
➤ **Vendor: CompTIA**

➤ **Exam Code: DA0-002**

➤ **Exam Name: CompTIA Data+ Exam (2025)**

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Question:1

[Visualization and Reporting]

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

- A. PowerBI
- B. RStudio
- C. Excel
- D. SAS

Answer: A

Explanation:

Question:2

[Data Acquisition and Preparation]

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

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

Answer: A

Explanation:

Question:3

[Data Concepts and Environments]

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. 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: C

Explanation:

Question:4

[Data Governance]

Which of the following explains the purpose of UAT?

- A. To begin the software application development process to enhance user experience
- B. To ensure all parts of the software application work together after each sprint
- C. To review software application crashes, create patches, and deploy to users
- D. To validate and verify that a software application meets the needs and requirements of users

Answer: D

Explanation:

Question:5

[Visualization and Reporting]

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 of the following delivery methods should the analyst use?

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

Answer: C

Explanation:

Question:6

[Visualization and Reporting]

A grocery store wants to view the revenue from the previous year, highlighting individual departments. Which of the following is the most appropriate chart to communicate this information?

- A. Gantt
- B. Pie
- C. Area
- D. Line

Answer: B

Explanation:

Question: 7

[Data Acquisition and Preparation]

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

Item

Quantity

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: B

Explanation:

Question:8

[Visualization and Reporting]

A manager wants to use the information in a recurring report on incomplete timesheets for the prior month to guide employee outreach. Which of the following report types is the best for this task?

- A. Summary
- B. Infographic
- C. Snapshot
- D. Ad hoc

Answer: A

Explanation:

Question:9

[Data Concepts and Environments]

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

Answer: A

Explanation:

Question: 10

[Visualization and Reporting]

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

Answer: A,C

Explanation:

Question: 11

[Data Analysis]

A data analyst receives a request for the current employee head count and runs the following SQL statement:

```
SELECT COUNT(EMPLOYEE_ID) FROM JOBS
```

The returned head count is higher than expected because employees can have multiple jobs. Which of the following should return an accurate employee head count?

- A. `SELECT JOB_TYPE, COUNT DISTINCT(EMPLOYEE_ID) FROM JOBS`
- B. `SELECT DISTINCT COUNT(EMPLOYEE_ID) FROM JOBS`
- C. `SELECT JOB_TYPE, COUNT(DISTINCT EMPLOYEE_ID) FROM JOBS`
- D. `SELECT COUNT(DISTINCT EMPLOYEE_ID) FROM JOBS`

Answer: D

Explanation:

Question: 12

[Data Governance]

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

Explanation:

Question: 13

[Data Governance]

Which of the following pieces of information, if made public, results in a data privacy violation?

- A. Gender
- B. Driver's license
- C. Age
- D. Employment status

Answer: B

Explanation:

Question: 14

[Data Acquisition and Preparation]

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

Answer: B

Explanation:

Question: 15

[Data Analysis]

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

20000

Baby

4

00124

West

30000

Home

6

00125

South

40000

Garden

7

00126

North

50000

Furniture

8

00127

East

60000

Baby

10

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

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

Answer: C

Explanation:

Question: 16

[Data Governance]

A data analyst receives a notification that a customized report is taking too long to load. After reviewing the system, the analyst does not find technical or operational issues. Which of the following should the analyst try next?

-
- A. Check that the appropriate filters are applied.
 - B. Check data source connections.
 - C. Check for data structure changes in the report.
 - D. Check whether other peers have the same issue.

Answer: A

Explanation:

Question: 17

[Data Concepts and Environments]

Which of the following best describes the reason an analyst would reference a data dictionary versus a source's metadata?

- A. To gather information and resources about the data
- B. To find the content and specific attributes for a dataset
- C. To find a summary of basic information about the dataset
- D. To gather information about the availability of the data

Answer: B

Explanation:

Question: 18

[Data Acquisition and Preparation]

A data analyst is joining two tables with different content and one common field. Which of the following should the analyst do to most efficiently meet this requirement?

