

Project 5 - Data analysis on Ecommerce Purchase Dataset

1. Display Top 10 Rows of The Dataset
2. Check Last 10 Rows of The Dataset
3. Check Datatype of Each Column
4. Check null values in the dataset.
 - a. When we write `isnull()` method it creates boolean table
 - b. now you have to count that is there any missing value in the dataset or not ?
5. How many rows and columns are there in our Dataset?
6. Show all columns first then find the length of them.
7. Show all number of rows
8. Show complete information of dataset.
9. Show Highest and Lowest Purchase Prices.
 - a. Try to show all columns names so that one can easily pick the column
10. Show average purchase price
11. How many people have French 'fr' as their Language?
 - a. First show all columns then all languages
 - b. Check whether 'fr' is there or not
 - c. Compare language to 'fr'
12. Find Job Title Contains Engineer word
 - a. Show all columns then look for 'Job' match it with 'engineer'
 - b. Show all result rows having that word
 - c. Now make your search as case insensitive
 - d. Find the length of resulting data too
13. Find The Email of the person with the following IP Address: 132.207.160.22
 - a. First display all column to know on which column you have to work
 - b. Compare the column to ip address and show the results
 - c. Now display email only of that IP address

14. How many People have Mastercard as their Credit Card Provider and made a purchase above 50 dollars?

- a. First display columns
- b. Do some comparisons and show numbers

15. Find the email of the person with the following Credit Card Number: 4664825258997302

16. How many people purchase during the AM and how many people purchase during PM?

17. How many people have a credit card that expires in 2020?

- a. Show columns first
- b. Check the format of date
- c. Create a user defined function which counts how many persons having credit card expired in 2020
- d. Iterate the date using for loop and split date and count it
- e. Show total sum of count.

You can use any other method too.

18. What are the top 5 most popular email providers (e.g. Gmail.com, yahoo.com, etc...)

- a. Create either user defined function or use your own any other way for getting the result.

Note : Can add any amount of bonus elements as you can .