← 

## 1.
**What will be the value of the following Python expression?**

**print(4+3%5)**

○ 7  1/1  ATTEMPTED

○ 2

○ 4

○ 1

## 2.
**What will be the output of the following code snippet?**

**s={1,2,3,2,4,5,5,3,2,3}**

**print(s)**

○ {1,2,2,3,3,3,4,5,5}  1/1  ATTEMPTED

◉ {1,2,3,4,5}

○ None

○ {1,5}

## 3. How can you change "Thomas" into "Michel" in the "LastName" column in the Users table?

1/1  ATTEMPTED

○ UPDATE User SET LastName = 'Thomas' INTO LastName = 'Michel'

○ MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

○ MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel'

◉ UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

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**4.**
**What will be the output of the following Python code?**

**class tester:**

   **def __init__(self, id):**

      **self.id = str(id)**

      **id="224"**

**>>>temp = tester(12)**

**>>>print(temp.id)**

◉ 12                                        1/1   [ATTEMPTED]

○ 224

○ None

○ Error

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**5. what delete do in sql ?**                        1/1   [ATTEMPTED]

○ Delete use to delete all data from table

○ Delete use to delete a column from data

◉ Delete use to delete a particular row or a group of rows

○ Delete use to delete table data as well as table

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**6. What SQL command is used to remove all rows from a table?**   1/1   ATTEMPTED

○ DELETE TABLE

○ DROP TABLE

◉ TRUNCATE TABLE

○ REMOVE TABLE

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**7. How do you define a default value for a function parameter in Python?**

1/1   ATTEMPTED

○ By using a colon `:` after the parameter name

◉ By using an equal sign `=` in the function header

○ By using square brackets `[]` around the parameter name

○ By using the `default` keyword before the parameter name

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**8. Which aggregate function is used to find the highest value in a column?**

1/1   ATTEMPTED

○ AVG()

○ MIN()

○ MAX()

○ SUM()

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### 9. Two trains for Mumbai leave Delhi at 6 am and 6.45 am and travel at 100 kmph and 136 kmph respectively. How many kilometers from Delhi will the two trains be together:   1/1   ATTEMPTED

○ 262.4 km

○ 260 km

◉ 283.33 km

○ 275 km

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### 10. What will be the output of the following SQL query? SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM employees;   ATTEMPTED

0/1

◉ It will return the "full_name" column from the "employees" table

○ It will return the first name and last name concatenated with a space in between.

○ It will return an error because the "CONCAT" function is not supported in SQL.

○ It will return the "first_name" and "last_name" columns separately.

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### 11. What is the primary purpose of the Query Editor in Power BI?   1/1   ATTEMPTED

○ Designing reports

○ Creating dashboards

◉ Cleaning and transforming data

○ Generating DAX formulas

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**12. What will be output for the following code? import pandas as pd import numpy as np s = pd.Series(np.random.randn(4)) print (s.ndim)**  1/1

○ 0

◉ 1

○ 2

○ 3

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**13. The data label associated with particular value in the Series is called its_____.**  1/1

○ Data Value

◉ Index

○ Value

○ None

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**14. Why is the =COUNTIF function in Excel used?**  1/1

○ Count the cells with single specified criteria

○ Counts blank cells in a range

○ Counts cells with numbers in a range

○ Returns values based on a TRUE or FALSE condition

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**15. What is the output of the following code? import numpy as np a = np. arange (10) print (a [2:5])**    1/1    ATTEMPTED

◉ [2, 3, 4]

○ [5, 6, 7]

○ [0, 1, 2]

○ [2, 4, 6]

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**16. All pandas data structures are _ _ _ mutable but not always _ _ _ _ _ _ _mutable.**    1/1    ATTEMPTED

○ size, value

◉ value, size

○ semantic, size

○ None of the mentioned

**17. What is the value of 5Â² – 3Â³ + 4âÌ?**   0/1

○ 254

◉ 111

○ 259

○ 335

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**18. In Microsoft Excel cells, function must start with _ _ _ _ _ _ _ _**   1/1

○ $

◉ =

○ ' '

○ F

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**19. What will be the minimum number of arguments required to pass in the pandas series?**   0/1

○ 2

○ 3

○ 4

◉ None of the above mentioned

**20.** _ _ _ _ _ _ _ _ _function in MS Excel worksheet represents the total number(s) of entries in the cell(s).   1/1

○ SUM

○ AVG

◉ COUNT

○ TOTAL

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**21. What is TRUE about NOT NULL Constraint?**   1/1

○ In columns that are subject to the NOT NULL constraint, duplicate values are not allowed.

