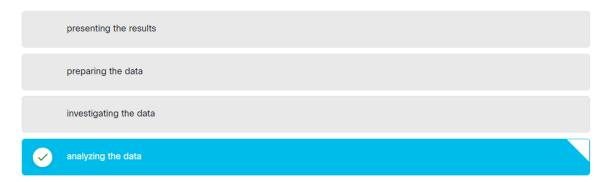
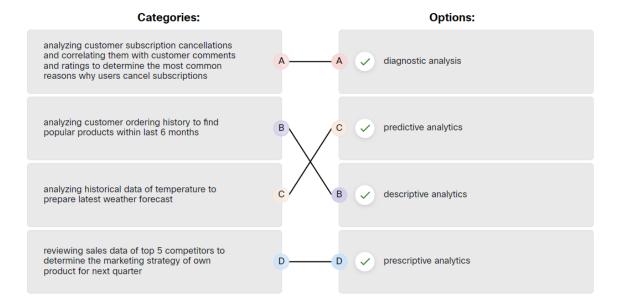
A data analyst uses Excel and Tableau to identify patterns and correlations in a dataset to draw conclusions. Which phase of the analytic process is the analyst currently working on?



### **Question 2**

Match the task and purpose to the appropriate Big Data analytics method.



Which statement is true concerning data analytics?

Prescriptive analytics uses historical data to provide regular reports on events that have already happened.

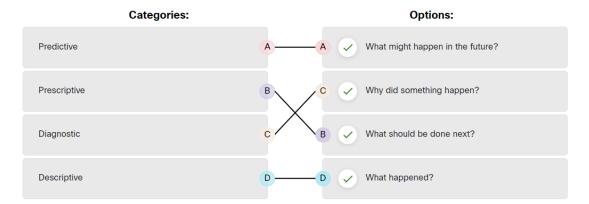
Descriptive analytics uses a feedback system to track the outcome of actions taken.

Predictive analytics uses simulation models and forecasting to suggest what could happen.

Descriptive analytics attempts to predict what will happen next.

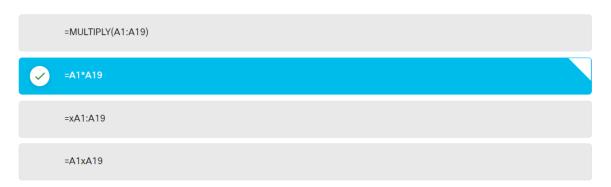
#### **Question 4**

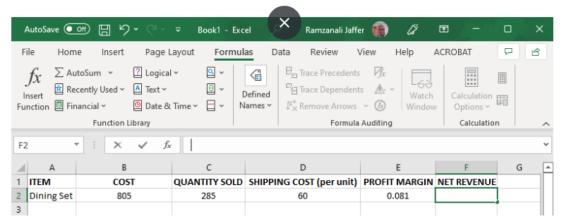
Match the type of data analysis with the question it can answer.



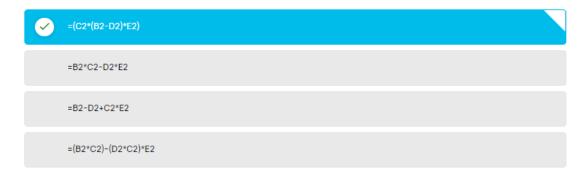
### **Question 5**

Which Microsoft Excel formula would correctly multiply a value in cell A1 with a value in cell A19?



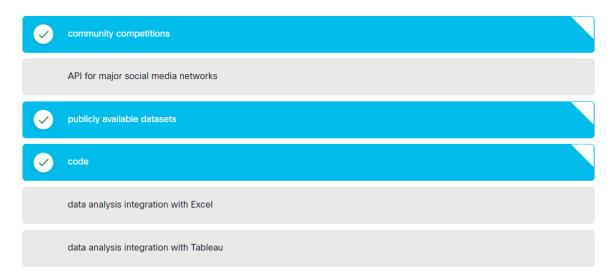


Refer to the exhibit. A data analyst wants to create a formula in Microsoft Excel that will automatically calculate the net revenue from the sales of dining sets. Which formula inserted in cell F2 will accomplish this?

