

1. What represent a population parameter?

STATISTICS WORKSHEET-2

Q1 to Q15 have only one correct answer. Choose the correct option to answer your question.

	A) SD
	B) mean
	C) both
	D) none
2.	What will be median of following set of scores (18,6,12,10,15)?
	A) 14
	B) 18
	C) 12
	D) 10
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3.	What is standard deviation?
	A) An approximate indicator of how number vary from the mean
	B) A measure of variability
	C) The square root of the variance
	D) All of the above
4.	The intervals should be in a grouped frequency distribution
	A) Exhaustive
	B) Mutually exclusive
	C) Both of these
	D) None
5.	What is the goal of descriptive statistics?
	A) Monitoring and manipulating a specific data
	B) Summarizing and explaining a specific set of data
	C) Analyzing and interpreting a set of data
	D) All of these
6.	A set of data organized in a participant by variables format is called
0.	A) Data junk
	B) Data set
	C) Data view
	D) Data dodging
7	
7.	In multiple regression, independent variables are used
	A) 2 or more
	B) 2
	C) 1
_	D) 1 or more
8.	Which of the following is used when you want to visually examine the relationship between 2 quantitative
	variables?
	A) Line graph
	B) Scatterplot
	C) Bar graph
	D) Pie graph
9.	Two or more groups means are compared by using
	A) analysis -
	B) Data analysis
	C) Varied Variance analysis
	D) Analysis of variance
10.	is a raw score which has been transformed into standard deviation units?
	A) Z-score
	B) t-score
	C) e-score
	D) SDU score
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11.	is the value calculated when you want the arithmetic average?
	A) Median
	B) mode
	C) mean
	D) All
12.	Find the mean of these set of number (4,6,7,9,2000000)?
	A) 4
	B) 7
	C) 7.5
	D) 400005.2
13.	is a measure of central tendency that takes into account the magnitude of scores?
	A) Range
	B) Mode
	C) Median
	D) Mean
14.	focuses on describing or explaining data whereasinvolves going beyond immediate
	data and making inferences
	A) Descriptive and inferences
	B) Mutually exclusive and mutually exhaustive properties
	C) Positive skew and negative skew
	D) Central tendency
15.	What is the formula for range?
	A) H+L
	B) L-H
	C) LXH
	D) HT

FLIP ROBO



WORKSHEET 2 SQL

Q1 to Q13 have only one correct answer. Choose the correct option to answer your question.

- 1. Which of the following constraint requires that there should not be duplicate entries?
 - A) No Duplicity

B) Different

C) Null

- D) Unique
- 2. Which of the following constraint allows null values in a column?
 - A) Primary key

B) Empty Value

C) Null

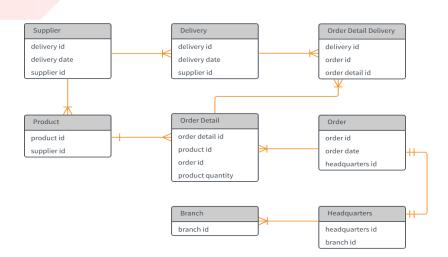
- D) None of them
- 3. Which of the following statements are true regarding Primary Key?
 - A) Each entry in the primary key uniquely identifies each entry or row in the table
 - B) There can be duplicate values in a primary key column
 - C) There can be null values in Primary key
 - D) None of the above.
- 4. Which of the following statements are true regarding Unique Key?
 - A) There should not be any duplicate entries
 - B) Null values are not allowed
 - C) Multiple columns can make a single unique key together
 - D) All of the above
- 5. Which of the following is/are example of referential constraint?
 - A) Not Null

B) Foreign Key

C) Referential key

D) All of them

For Questions 6-13 refer to the below diagram and answer the questions:



- 6. How many foreign keys are there in the Supplier table?
 - A) 0

B) 3

C) 2

- D) 1
- 7. The type of relationship between Supplier table and Product table is:
 - A) one to many

