

BikeShare

Data analysis project

Installation

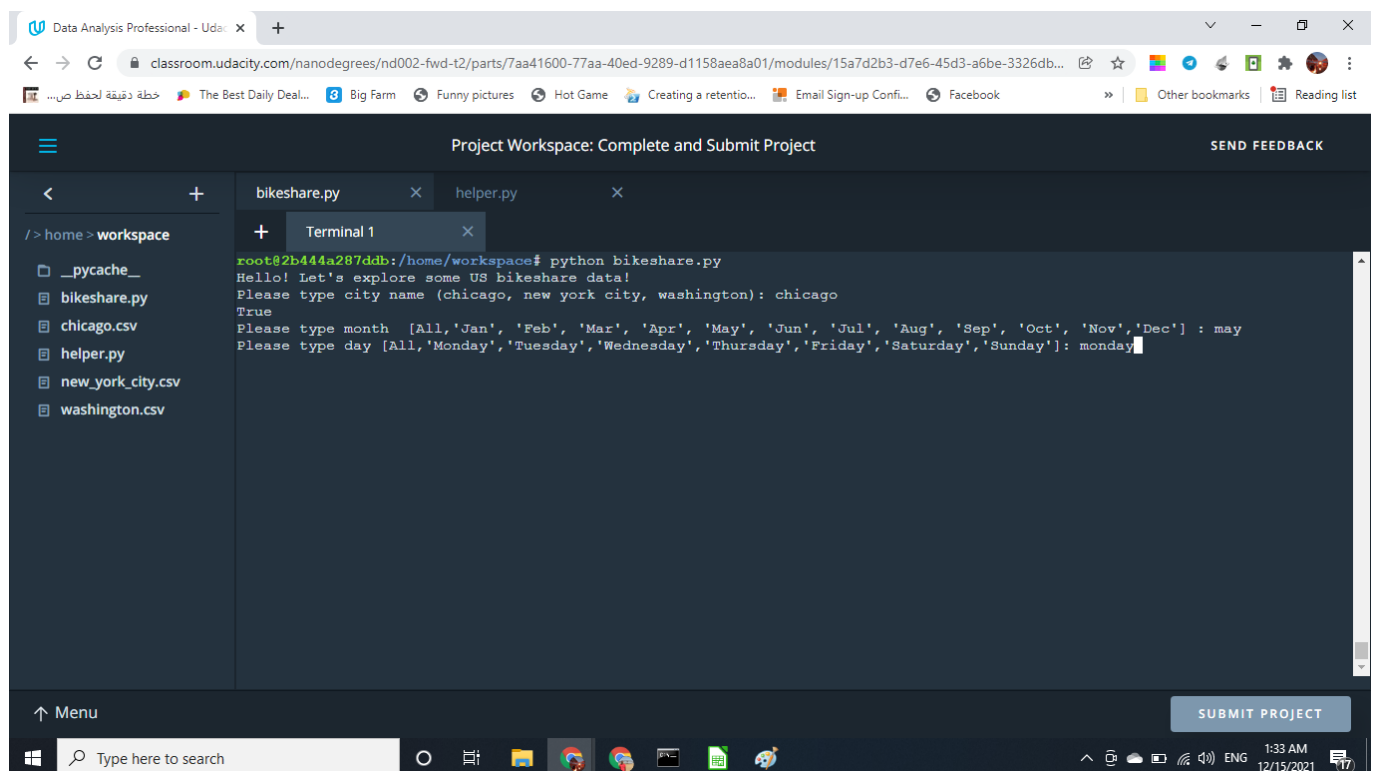
required packages

- import time
- import pandas as pd
- import numpy as np

Requirements:

User Input

the user input the city, month, day



Output

the tool will show statistics about the choosen city, and filtered with month and day

Project Workspace: Complete and Submit Project

Terminal 1

```

Calculating The Most Frequent Times of Travel...

The most common month is 5
The most common day is Monday
The most common hour is 17

This took 0.005468606948852539 seconds.
-----
Calculating The Most Popular Stations and Trip...

most commonly used start station is Streeter Dr & Grand Ave
most commonly used end station is Streeter Dr & Grand Ave
Most frequent start and end stations are Lake Shore Dr & Monroe St and Streeter Dr & Grand Ave

This took 0.3210582733154297 seconds.
-----
Calculating Trip Duration...
  
```

helper (1).py bikeshare (1).py Show all

Type here to search

2:08 AM 12/15/2021

Output Dictionary

User can choose to extract the output dictionary.

Project Workspace: Complete and Submit Project

Terminal 1

```

Earliest year of birth is 1906
Earliest year of birth is 2001
Common year of birth is 1989

This took 0.016761302947998047 seconds.
-----
Press y if you'd like to see all output as dictionary: y
{'common month': 5, 'common day': 'Monday', 'common hour': 17, 'common start_station': 'Streeter Dr & Grand Ave', 'common end_station': 'Streeter Dr & Grand Ave', 'common start_and_end_st': 'Lake Shore Dr & Monroe St and Streeter Dr & Grand Ave', 'total_travel_time': 12697151, 'mean_travel_time': 1051.0886589403974, 'User Types': {'Subscriber': 8962, 'Customer': 3118}, 'Gender': {'Male': 6717, 'Female': 2246}, 'Earliest year of birth': 1906, 'most recent year of birth': 2001, 'comon year of birth': 1989}
Do you want to view the data, press y : y
  
```

index	Unnamed: 0	Start Time	End Time	...	Birth Year	hour	month	day_of_week
0	43	915409 2017-05-22 05:49:43	2017-05-22 05:51:15	...	1967.0	5	5	Monday
1	54	702079 2017-05-01 08:35:17	2017-05-01 08:49:02	...	1983.0	8	5	Monday
2	89	763995 2017-05-08 17:29:05	2017-05-08 17:39:32	...	1975.0	17	5	Monday
3	92	760491 2017-05-08 12:00:14	2017-05-08 12:07:23	...	1963.0	12	5	Monday
4	98	919854 2017-05-22 11:44:34	2017-05-22 12:08:13	...	NaN	11	5	Monday

helper (1).py bikeshare (1).py Show all

Type here to search

2:08 AM 12/15/2021

View data

User can view data in pages or 5 recors.

Project Workspace: Complete and Submit Project

Terminal 1

```

1 54 702079 2017-05-01 08:35:17 2017-05-01 08:49:02 ... 1983.0 8 5 Monday
2 89 763995 2017-05-08 17:29:05 2017-05-08 17:39:32 ... 1975.0 17 5 Monday
3 92 760491 2017-05-08 12:00:14 2017-05-08 12:07:23 ... 1963.0 12 5 Monday
4 98 919854 2017-05-22 11:44:34 2017-05-22 12:08:13 ... NaN 11 5 Monday

[5 rows x 13 columns]
Do you want to view the data, press y, else press n: y
index Unnamed: 0 Start Time End Time ... Birth Year hour month day_of_week
5 108 918044 2017-05-22 08:50:17 2017-05-22 09:01:09 ... 1987.0 8 5 Monday
6 199 835329 2017-05-15 07:40:24 2017-05-15 07:53:34 ... 1968.0 7 5 Monday
7 211 702303 2017-05-01 08:46:47 2017-05-01 08:50:49 ... 1967.0 8 5 Monday
8 225 918533 2017-05-22 09:25:42 2017-05-22 09:29:15 ... 1969.0 9 5 Monday
9 246 1015409 2017-05-29 21:40:46 2017-05-29 21:50:49 ... 1991.0 21 5 Monday

[5 rows x 13 columns]
Do you want to view the data, press y, else press n: y
index Unnamed: 0 Start Time End Time ... Birth Year hour month day_of_week
10 267 1000454 2017-05-29 09:45:38 2017-05-29 10:03:07 ... NaN 9 5 Monday
11 327 927351 2017-05-22 18:24:48 2017-05-22 18:38:41 ... NaN 18 5 Monday
12 328 701234 2017-05-01 07:45:10 2017-05-01 08:07:28 ... 1986.0 7 5 Monday
13 339 760944 2017-05-08 13:05:35 2017-05-08 13:22:47 ... 1949.0 13 5 Monday
14 343 758858 2017-05-08 08:36:03 2017-05-08 08:50:25 ... 1982.0 8 5 Monday

[5 rows x 13 columns]
Do you want to view the data, press y, else press n:

```

Continue or close message

Program will print message for user to ask them, if they need to restart the filtration or close the program.

Project Workspace: Complete and Submit Project

Terminal 1

```

21 559 1010718 2017-05-29 17:00:02 2017-05-29 20:10:14 ... NaN 17 5 Monday
22 587 1005500 2017-05-29 13:56:14 2017-05-29 14:18:52 ... 1983.0 13 5 Monday
23 627 923852 2017-05-22 16:30:13 2017-05-22 16:32:23 ... 1997.0 16 5 Monday
24 632 1013304 2017-05-29 18:56:40 2017-05-29 19:02:06 ... 1987.0 18 5 Monday

[5 rows x 13 columns]
Do you want to view more data, press y : y
index Unnamed: 0 Start Time End Time ... Birth Year hour month day_of_week
25 640 701044 2017-05-01 07:29:15 2017-05-01 07:33:52 ... 1988.0 7 5 Monday
26 652 703283 2017-05-01 11:33:33 2017-05-01 11:42:50 ... 1952.0 11 5 Monday
27 728 702065 2017-05-01 08:34:28 2017-05-01 08:42:15 ... 1980.0 8 5 Monday
28 742 1013405 2017-05-29 19:00:58 2017-05-29 19:13:09 ... 1978.0 19 5 Monday
29 752 842907 2017-05-15 16:53:27 2017-05-15 17:05:29 ... 1989.0 16 5 Monday

[5 rows x 13 columns]
Do you want to view more data, press y : n

Would you like to restart? Enter yes or no.
no
root@2b444a287ddb:/home/workspace#

```