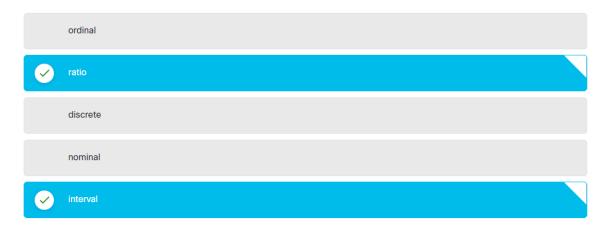


#### **Question 7**

What are three resources provided by the Kaggle web site? (Choose three.)



What are two types of continuous variables? (Choose two.)

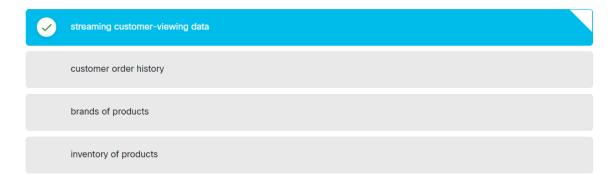


## **Question 9**

Which two tasks are performed as part of the transform step of the ETL data process? (Choose two.)



An analyst in an online order company is researching products that online customers spend the most time browsing for on the website but do not buy. The result of the analysis will enable the company to release quick discount notices on the website to encourage customers to buy those products. What relevant data is required to do the research?



### **Question 11**

Which statement is true about the ELT and ETL process?

In the ELT process, the load step occurs after the transform step.

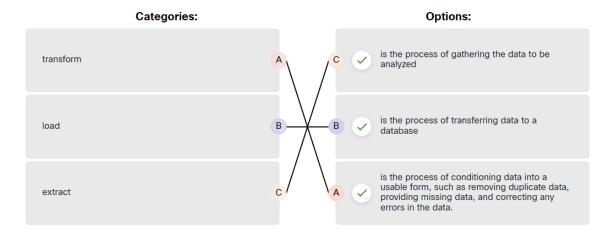
In the ETL process, the load step occurs before the transform step.  $% \label{eq:equation:equation}%$ 

In the ETL process, the extract step occurs after the load step.



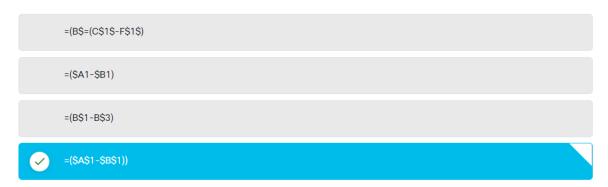
In the ELT process, the transform step occurs on the stored data as it is used.

Match the ETL process with its description.

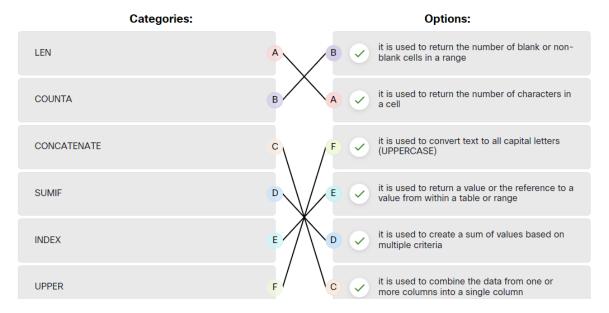


## **Question 13**

Which option in Microsoft Excel represents a formula with an absolute reference?

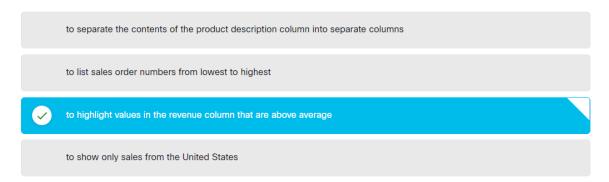


Match the Microsoft Excel function with its description.

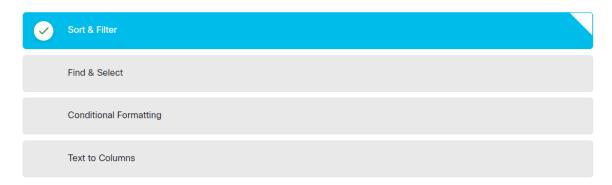


## **Question 15**

How can data analysts use the Conditional Formatting tool in Excel to aid in data analysis of bike sales records?



