

EXAMTOPICS

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CERTIFICATION TEST

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Which of the following makes data unreadable without a required key?

- A. Anonymization
- B. Role-based access control
- C. Encryption
- D. Masking

Suggested Answer: *C*

None

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 the initial 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.

Suggested Answer: A

None

A data analysis 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:

Sales order table

Customer_ID	Region	Amount_spent	Product_category	Quantity_of_items
00123	East	200000	Baby	4
00124	West	300000	Home	6
00125	South	400000	Garden	7
00126	North	500000	Furniture	8
00127	East	600000	Baby	10

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

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

Suggested Answer: C

None

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

Suggested Answer: *B*

None

A data analyst is analyzing the following data set:

Transaction Date	Qty	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

Suggested Answer: *D*

None

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

Suggested Answer: A

None

Which of the following is found in metadata?

- A. Transformations
- B. Data lineage
- C. Syntax
- D. Variable types

Suggested Answer: *B*

None

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

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

Suggested Answer: *D*

None

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.

Suggested Answer: *B*

None

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

Suggested Answer: *B*

None

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

Suggested Answer: *D*

None

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

Suggested Answer: *D*

None

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

Suggested Answer: *D*

None

A data analyst notices that a certain field that stores customer IDs in a defined format has incorrect values. Which of the following could help the analyst identify the issue?

- A. Outliers
- B. Validation
- C. Redundancy
- D. Completeness

Suggested Answer: *B*

None

Which of the following tools would a data analyst most likely use to modify a simple data connection property in a configuration file?

- A. RStudio
- B. SSMS
- C. Notepad++
- D. Toad

Suggested Answer: *C*

None

After a database upgrade, a report using datetime calculations does not complete due to an arithmetic overflow error. Which of the following is the best way for a data analyst to troubleshoot the issue?

- A. Changing the report filter
- B. Reviewing error logs
- C. Verifying the columns' data types
- D. Checking that the data has refreshed

Suggested Answer: *C*

None

A data analyst is preparing a report for external users. The analyst must ensure that visuals can be identified as belonging to the organization. Which of the following should the analyst add to the report to best meet this requirement?

- A. Legal disclaimer
- B. Infographic
- C. Subtitle
- D. Watermark

Suggested Answer: *D*

None

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

Suggested Answer: *C*

None

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

Suggested Answer: *C*

None

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

Suggested Answer: A

None

A data analyst needs to join data from two tables in a way that all data from one table is shown even if a matching row is not in the other table. Which of the following should the analyst use to achieve the desired output?

- A. INNER JOIN
- B. CROSS JOIN
- C. RIGHT OUTER JOIN
- D. FULL OUTER JOIN

Suggested Answer: C

None

Which of the following best represents a type of infrastructure that requires a company to purchase and maintain all of its own servers?

- A. Private
- B. Cloud
- C. Hybrid
- D. Public

Suggested Answer: A

None

A data analyst receives a flat file that includes dates. The analyst needs to calculate the number of days from the dates on the file to the current date. Which of the following is the best way to complete this task?

- A. Convert data to date format and use date functions.
- B. Validate the date format with logical functions and use date functions to analyze.
- C. Use date functions to analyze the data with no conversion.
- D. Transform data to a numerical value and use mathematical functions.

Suggested Answer: A

None

A manager wants a report that contains the days off for each direct report. The manager needs this report to always be up-to-date with the latest data. Which of the following describes the refresh frequency that the manager is requesting?

- A. Real-time
- B. Ad hoc
- C. Snapshot
- D. Dynamic

Suggested Answer: A

None

The human resources department wants to know the number of employees who earn \$125,000 or more. However, the department is concerned about duplicates in the data set. Given the following table:

Employee

Employee_ID	Level	Salary
001	1	100000
002	2	200000
003	2	250000
004	2	125000
001	1	100000
002	2	200000
001	1	100000

Which of the following SQL statements resolves this issue?

- A.

```
SELECT DISTINCT Employee_ID
FROM Employee
WHERE Salary >= 125000
```
- B.

```
SELECT COUNT (DISTINCT Employee_ID)
FROM Employee
WHERE Salary >= 125000
```
- C.

```
SELECT DISTINCT Employee_ID
FROM Employee
WHERE Salary > 125000
```
- D.

```
SELECT COUNT (Employee_ID)
FROM Employee
WHERE Salary >= 125000
```

Suggested Answer: B

None

The human resources department wants to understand the relationship between the ages and incomes of all employees. Which of the following graphics is the most appropriate to present the analysis?

- A. Scatter plot
- B. Area plot
- C. Bar chart
- D. Pie chart

Suggested Answer: A

None

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

Suggested Answer: *D*

None

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

Suggested Answer: *B*

None

Which of the following is the best language to use in a notebook?

- A. Haskell
- B. Python
- C. JavaScript
- D. SAS

Suggested Answer: *B*

None

A report was previously working but now gives the following error:

The column FullName is invalid or does not exist.

Which of the following actions should a data analyst take to investigate the issue?

- A. Consult the data flow diagram to view the table definition.
- B. Check report logs for other column errors.
- C. Rerun the report to see if the column error is transient.
- D. Query the table to determine the valid column names.

Suggested Answer: *D*

None

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?

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

SELECT name
B. FROM Customers
 WHERE name LIKE '%ANT%'

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

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

Suggested Answer: *D*

None

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

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

**Suggested Answer:** *D*

None

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

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

**Suggested Answer:** *D*

None

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.

**Suggested Answer:** *D*

None

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

**Suggested Answer:** A

None

A data analyst is querying a database. However, the analyst is unfamiliar with the table names, field names, data types, and field definitions. Which of the following is the best place to look for this information?

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

**Suggested Answer: A**

None

A data analyst needs to create a combined report that includes information from the following two tables:

### Managers table

| ID   | First name | Last name | Job title |
|------|------------|-----------|-----------|
| 1001 | John       | Doe       | Manager   |
| 1002 | Jane       | Roe       | Director  |

### Non-managers table

| ID   | First name | Last name | Job title            |
|------|------------|-----------|----------------------|
| 1003 | Robert     | Roe       | Business Analyst     |
| 1004 | Jane       | Doe       | Sales Representative |
| 1005 | John       | Roe       | Operations Analyst   |

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

- A. Group
- B. Join
- C. Union
- D. Nested

**Suggested Answer:** C

None

A data analyst is creating a statistical table that contains basic information about the data set. Which of the following is the best statistical method for this scenario?

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

**Suggested Answer: A**

None

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

**Suggested Answer:** *D*

None

Given the following tables:

### Individual table

| ID | FirstName | LastName |
|----|-----------|----------|
| 1  | John      | Doe      |

### Output

| ID | FullName |
|----|----------|
| 1  | JohnDoe  |

Which of the following is the best option to display output from FirstName and LastName as FullName?

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

**Suggested Answer:** A

None

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

| Student ID | Subject   | Score |
|------------|-----------|-------|
| 123        | Math      | 100   |
| 123        | Chemistry | 80    |
| 234        | Biology   | 92    |
| 234        | Math      | 96    |
| 123        | Chemistry | 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

**Suggested Answer:** A

None