- A. Match the records of the related columns and merge the tables.
- B. Create a cluster to facilitate data integration between the tables.
- C. Explode both tables to identify unique values and reorder the fields in one table.
- D. Append the values of the matching columns and concatenate the other data fields.

Answer: A

Explanation:

Question: 19

[Data Concepts and Environments]

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: A

Explanation:

Question: 20

[Data Analysis]

Which of the following AI types is the best option for time-series forecasting?

A. Generative AI

B. Foundational models

C. Natural language processing

D. Robotic process automation

Answer: B

Explanation:

Question: 21

[Data Governance]

A data analyst is following up on a recent, company-wide data audit of customer invoice dat

a. Which of the following is the best option for the analyst to use?

- A. PCI DSS
- B. GDPR
- C. ISO
- D. PII

Answer: B

Explanation:

Question: 22

[Data Governance]

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

Answer: C,E

Explanation:

Question: 23

[Data Analysis]

A data analyst is analyzing the following dataset:

Transaction Date

Quantity

Item

Item Price

12/12/12

11

USB Cords

9.99

11/11/11

3

Charging Block

8.89

10/10/10

5

Headphones

50.15

Which of the following methods should the analyst use to determine the total cost for each transaction?

- A. Parsing
- B. Scaling
- C. Compressing
- D. Deriving

Answer: D

Explanation:

Question: 24

[Visualization and Reporting]

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

Answer: C

Explanation:

Question: 25

[Data Concepts and Environments]

A data analyst is creating a new dataset that involves bringing together the following datasets:

Name

ID

Date of birth

Frank

23525

3/19

Martha

11290

6/13

Ellen
12141
11/4

ID
Address
City
State
23525
1234 Harding
Chicago
IL
11040
935 Terrace Hills
Chino
CA
11290
2 Speedway
Miami
FL

Which of the following would be the output if the data analyst does a FULL JOIN?

- A. NameIDDate of birthAddressCityStateFrank235253/191234
HardingChicagoILMartha112906/13935 Terrace HillsChinoCAEllen1214111/42 SpeedwayMiamiFL
- B. NameIDDate of birthAddressCityStateFrank235253/191234
HardingChicagoILMartha112906/13935 Terrace HillsChinoCAEllen1214111/42 SpeedwayMiamiFL
- C. NameIDDate of birthAddressCityStateFrank235253/191234 HardingChicagoILMartha112906/132
SpeedwayMiamiFLEllen1214111/4935 Terrace HillsChinoCA
- D. NameIDDate of birthAddressCityStateFrank235253/191234 HardingChicagoILMartha112906/132
SpeedwayMiamiFLEllen1214111/411040935 Terrace HillsChinoCA

Answer: D

Explanation:

Question: 26

[Data Analysis]

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: C

Explanation:

Question: 27

[Visualization and Reporting]

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

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

Answer: C

Explanation:

Question: 28

[Data Analysis]

A data analyst creates a report, and some of the fields are empty. Which of the following conditions should the analyst add to a query to provide a list of all the records with empty fields?

- A. WHERE
[ColumnName]=NULL
- B. WHERE
[ColumnName] IS NULL
- C. WHERE
[ColumnName] IS NOT NULL
- D. WHERE
[ColumnName] = 'NULL'

Answer: B

Explanation:

Question: 29

[Data Concepts and Environments]

A data analyst needs to get an accurate idea of how data components are automated. Which of the following types of documentation should the analyst review first?

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

Answer: A

Explanation:

Question: 30

[Data Acquisition and Preparation]

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

CourseID

SectionNumber

StudentID

MATH1000

1

10009

MATH1000

2

10007

PSYC1500

1

10009

PSYC1500

1

10015

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

Answer: B

Explanation:

Question: 31

[Data Concepts and Environments]

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

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

Answer: D

Explanation:

Question: 32

[Data Analysis]

A data analyst must combine service calls into low-, medium-, and high-priority levels in order to analyze organizational responses. Which of the following techniques should the analyst use for this task?