A data analyst needs to organize sales data for analysis. Which Excel function can order the data by date sold, with the most recent sales listed first?



### **Question 17**

Which action is taken during the data investigation step of the data analysis lifecycle?

Determine if there is enough data to complete the analysis.

Transform the data into a format appropriate for the analysis methods and tools.



Determine if the data is complete and relevant for the analysis.

Identify patterns, relationships, and correlations in the data.

### **Question 18**

A learner is analyzing a large volume of data in a Microsoft Excel spreadsheet and wishes to find duplicate data values. The data has been organized in a table where each row has different but related forms of data in each column. Which Microsoft Excel function can be used to do this?

SUM

ISNA



VLOOKUE

IF

What is a statistical analysis result that a descriptive statistical analysis will not provide?



### **Question 20**

What is an outlier in data analytics?

it is a point in inferential data that is numeric

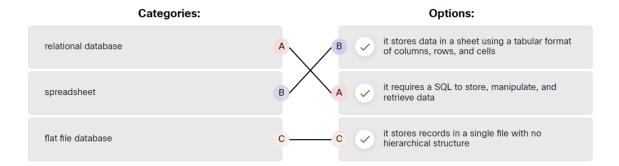
it is a point in descriptive data that is historical

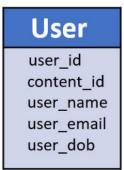
it is a pointer to the sample data set

it is a value or data point that varies significantly from others in the data set

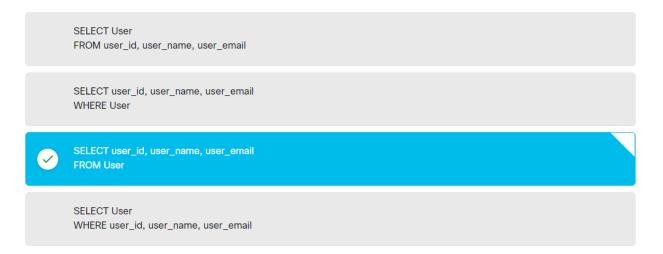
### **Question 21**

Match the type of database to the best description.



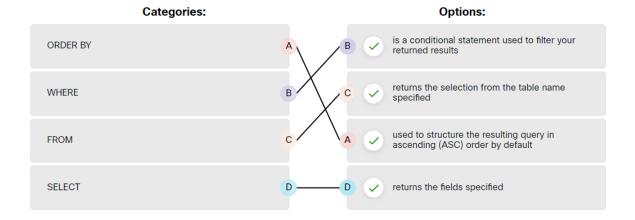


Refer to the exhibit. Which option will correctly display the user names and email addresses of users in this table?



### **Question 23**

Drag the SQL Data Manipulation Language (DML) statements to the correct description.



What is referenced by the FROM statement in an SQL query?

the column where the data is located

the row where the data is located



the table containing the data

the database to be queried

### **Question 25**

What does a field refer to in database schema terminology?

a unique record within the database

a collection of attributes of an individual item

a collection data in rows and columns



a specific attribute of an individual record

## **Question 26**

What is the purpose of the DML language commands in SQL?

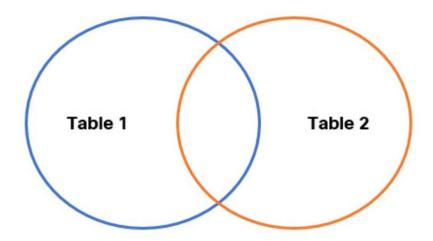
to create, modify or delete objects in the database schema

to manage updates to the database storage

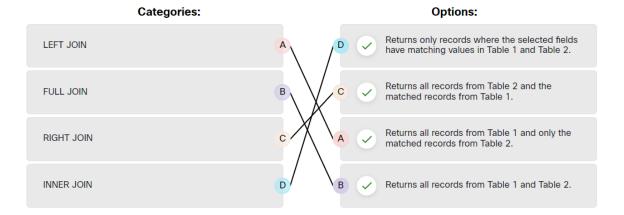
to change rights and permissions to data in the database



to select, update, insert or delete records and values from a table



Refer to the exhibit. Match the JOIN operation with the proper description.