◉ When a table's column is declared as NOT NULL, no record in the table can have an empty value for that column.

○ By applying the NOT NULL constraint, we will always ensure that the column contains a unique value and won't allow nulls.

○ The value will first be checked for certain conditions before inserting it into the column when a NOT NULL constraint applies to a column in the table.

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**22. What built-in list method would you use to remove items from a list?**   1/1

○ .delete() method

○ pop(my_list)

○ del(my_list)

◉ .pop() method

**23. Suppose you have a DataFrame "df" with a column named "Marks" that contains numerical values. You want to normalize the values in the "Marks" column such that they range between 0 and 1. Which of the following code snippets correctly performs the normalization?**    1/1   ATTEMPTED

○ df['Marks'] = (df['Marks'] – df['Marks'].mean()) / (df['Marks'].max() – df['Marks'].min())

○ df['Marks'] = (df['Marks'] – df['Marks'].mean()) / df['Marks'].std()

◉ df['Marks'] = (df['Marks'] – df['Marks'].min()) / (df['Marks'].max() – df['Marks'].min())

○ df['Marks'] = (df['Marks'] – df['Marks'].min()) / df['Marks'].std()

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**24. Which one is not a function in ms excel?**    1/1   ATTEMPTED

○ PROPER

○ AVERAGE

○ COUNT

◉ CLEAR

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**25. What is the keyword shortcut to insert a new sheet in the current workbook in MS Excel?**    1/1   ATTEMPTED

○ Shift + F9

○ Shift + F10

○ Shift + F12

○ Shift + F11

**26. Which of the following is a way to connect to a data source in Power BI?**

0/1   ATTEMPTED

○ Using a web browser

○ Using a command-line interface

○ Using an API

◉ All of the above

**27. What is the purpose of the Power BI API?**

0/1   ATTEMPTED

○ To integrate your application's data into Power BI and create datasets that power dashboards in real-time.

○ To analyze and visualize data

◉ To create and share reports and dashboards

○ To create and manage data models

**28. Which of the following is a common approach to solving a classification problem with imbalanced classes?**

1/1   ATTEMPTED

○ Resampling the data

○ Using a different evaluation metric

○ Adjusting the class weights

○ All of the above

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**29. What is the purpose of the Power BI service?**  1/1  ATTEMPTED

○ To create and manage data models

○ To import and transform data from various sources

○ To analyze and visualize data

◉ To share reports and dashboards with other users

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**30. Which of the following is a data visualization feature in Power BI?**  ATTEMPTED

1/1

◉ Charts

○ Word processing

○ Video editing

○ Animation

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**31. Find the invalid variable among the following:**  1/1  ATTEMPTED

◉ 1st_string

○ my_string_1

○ _

○ foo

**32. _ _ _ _ _ _ _ _ is the scenario when the model fails to decipher the underlying trend in the input data.**  0/1  ATTEMPTED

○ Overfitting

○ Underfitting

◉ Both A and B

○ None of the above

**33. Arrange the following statistical measures from simplest to most complex. a.Mode b. Mean c. Median d. Standard Deviation**  0/1  ATTEMPTED

○ A,b,c,d

◉ b,c,a,d

○ d,c,b,a

○ a,c,b,d

**34. Which of the following diagrams would be useful in depicting the median value in the data?**  1/1  ATTEMPTED

○ Bar Chart

◉ Box Plot

○ Pie Chart

○ Scatter Plot

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**35. If the sum of two consecutive integers is 45, what are the integers?** ATTEMPTED

