

# Day-16 Quiz-DataScience-Training

Welcome to the Python Programming Quiz! This quiz tests your knowledge of daily learnings. Please read the instructions carefully before starting the quiz.

## Instructions and Rules

- **Time Limit:** You have 20 minutes to complete the quiz.
- **Number of Questions:** The quiz consists of 20 multiple-choice questions.
- **Scoring:** Each correct answer is worth 1 point. There is no negative marking for incorrect answers.
- **Single Attempt:** You are allowed only one attempt to complete the quiz.
- **Required Fields:** All questions are mandatory. You must answer each question to submit the quiz.
- **Resources:** This is a closed-book quiz. Do not use any external resources, including books, notes, or the internet.
- **Honesty:** Please answer the questions honestly and to the best of your ability. Cheating or dishonesty will result in disqualification.
- **Environment:** Ensure you are in a quiet environment where you can concentrate without interruptions.
- **Technical Issues:** In case of technical issues, please contact the quiz administrator immediately.
- **Retakes:** There are no retake opportunities for this quiz. Ensure you are prepared before starting.

**Good luck, and do your best!**

\* Indicates required question

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1. Email \*

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2. **1. Which join returns all records when there is a match in either left or right table records? \***

*Mark only one oval.*

- ☐ a) LEFT JOIN
- ☐ b) RIGHT JOIN
- ☐ c) INNER JOIN
- ☐ d) FULL OUTER JOIN

3. **2. What is a view in SQL? \***

*Mark only one oval.*

- ☐ a) A temporary table
- ☐ b) A virtual table based on the result-set of an SQL statement
- ☐ c) A physical table
- ☐ d) A table that stores images

4. **3. Which of the following is true about updating a view? \***

*Mark only one oval.*

- ☐ a) All views can be updated
- ☐ b) Views with multiple base tables can be updated
- ☐ c) Views with certain constraints can be updated
- ☐ d) Views with aggregate functions can be updated

5. **4. What is a unique index in SQL? \***

*Mark only one oval.*

- ☐ a) An index that does not allow duplicate values
- ☐ b) An index that allows duplicate values
- ☐ c) An index created on a view
- ☐ d) An index created on a stored procedure

6. **5. What is a sub-query in SQL? \***

*Mark only one oval.*

- ☐ a) A query inside another query
- ☐ b) A query that retrieves images
- ☐ c) A query that creates a table
- ☐ d) A query that modifies a table

7. **6. Which of the following is a type of sub-query? \***

*Mark only one oval.*

- ☐ a) Scalar sub-query
- ☐ b) Multi-row sub-query
- ☐ c) Correlated sub-query
- ☐ d) All of the above

8. **7. What is the purpose of the GROUP BY clause in SQL? \***

*Mark only one oval.*

- ☐ a) To group rows that have the same values into summary rows
- ☐ b) To delete duplicate rows
- ☐ c) To update multiple rows
- ☐ d) To sort rows

9. **8. What is the difference between WHERE and HAVING clause in SQL? \***

*Mark only one oval.*

- ☐ a) WHERE is used before GROUP BY, HAVING is used after GROUP BY
- ☐ b) WHERE is used for row-level filtering, HAVING is used for column-level filtering
- ☐ c) WHERE is used after GROUP BY, HAVING is used before GROUP BY
- ☐ d) WHERE is used for column-level filtering, HAVING is used for row-level filtering

10. **9. What does the LIMIT clause do in SQL? \***

*Mark only one oval.*

- ☐ a) Limits the number of columns returned by a query
- ☐ b) Limits the number of rows returned by a query
- ☐ c) Limits the size of a database
- ☐ d) Limits the size of a table

11. **10. What does the ORDER BY clause do in SQL? \***

*Mark only one oval.*

- ☐ a) Limits the result set of a query
- ☐ b) Groups the result set of a query by one or more columns
- ☐ c) Filters the result set of a query
- ☐ d) Sorts the result set of a query by one or more columns

12. **11. What does the LIKE '%pattern%' do in SQL? \***

*Mark only one oval.*

- ☐ a) Searches for an exact match to the pattern
- ☐ b) Searches for rows that contain the pattern
- ☐ c) Searches for rows that do not contain the pattern
- ☐ d) Searches for rows with NULL values

13. **12. What is the purpose of descriptive statistics? \***

*Mark only one oval.*

- ☐ a) To summarize and describe the main features of a dataset
- ☐ b) To infer properties about a population from a sample
- ☐ c) To create complex models
- ☐ d) To manipulate data

14. **13. Which of the following is not a measure of central tendency? \***

*Mark only one oval.*

- ☐ a) Mean
- ☐ b) Median
- ☐ c) Mode
- ☐ d) Range

15. **14. Which of the following is a measure of dispersion? \***

*Mark only one oval.*

- ☐ a) Mean
- ☐ b) Median
- ☐ c) Mode
- ☐ d) Standard Deviation



16. **15. What does positive skewness indicate about a dataset? \***

*Mark only one oval.*

- ☐ a) The data is symmetric
- ☐ b) The data has a long tail on the left side
- ☐ c) The data has a long tail on the right side
- ☐ d) The data is normally distributed

17. **16. What does kurtosis measure in a distribution? \***

*Mark only one oval.*

- ☐ a) The central tendency
- ☐ b) The asymmetry
- ☐ c) The peakedness
- ☐ d) The spread

18. **17. What does a covariance of zero indicate? \***

*Mark only one oval.*

- ☐ a) The variables are independent
- ☐ b) There is a perfect positive relationship
- ☐ c) There is a perfect negative relationship
- ☐ d) There is no linear relationship

19. **18. What is the range of the correlation coefficient? \***

*Mark only one oval.*

- ☐ a) -2 to 2
- ☐ b) 0 to 1
- ☐ c) -1 to 1
- ☐ d) -3 to 3

20. **19. Which of the following best describes correlation? \***

*Mark only one oval.*

- ☐ a) It measures the strength of the linear relationship between two variables
- ☐ b) It measures the difference between two variables
- ☐ c) It measures the average value of two variables
- ☐ d) It measures the standard deviation of two variables

21. **20. In SQL, which of the following is true about the UNION operator? \***

*Mark only one oval.*

- ☐ a) It returns only duplicate records
- ☐ b) It returns all unique records from multiple queries
- ☐ c) It requires the same number of columns in each SELECT statement
- ☐ d) Both b and c

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