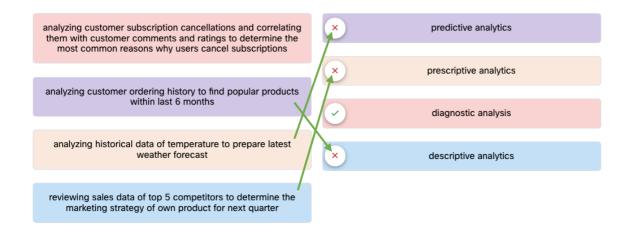
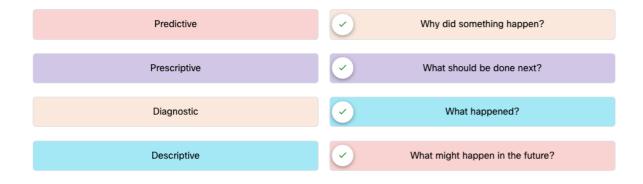
Match the task and purpose to the appropriate Big Data analytics method.



Analyzing customer subscription cancellations and correlating them with customer comments and ratings to letermine the most common reasons why users cancel subscriptions	Diagnostic analysis
Analyzing customer ordering history to find popular products within last 6 months	Descriptive analytics
Analyzing historical data of temperature to prepare latest weather forecast	Predictive analytics
Reviewing sales data of top 5 competitors to determine the marketing strategy of own product for next quarter	Prescriptive analytics

#### **Question 2**

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



Which statement is true concerning data analytics?

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



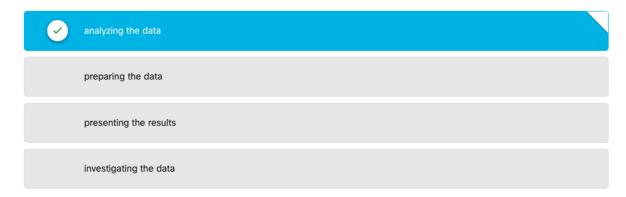
Predictive analytics uses simulation models and forecasting to suggest what could happen.

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

Descriptive analytics attempts to predict what will happen next.

#### **Question 4**

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?

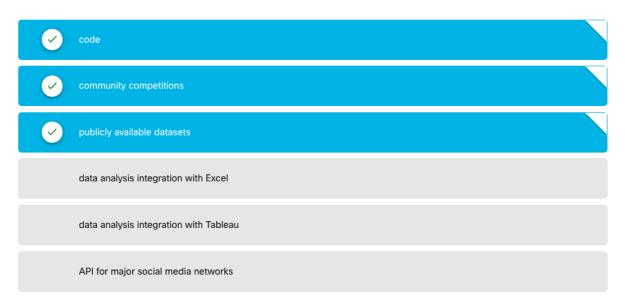


## **Question 5**

Which type of variable is used for qualitative values such as gender or eye color?

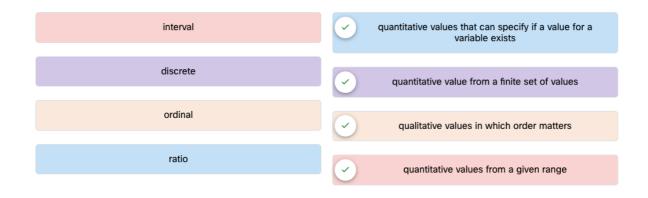


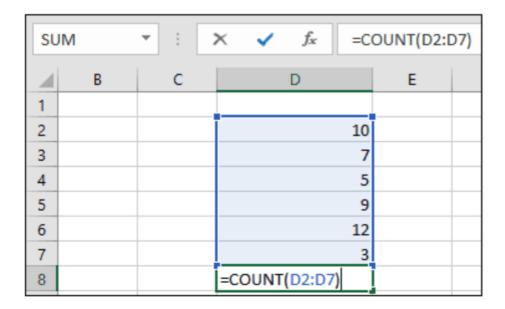
What are three resources provided by the Kaggle web site? (Choose three.)



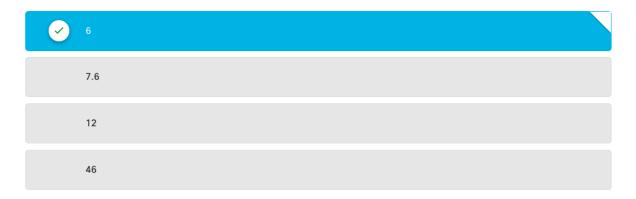
#### **Question 7**

Match the variable with the description.