- A. Augmentation
- B. Imputation
- C. Scaling
- D. Binning

Answer: D

Explanation:

Question: 33

[Data Analysis]

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. An error in SQL code
- C. Report refresh failure
- D. Connectivity issues

Answer: B

Explanation:

Question: 34

[Visualization and Reporting]

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?

- 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: A

Explanation:

Question: 35

[Data Analysis]

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

DateTime	Count
2024-01-01	12
2024-01-02	245
2024-01-02	13
2024-01-03	13

2024-01-03

12

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: B

Explanation:

Question: 36

[Visualization and Reporting]

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: A

Explanation:

Question: 37

[Data Governance]

A data breach occurs at a company. Which of the following actions should be taken?

- A. Make an announcement on social media so customers are aware as soon as possible.
- B. Tell the company management team and then tell regulatory agencies.
- C. Keep the incident a secret until the issue is resolved.
- D. Inform the entire IT sector, but ask for discretion.

Answer: B

Explanation:

Question: 38

[Data Concepts and Environments]

Which of the following data repositories should a company use when structured data about the whole company needs to be stored in a predefined data structure?

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

Answer: B

Explanation:

Question: 39

[Data Analysis]

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: C

Explanation:

Question: 40

[Data Governance]

A data analyst troubleshoots a dashboard every day for a week. Which of the following techniques best addresses how to validate the data moving forward?

- A. Inquiring about structure changes
- B. Setting up monitoring alerts
- C. Reaching out to users daily
- D. Rebuilding the dashboard

Answer: B

Explanation:

Question: 41

[Data Acquisition and Preparation]

A data analyst needs to join together a table data source and a web API data source using Python. Which of the following is the best way to accomplish this task?

- A. Convert the data from the API and database to a varchar format and convert them to pandas DataFrames that are then merged together.
- B. Convert the data from the API and database to a JSON format and convert them to pandas DataFrames that are then merged together.
- C. Convert the data from the API and database to a TXT format and convert them to pandas DataFrames that are then merged together.
- D. Convert the data from the API and database to a string format and convert them to pandas DataFrames that are then merged together.

Answer: B

Explanation:

Question: 42

[Data Analysis]

A data analyst creates a report that identifies the middle 50% of the collected data. Which of the following best describes the analyst's findings?

- A. Interquartile range
- B. The difference between mode and median
- C. Mean variance
- D. Skewness from the slope

Answer: A

Explanation:

Question: 43

[Visualization and Reporting]

A sales manager wants to understand how sales are trending year over year. Which of the following chart types is the most appropriate to display the information?

- A. Line
- B. Donut
- C. Bubble
- D. Hierarchy

Answer: A

Explanation:

Question: 44

[Data Governance]

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: C

Explanation:

Question: 45

[Data Analysis]

A data professional wants to identify all customers who made a purchase in January. Given the following table:

CustomerID

Month

Sales

0001

January

13000

0002

March

10000

0003

April

23000

0004

May

10000

Which of the following types of functions should the professional use to flag the customers?

- A. Statistical
- B. Logical

- C. Mathematical
- D. Date

Answer: B

Explanation:

Question: 46

[Data Concepts and Environments]

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

- A. Data mart
- B. Web scraping
- C. Database
- D. Application programming interface

Answer: D

Explanation:

Question: 47

[Data Analysis]

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

Answer: B

Explanation:

Question: 48

[Visualization and Reporting]

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

Februar

y 145

Onlin

e

Marc

h

165

Stor

e

Apr

il

200

Stor

e

Ma

y

125

Onlin

e

June

155

Digit

al

July

120

Onlin

e

Augu

st

145

Digital

September

160

Which of the following visualizations is the most appropriate?

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

Answer: B

Explanation: