

Dashboard

Guided Project: Clean And Analyze Employee Exit Surveys

LEARNMISSION REFERENCE

Learn

Now that we've combined our dataframes, we're almost at a place where we can perform some kind of analysis! First, though, we'll have to clean up the `institute_service` column. This column is tricky to clean because it currently contains values in a couple different forms:

NaN	164
Less than 1 year	77
3-4	72
1-2	68
11-20	49
More than 20 years	48
5-6	36
7-10	30
5.0	30
3.0	28

To analyze the data, we'll convert these numbers into categories. We'll base our analysis on [this article](#), which makes the argument that understanding employee's needs according to career stage instead of age is more effective.

We'll use the slightly modified definitions below:

- New: Less than 3 years at a company
- Experienced: 3-6 years at a company
- Established: 7-10 years at a company
- Veteran: 11 or more years at a company

Let's categorize the values in the `institute_service` column using the definitions above.

Instructions

- First, we'll extract the years of service from each value in the `institute_service` column.
 - Use the `Series.astype()` method to change the type to `'str'`.
 - Use vectorized string methods to extract the years of service from each pattern. You can find the full list of vectorized string methods [here](#).
 - Double check that you didn't miss extracting any digits.
 - Use the `Series.astype()` method to change the type to `'float'`.
- Next, we'll map each value to one of the career stage definitions above.
 - Create a function that maps each year value to one of the career stages above.
 - Remember that you'll have to handle missing values separately. You can use the following code to check if a value is `NaN` where `val` is the name of the value: `pd.isnull(val)`.
 - Use the `Series.apply()` method to apply the function to the `institute_service` column. Assign the result to a new column named `service_cat`.
- Write a markdown paragraph explaining the changes you made and why.

Get Help

Basics.ipynb

RefreshDownloadShare

Jupyter Basics

FileEditViewInsertCellKernelHelpPython 3

CellToolbar

3.0	20
4.0	16
5.0	23
6.0	17
7.0	13
8.0	8
9.0	14
10.0	6
11.0	4
12.0	6
13.0	8
14.0	6
15.0	7
16.0	5
17.0	6
18.0	5
19.0	3
20.0	7
21.0	3
22.0	6
23.0	4
24.0	4
25.0	2
26.0	2
27.0	1
28.0	2
29.0	1
30.0	2
31.0	1
32.0	3
33.0	1
34.0	1
35.0	1
36.0	2
38.0	1
39.0	3
41.0	1
42.0	1

9. Clean the Service ColumnBack9 / 11Next