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SCALE FOR PROJECT PISCINE PYTHON DATA SCIENCE (/PROJECTS/PISCINE-PYTHON-DATA-SCIENCE) / DAY 05 (/PROJECTS/PISCINE-PYTHON-DATA-SCIENCE-DAY-05)

You should evaluate 1 student in this team



Git repository

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Introduction

The methodology of School 21 makes sense only if peer-to-peer assessments are done seriously. This document will help you to do it properly.

- Please, stay courteous, polite, respectful and constructive in all communications during this assessment. The bond of trust between community 21 and you depends on it.
- Highlight possible malfunctions of the work done by the person and take the time to discuss and debate it.
- Keep in mind that sometimes there can be differences in interpretation of the tasks and the scope of features. Please, stay open-minded to the vision of the other.

Guidelines

- Evaluate only the files that are on the GIT repository of the student or group.
- Doublecheck that the GIT repository is the one corresponding to the student or the group as long as to the project.
- Meticulously check that nothing malicious has been used

to mislead you and have you assess something except the content of the official repository.

- If you have not finished the project yet, it is compulsory to read the entire instruction before starting the review.
- Use the special flags in the scale to report an empty or non-functional solution as long as a case of cheating.

 In these cases, the assessment is completed and the final grade is 0 (or in a case of cheating is -42).

 However, except for a case of cheating, you are encouraged to continue reviewing the project to identify the problems that caused the situation in order to avoid them for the next assessment.
- You must stop giving points from the first wrong exercise even if the following exercises are correct.

Attachments

subject.pdf (https://cdn.intra.42.fr/pdf/pdf/49869/en.subject.pdf)
surname.json (/uploads/document/document/8786/surname.json)
Feed-views.log (/uploads/document/document/8787/feed-views.log)
auto.csv (/uploads/document/document/8788/auto.csv)

Preliminaries

Respect the rules

- The repository contains the work of the student (or group).
- The student is able to explain their work at any time during the assessment.
- The general rules and any rules specific to the day are respected throughout the assessment.



 \times No

Piscine Python | Data Science MODULE 05

Any hardcoded result is worth zero for the exercise.

Exercise 00 - Load and save

- Run all the cells in the notebook, they should work without errors
- Run df.count(), the result should be exactly like this:

user 1072

dtype: int64

- Run df2 = pd.read_csv("d05/data/feed-views-semicolon.log", sep=';'),

it should work without errors

- Run after that df2.head(), the result should be like this:

date_time user

0 2020-04-17 12:01:08.463179 artem

1 2020-04-17 12:01:23.743946 artem

2 2020-04-17 12:35:52.735016 artem

3 2020-04-17 12:36:21.401412 oksana

4 2020-04-17 12:36:22.023355 oksana

In all other cases, the test is failed.

✓ Yes

 \times No

Exercise 01 - Basic operations

- Run all the cells in the notebook, they should work without errors
- Run views.info(), it should include:

datetime 1076 non-null datetime64[ns]

- The result of views.count() must be:

datetime 1076

year 1076

month 1076

day 1076

hour 1076

minute 1076

second 1076

daytime 1076

dtype: int64

- The result of views.daytime.value_counts() should be this:

evening 509

afternoon 252

early evening 145

night 129

morning 36

early morning 5

Name: daytime, dtype: int64

- The result of views.loc[views.daytime == 'night'].hour.idxmax()

should be 'konstantin'

- The result of views.loc[views.daytime == 'morning'].hour.idxmin()

should be 'alexander'

- The result of views.hour.mode() should be 22
- The result of views.daytime.mode() should be evening
- The value of iqr should be 9.0

In all other cases, the test is failed.

✓ Yes

 \times No

Exercise 02 - Preprocessing

- Run all the cells in the notebook, they should work without errors
- Run df2 = pd.read_json('data/auto.json', orient='records'),

it should work without errors

- Run df2 = df2.count(), the result should be:

CarNumber 725

Refund 725

Fines 725

Make 725

Model 716

dtype: int64

- Run df2['Fines'].mean(), the result should be:

8594.586466165412

- Run df2['Refund'].mean(), the result should be:

1.5172413793103448

In all other cases, the test is failed.

✓ Yes

 \times No

Exercise 03 – Selects and aggregations

- Run all the cells in the notebook, they should work without errors
- The dimensions of df.loc[df['Model'].isin(models)]

is $593 \text{ rows} \times 4 \text{ columns?}$ where models is the list

containing 'Focus' and 'Corolla'

- Run df.groupby(['Make', 'Model']).agg('Fines').count(),

the result should be:

Make Model

Ford Focus 575

Mondeo 6

Skoda Octavia 48

Toyota Camry 16

Corolla 18

Volkswagen Golf 20

Jetta 6

Passat 22

Touareg 5

Name: Fines, dtype: int64

- The top-3 car numbers by the number of fines are:

Y7689C197RUS, 92928M178RUS, 7788KT197RUS?

- The top-1 car number by the sum of fines is X758HY197RUS?

In all other cases, the test is failed.

✓ Yes

 \times No

Exercise 04 – Enrichment and transformations

- Run all the cells in the notebook, they should work without errors
- All the floats are displayed with only 2 decimals
- The result of concat_rows.count() is

CarNumber 925

Refund 925

Fines 925

Make 925

Model 914

dtype: int64

- The result of fines.count() in the code of the student is

CarNumber 925

Refund 925

Fines 925

Make 925

Model 914

Year 925

dtype: int64

- The values of the SURNAME column in the owners do not have unwanted characters ('[', ']', '"')
- Run len(owners), the result should be 531 before deleting 20 samples and adding 3 more
- Run len(fines), the result should be 930 after enriching dataframe
- The result of the first merge should be 900 rows × 7 columns in dimensions
- The result of the second merge should be 933 rows × 7 columns in dimensions
- The result of the third merge should be 930 rows × 7 columns in dimensions
- The result of the fourth merge should be 903 rows \times 7 columns in dimensions
- The result of the pivot_table has the same structure as it is in the subject, the values can be different In all other cases, the test is failed.



 \times No

Exercise 05 – Pandas optimizations

- Run all the cells in the notebook, they should work without errors
- The result of optimized_df.info(memory_usage='deep') should be like this:
- O CarNumber 930 non-null category
- 1 Refund 930 non-null int8
- 2 Fines 930 non-null float32
- 3 Make 930 non-null category

18:35	Intra Projects Day 05 Edit				
4 Model 919 non-r	null category				
5 Year 930 non-nu					
6 strange 930 non-	-null float32				
- Run df (the initial c	one that was cleaned),	you should get the error:			
NameError: name '	df' is not defined				
In all other cases, th	ne test is failed.				
✓ Yes			×No		
Ratings					
Kaiiiigs					
Don't forget to chec	ck the flag correspondi	ing to the defense			
	✓ Ok		★ Outstanding project		
Empty work	■ No author file	nvalid compilation	₽ Norme	🖷 Cheat	🛣 Crash
	♦ Leaks		O Forbidden function		
Conclusi					
Conclusi	on				
Leave a comment o	n this evaluation				
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