1/1

◉ 22, 23

○ 22, 24

○ 23, 24

○ 23, 22

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**36. The _ _ _ _ _ _ _ _ function returns its argument with a modified shape, whereas the _ _ _ _ _ _ _ _ method modifies the array itself.** 1/1 ATTEMPTED

◉ reshape, resize

○ resize, reshape

○ reshape2, resize

○ all of the mentioned

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**37. What does the term "precision" refer to in a classification context?** ATTEMPTED

0/1

○ The ratio of true positives to the total number of positive predictions

◉ The ratio of true positives to the sum of true positives and false negatives

○ The ratio of true positives to the sum of true positives and false positives

○ The ratio of true positives to the total number of actual positives in the dataset

## 38. How can you change "Thomas" into "Michel" in the "LastName" column in the Users table? 1/1 ATTEMPTED

○ UPDATE Users SET LastName = 'Thomas' INTO LastName = 'Michel'

○ MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

○ MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel'

◉ UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas

## 39. What is the purpose of one-hot encoding in machine learning? 1/1 ATTEMPTED

○ To encode numerical values as binary

○ To impute missing values

◉ To convert categorical variables into a binary matrix

○ To standardize the data

## 40.
## What will be the output of the following Python code?

i = 1

while True:

    if i%3 == 0:

```
    break
print(i)

i+= 1
```

- ○ 1 2 3

- ○ error

- ◉ 1 2

- ○ none of the mentioned

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## 41. Which of the following object you get after reading CSV file?   1/1

- ◉ DataFrame

- ○ Character Vector

- ○ Panel

- ○ All of the mentioned

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## 42. Which distance metric is commonly used in K-Means clustering

- ○ Euclidean distance

- ○ Manhattan distance

- ○ Jaccard distance

- ◉ All of the above can be used, depending on the data.

**43. In Python, what is the purpose of the // operator?**   1/1   ATTEMPTED

○ Exponentiation

◉ Integer division

○ Modulus

○ Bitwise AND

**44.**

**Consider the code snippet:**

```
class Person:
  def __init__(self, name, age):
    self.name = name
    self.age = age
person1 = Person("Alice", 25)
person2 = Person("Bob", 30)
```

**What is the value of person1.age?**

1/1   ATTEMPTED

◉ 25

○ 30

○ "Alice"

○ "Bob"

**45. The product of 6 and 9 is equal to the difference between a number and 7. What is the number?**   1/1   ATTEMPTED

○ 48

◉ 61

○ 55

○ 42

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**46.**

**What will be the output of the following code?**

**def func(x, y, z):**

   **return x + y * z**

**result = func(2, 3, 4)**
**print(result)**

1/1   ATTEMPTED

○ 20

◉ 14

○ 26

○ 18

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**47. What is the result of the following SQL subquery: SELECT name FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'Sales');**

1/1   ATTEMPTED

◉ It returns the names of all employees in the Sales department.

○ It returns the names of all employees in the Sales department. b) It returns an error because subqueries cannot be used in the WHERE clause

○ It returns an error because the subquery can return multiple values.

○ It returns the names of all employees in all departments.

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**48. What does the following SQL statement return? SELECT * FROM Employees WHERE EmployeeName LIKE 'a%'** 1/1 <span>ATTEMPTED</span>

○ It records in the Employees table where the value in the EmployeeName column doesn't have an "a".

◉ It records in the Employees table where the value in the EmployeeName column starts with "a".

○ It records in the Employees table where the value in the EmployeeName column has an "a".

○ It records in the Employees table where the value in the EmployeeName column ends with "a".

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**49. Which statement is used to select a database?** 1/1 <span>ATTEMPTED</span>

◉ use

○ create

○ drop

○ schema

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**50. In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:** 1/1 <span>ATTEMPTED</span>

○ 75 cu. m

- ( ● ) 750 cu. m

- ( ○ ) 7500 cu.m

- ( ○ ) 75000 cu. M