Pysoft Corporate Training Center, Pune

Assignment-9 (Pandas)

1. Define Pandas

2. What Are The Different Types Of Data Structures In Pandas?

3. Explain Series and DataFrame In Pandas

4. How Can You Create An Empty Dataframe In Pandas?

5. What Are The Most Important Features Of The Pandas Library?

6. How Will You Explain Reindexing In Pandas?

7. Explain Categorical Data In pandas

8. What are the different ways of creating DataFrame in pandas? Explain with examples.

9. Create a DataFrame using List

10. Create a DataFrame using Numpy Functions

11. Create a DataFrame using Numpy Dictionary

12. How To Create A Copy Of The Series In Pandas?

13. How Will You Add An Index, Row, Or Column To A Dataframe In Pandas?

14. What Method Will You Use To Rename The Index Or Columns Of Pandas Dataframe?

15. How Can You Iterate Over Dataframe In Pandas?

16. How to create a list from DataFrame

17. How Can A Dataframe Be Converted To An Excel File?

18. What is Groupby Function In Pandas?

19. What is mapFunction In Pandas?

20. How will you add a column to a pandas DataFrame?

21. How will you add a column at specific index to a pandas DataFrame?

22. How to Delete Indices, Rows or Columns From a Pandas Data Frame?

23. How to get the items not common to both series A and series B?

24. How to get the minimum, 25th percentile, median, 75th, and max of a numeric series?

25. How to convert a numpy array to a dataframe of given shape?

26. How can we sort the DataFrame?

27. Write a Pandas program to replace all the NaN values with mean in a column of a data frame

28. Write a Pandas program to create and display a DataFrame from a specified dictionary data which has the index labels

29. Write a Pandas program to get the first 3 rows of a given DataFrame.

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Assignment-9 (Pandas)

30. Write a Pandas program to select the specified columns and rows from a given dataframe

31. Write a Pandas program to count the number of rows and columns of a DataFrame

32. Write a Pandas program to select the rows where the score is missing, i.e. is NaN

33. Write a Pandas program to select rows from a given DataFrame based on values in some columns

34. Write a Pandas program to change the order of a DataFrame columns

35. Write a Pandas program to add one row in an existing DataFrame

36. Write a Pandas program to delete DataFrame row(s) based on given column value

37. Write a Pandas program to select a row of series/data frame by given integer index

38. Write a Pandas program to count the city-wise number of people from a given of data set (city, name of the person)
    ○ Sample data:

    City Number of people

    0 California 4

    1 Georgia 2

    2 Los Angeles 4

39. Write a Pandas program to replace all the NaN values with Zero's in a column of a data frame

40. Write a Pandas program to drop a list of rows from a specified DataFrame
    ○ Sample data:

    Original DataFrame

    col1 col2 col3

    0 1 4 7

    1 4 5 8

    2 3 6 9

    3 4 7 0

    4 5 8 1