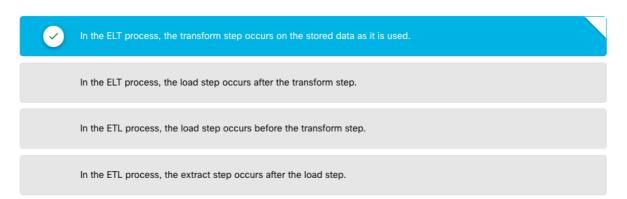


Refer to the exhibit. What is the resulting output from the formula in cell D8?

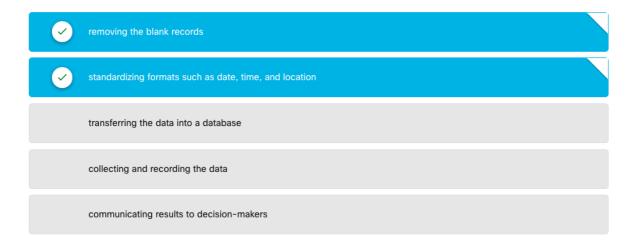


## **Question 9**

Which statement is true about the ELT and ETL process?



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



## **Question 11**

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?

brands of products

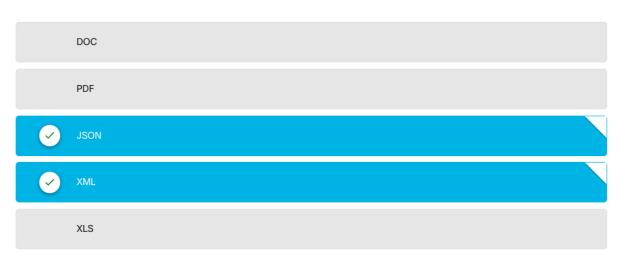
inventory of products

customer order history

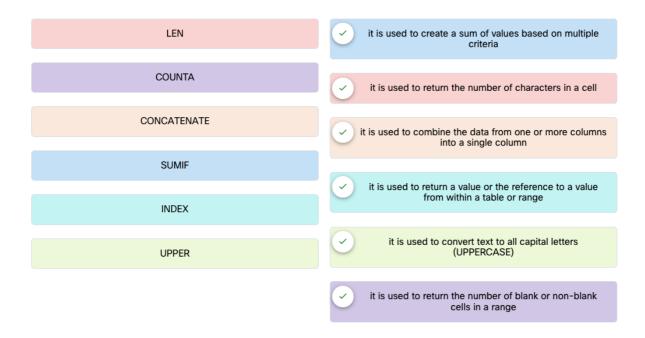
streaming customer-viewing data

## **Question 12**

What are two plain-text file types that are compatible with numerous applications and use a standard method of representing data records? (Choose two.)

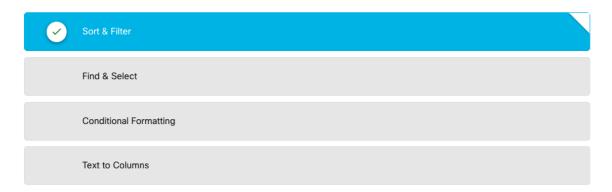


Match the Microsoft Excel function with its description.

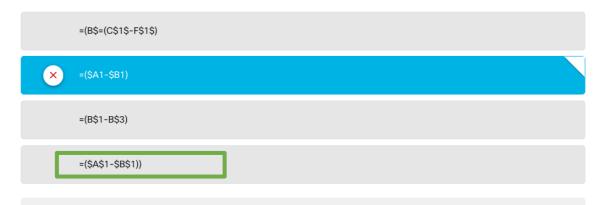


#### **Question 14**

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?



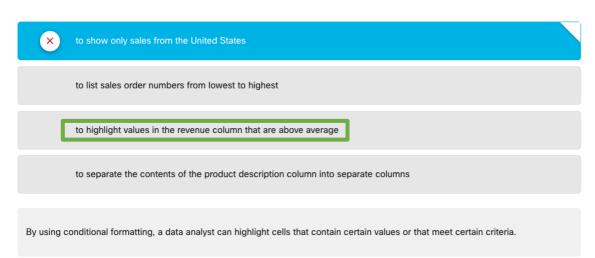
Which option in Microsoft Excel represents a formula with an absolute reference?