Movie table:

MovieID – primary key

Title – name of the movie

Date – date the movie was released

Cost – total cost of production

Review table:

ID – Review ID – primary key

Movie Title – name of the movie

Author Name – name of the reviewer

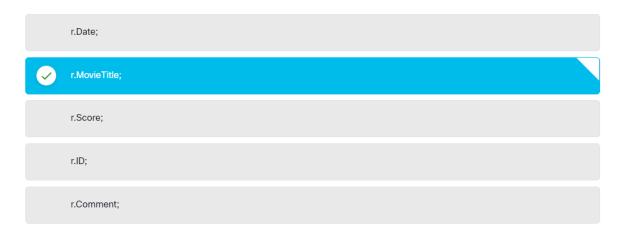
Comment – review text

Date – date review is posted

Score – number of stars awarded

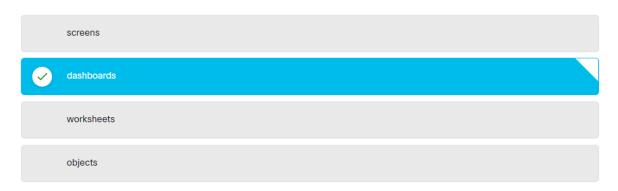
Refer to the exhibit. A data analyst writes a SQL query to extract information from multiple tables in the Movies database. To complete the ON command, what needs to be entered in place of the question mark in this query?

SELECT m.Title, m.Date, r.AuthorName, r.Score, r.Comment, r.Date FROM Review AS r
JOIN Movie AS m
ON m.Title = ?;



## **Question 29**

What Tableau Public feature is used to consolidate multiple views and visualizations?



Why would you use Tableau in your data analysis?

To display data in a tabular format.



To create visualizations

To perform mathematical calculations using formulas and built-in functions.

To communicate with and query databases.

### **Question 31**

Which two are benefits of organizing information from multiple datasets into a dashboard? (Choose two)



The information is easily analyzed.

The information is easily secured.



The information is easily visualized.

The information is easily tracked.

### **Question 32**

You are preparing a presentation that needs a visualization showing the relative levels of coffee production in the coffee regions of the world. Which type of visualization in Tableau is well suited for displaying this type of data?

bar chart



bubble man

area graph

heat map

Which statement is true in respect of avoiding bias in data analytics?

use a small sample set that supports your hypothesis

don't allow the data to confirm your conclusions

focus on the larger patterns and trends and include outliers in the overall analysis



avoid selecting only data and methods that support your assumption:

### **Question 34**

What assurance does data integrity provide?

Data is recoverable.



Data is unaltered in transit

Data access is restricted.

Data is available when requested.

## **Question 35**

Which type of bias in data analysis can be caused by the influence of outliers?

confirmation

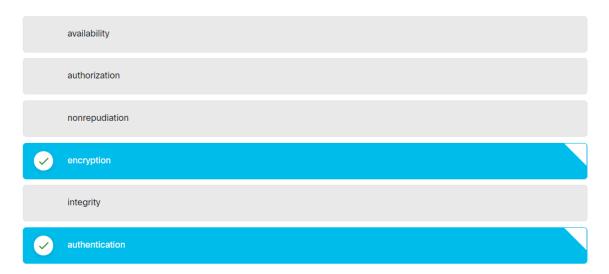


information

selection

interpretation

What are two methods that ensure confidentiality? (Choose two.)



#### **Question 37**

Which three features should your data project portfolio contain to ensure that it is considered favorably by employers and recruiters? (Choose three.)

there are links to software, so non-technical reviewers can replicate your analysis

it is organized and easy to navigate

there are links to all your projects on the homepage

it uses a layout and presentation that showcases your web design and markup skills

each project has a clear outcome or conclusion

it contains many multi-colored charts and graphics that show the results of the data analysis

Why is the Jupyter Notebook tool useful when developing and testing data analysis software?

markdown text explains the operation of SQL queries and displays the results

when the Python code is compiled, each step is displayed



program execution output is displayed dynamically in real-time

program output is displayed in the standalone Jupyter Notebook application

### **Question 39**

Which data analytic tool can create interactive documents containing executable program code and markdown text?

Kaggle

Jupyter Notebooks

Tableau

Excel

What are the three functions of programming languages optimized for data analysis? (Choose three)