B) many to one

C) one to one

- D) many to many
- 8. The type of relationship between Order table and Headquarter table is:
 - A) one to many

B) many to one

	C) one to one	D) many to many	
9.	Which of the following is a foreign k	tey in Delivery table?	
	A) delivery id	B) supplier id	
	C) delivery date	D) None of them	
10. The number of foreign keys in order details is:			
	A) 0	B) 1	
	C) 3	D) 2	
11.	The type of relationship between Ord	der Detail table and Product table is:	
	A) one to many	B) many to one	
	C) one to one	D) many to many	
12. DDL statements perform operation on which of the following database objects?			
	A) Rows of table	B) Columns of table	
	C) Table	D) None of them	
13.	Which of the following statement is	used to enter rows in a table?	
	A) Insert in to	B) Update	
	C) Enter into	D) Set Row	
4 and Q15 have one or more correct answer. Choose all the correct option to answer your question			

Q1 n.

- 14. Which of the following is/are entity constraints in SQL?
 - A) Duplicate

B) Unique

C) Primary Key

- D) Null
- 15. Which of the following statements is an example of semantic Constraint?
 - A) A blood group can contain one of the following values A, B, AB and O.
 - B) A blood group can only contain characters
 - C) A blood group cannot have null values
 - D) Two or more donors can have same blood group



MACHINE LEARNING

Q1 to Q11 have only one correct answer. Choose the correct option to answer your question.

1	 Movie Recommendation systems are an example of: i) Classification ii) Clustering iii) Regression Options: a) 2 Only b) 1 and 2 c) 1 and 3 d) 2 and 3
2	2. Sentiment Analysis is an example of: i) Regression ii) Classification iii) Clustering iv) Reinforcement Options: a) 1 Only b) 1 and 2 c) 1 and 3 d) 1, 2 and 4
3	3. Can decision trees be used for performing clustering?a) Trueb) False
4	 Which of the following is the most appropriate strategy for data cleaning before performing clustering analysis, given less than desirable number of data points: i) Capping and flooring of variables ii) Removal of outliers
5	 What is the minimum no. of variables/ features required to perform clustering? a) 0 b) 1 c) 2 d) 3
6	5. For two runs of K-Mean clustering is it expected to get same clustering results?a) Yesb) No
7	 7. Is it possible that Assignment of observations to clusters does not change between successive iterations in K-Means? a) Yes b) No c) Can't say d) None of these



MACHINE LEARNING

- 8. Which of the following can act as possible termination conditions in K-Means?
 - i) For a fixed number of iterations.
 - ii) Assignment of observations to clusters does not change between iterations. Except for cases witha bad local minimum.
 - iii) Centroids do not change between successive iterations.
 - iv) Terminate when RSS falls below a threshold. Options:
 - a) 1, 3 and 4
 - b) 1, 2 and 3
 - c) 1, 2 and 4
 - d) All of the above
- 9. Which of the following algorithms is most sensitive to outliers?
 - a) K-means clustering algorithm
 - b) K-medians clustering algorithm
 - c) K-modes clustering algorithm
 - d) K-medoids clustering algorithm
- 10. How can Clustering (Unsupervised Learning) be used to improve the accuracy of Linear Regression model (Supervised Learning):
 - i) Creating different models for different cluster groups.
 - ii) Creating an input feature for cluster ids as an ordinal variable.
 - iii) Creating an input feature for cluster centroids as a continuous variable.
 - iv) Creating an input feature for cluster size as a continuous variable. Options:
 - a) 1 only
 - b) 2 only
 - c) 3 and 4
 - d) All of the above
- 11. What could be the possible reason(s) for producing two different dendrograms using agglomerative clustering algorithms for the same dataset?
 - a) Proximity function used
 - b) of data points used
 - c) of variables used
 - d) All of the above

Q12 to Q14 are subjective answers type questions, Answers them in their own words briefly

- 12. Is K sensitive to outliers?
- 13. Why is K means better?
- 14. Is K means a deterministic algorithm?