<username>'

Which of the following is most likely the reason for this issue?

- A. The company changed its database authentication method.
- B. The password expiration process locked the account.
- C. The analyst did not change the password used to launch the report.
- D. The company is experiencing issues with password replication.

**Answer: (SHOW ANSWER)**

The recurring analysis likely uses stored database credentials. After the analyst changed the company password, the password saved in the report, scheduled job, or database connection was no longer valid. As a result, the automated process failed authentication and returned the log-in error.

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