# Case Study: Numpy & Pandas

Relevel by Unacademy



### **Questions for Uber Data Case Study**

- 1. Import the dataset ('My Uber Drives 2016.csv') into Jupyter Notebook.
- 2. Write a code to get the top 7 rows of the dataset.
- **3**. Write a code to get the last 5 rows of the dataset.
- 4. Get the total number of rows and columns in the dataset.
- **5**. Get the total number of elements in the dataset (Use size function).
- Write a code to get the total number of NULL values across every column in the dataset.
- Write a code to get the total number of Non-NULL values across every column in the dataset.
- 8. Write a code to get the entries having NULL values in the 'Purpose' column.
- 9. Write a code to get the entries having Non-NULL values in the 'Purpose' column using the Tilde (^) operator.
- 10. Write a code to get Non-NULL entries in the PURPOSE column.
- 11. Write a code to remove the \* in every column name using the rename function.
- 12. Write a code to remove the \* in every column name using the str.replace() function.
- 13. Write a code to remove the \* in every column name using the lambda function.
- 14. Get the entries in the data where the START location is 'Fort Pierce'.
- 15. Get the entries in the data where the STOP location is 'Fort Pierce'.







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- 16. Write a code to sort the entries in the data in descending order of the 'MILES' column.
- 17. Write a code to drop all the rows where there are NULL values in the STOP column.
- 18. Use describe() function to get the Statistical Properties about the numerical columns in the data.
- 19. Create a report in an html file using pandas profiling.
- 20. Get the unique and total number of unique values in the START and STOP column of the data.
- 21. Get the rides where we have the same START and STOP locations using a comparison operator (==).
- 22. Get the rides where we have the same START and STOP locations using a membership operator.
- 23. Use value\_counts() function to demonstrate the proportion of different categorical values in the data.
- 24. Get the number of rides where START and STOP locations are the same.
- 25. Find the favorite starting point according the the total number of MILES covered. (Use groupby function).







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- 26. Find the starting point for the ride where maximum miles are covered.
- 27. Check the data types of all the columns in the dataset.
- 28. Drop the 'unknown location' value from START and STOP column.
- 29. Find the most popular START-STOP pair according to the total number of rides covered.
- 30. Convert the datatypes of START\_DATE and END\_DATE columns to datetime.
- 31. Extract the month from START\_DATE and try to get the proportion of rides of different months.
- 32. Find the average distance covered each month.
- 33. Extract the day from the START\_DATE column.
- 34. Find the total miles covered per category per purpose.
- 35. Find the percentage of Business Miles covered and Personal mlles covered.



## **Thank You**