Dollar symbols in a cell reference indicate to Microsoft Excel to treat the cell reference as absolute and to always refer to the value of the cell regardless of whether it is moved or where the formula is located. An absolute reference is designated in a formula by the addition of a dollar sign (\$) before the column and row. As an absolute reference was used to refer to Cell B1, the formula will automatically update to wherever the contents of this cell is moved.

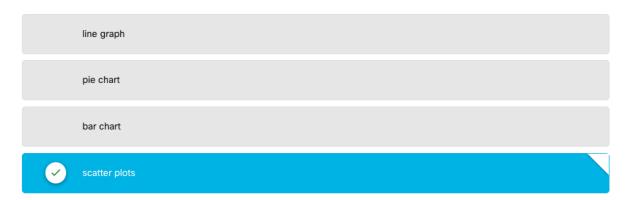
#### **Question 16**

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

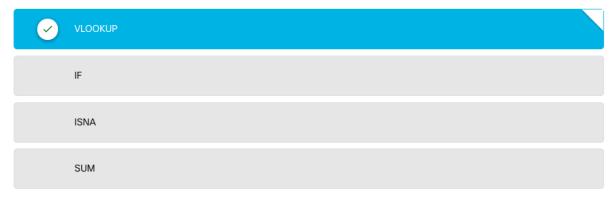


#### **Question 17**

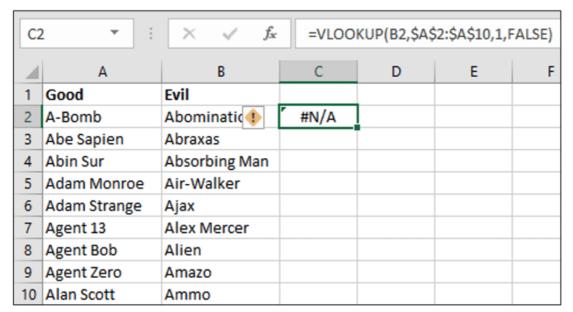
A data analyst wants to compare the average life expectancy and GDP for forty countries. Which type of visual representation would best suit this task?



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?

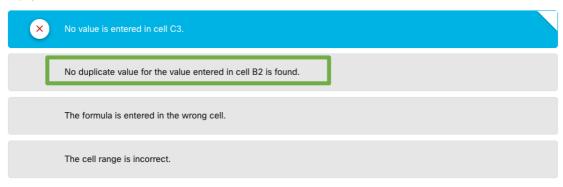


#### **Question 19**



Refer to the exhibit. A learner is analyzing a data spreadsheet in Microsoft Excel and notices a formula function

"=VLOOKUP(B1,\$A\$2:\$A\$10,1,FALSE)". When clicking on cell C2, the value displayed in the field in cell C2 is "#N/A". Why is this value displayed?



VLOOKUP can also be used to help with data cleaning by finding duplicates. With VLOOKUP you can compare two columns (or lists) and find duplicate values. The formula is written in cell C2 as =VLOOKUP(B1,\$A\$2:\$A\$10,1,FALSE). This formula compares the value in B1 with the range A2:A10. If there is no duplicate then an error is displayed as "#N/A". If a duplicate was found it would display the name of the duplicate.

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

calculation of how widely dispersed the data is

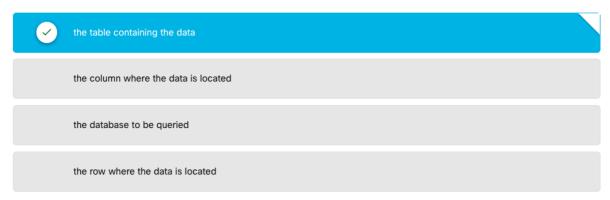
calculation of the smallest or largest value

visualization of particular data trends occurring

predictions made about other data sets that are not in the population

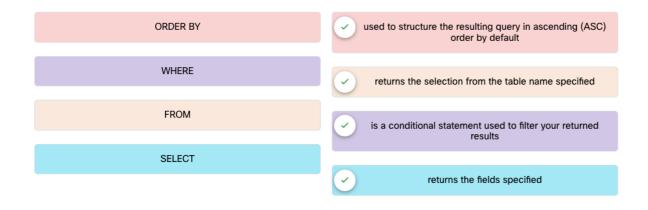
#### **Question 21**

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



#### **Question 22**

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



Movie			
MovieID	Title	Release_date	
33	Unforgiven	1992-08-07	
35	The Simpsons Movie	2007-07-25	
38	Eternal Sunshine of the Spotless Mind	2004-03-19	
55	Amores perros	2000-06-16	
58	Pirates of the Caibbean: Dead Man's Chest	2006-06-20	

Refer to the exhibit. A portion of the Movie table from the Movies database is shown. A data analyst is writing a query that will return the title and release date of movies released after 2000. The analyst further needs the list ordered by the release date. Which query will return the required results?



SELECT Title, Release\_date

FROM Movie

WHERE Release\_date > '2000-12-31'

**ORDER** BY Release-date

**SELECT** Movie

FROM Title, Release\_date

WHERE Release\_date > '2000-12-31'

**ORDER** BY Release-date

SELECT Title, Release\_date

FROM Release\_date > '2000-12-31'

WHERE Movie

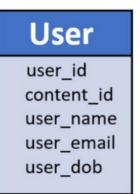
ORDER BY Release-date

SELECT Release\_date > '2000-12-31'

FROM Title, Release\_date

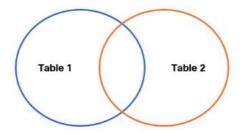
WHERE Movie

ORDER BY Release-date



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





# **Question 25**

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

LEFT JOIN	Returns all records from Table 1 and only the matched records from Table 2.
FULL JOIN	Returns all records from Table 2 and the matched records from Table 1.
RIGHT JOIN	
INNER JOIN	Returns only records where the selected fields have matching values in Table 1 and Table 2.
	Returns all records from Table 1 and Table 2.

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



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

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

## **Question 27**

What does a field refer to in database schema terminology?

a unique record within the database

a collection data in rows and columns

a specific attribute of an individual record



a collection of attributes of an individual item

A field within the database schema refers to a specific attribute of an individual record. Fields are named by column headings. An individual movie title in the Title column would be a field in the movie table.

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

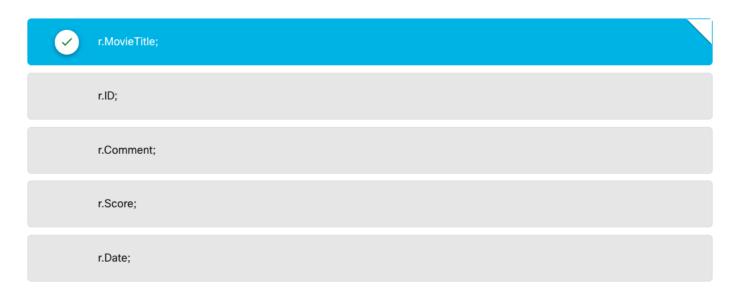
#### **Question 28**

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 = ?;

Date - date review is posted

Score - number of stars awarded



## **Question 29**

Why would you use Tableau in your data analysis?

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

To communicate with and query databases.



To create visualizations.

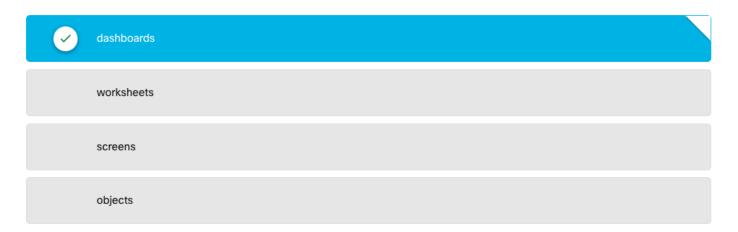
To display data in a tabular format.

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



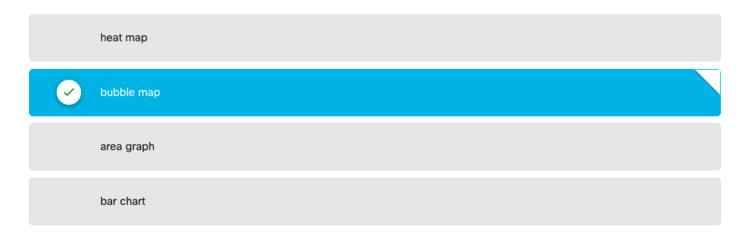
## **Question 31**

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



## **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?

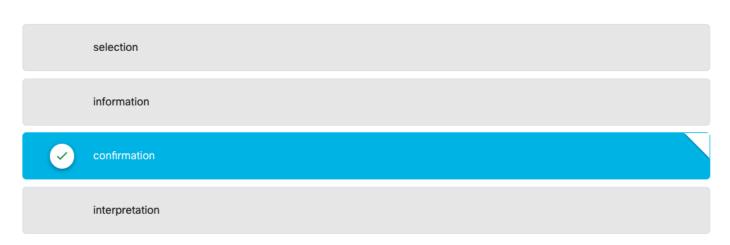


What are two methods that ensure confidentiality? (Choose two.)

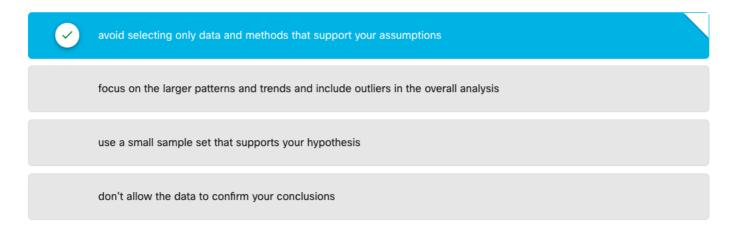


## **Question 34**

A data analyst conducting a study stops collecting more data once the evidence starts to support the hypothesis. What type of bias has the analyst introduced into the findings?

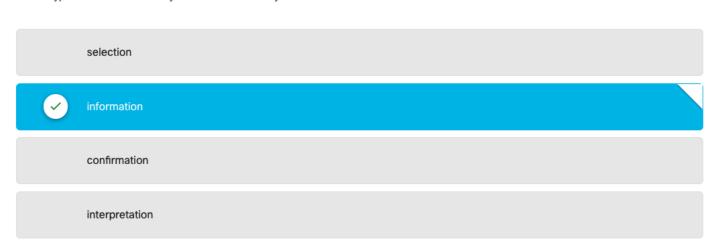


Which statement is true in respect of avoiding bias in data analytics?

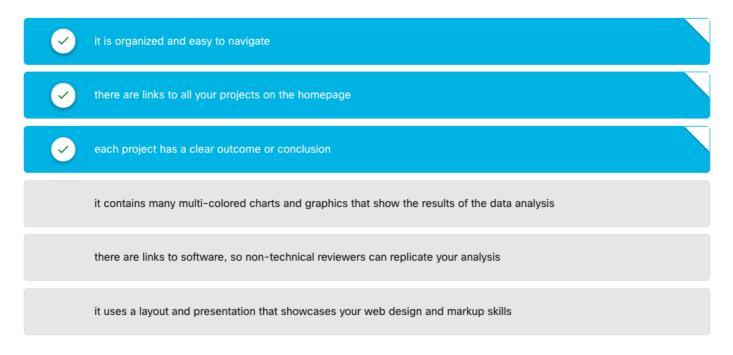


# **Question 36**

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

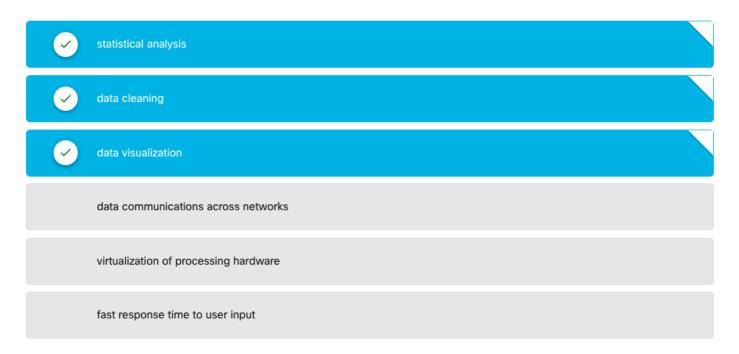


Which three features should your data project portfolio contain to ensure that it is considered favorably by employers and recruiters? (Choose three.)



## **Question 38**

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



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



## **Question 40**

Which feature of Python reduces the coding requirements when data tasks such as exploratory data analysis and machine learning are required?

