

ISSUES FACED ON COGNIVIZ:

1 – Using multi select dropdown and choosing multiple values to create a visual

Required filter 1

Name

select region

Type

Multi Select Dropdown

Column

Region


Operation


Default Value

☐ Pypuff

1

```
select distinct("Region") from ks_debtor_ageing_each_customer_main
```





```
class MainClass:
    def barplot(**kwargs):
        conn = kwargs['engine'].connect()
        if kwargs['filter_value'][0] and kwargs['filter_value_nr'][0]:
            query = '''select distinct("Customer Name"), round(avg(cast
("Amount" as float))) as average_amount from
ks_debtor_ageing_each_customer_main where "Region"='{f1}' and
"Customer Type"='{f2}' GROUP BY "Customer Name"''' .format(f1=kwargs
['filter_value'][0],f2 = kwargs['filter_value_nr'][0])
            df = pd.read_sql(query,conn)
            conn.close()
        elif kwargs['filter_value'][0]:
            query = '''select distinct("Customer Name"), avg(cast("Amount" as
float)) as average_amount from ks_debtor_ageing_each_customer_main
where "Region" IN '({f1})' group by "Customer Name" order by
average_amount DESC''' .format(f1=kwargs['filter_value'][0])
            df = pd.read_sql(query,conn)
            conn.close()
        elif kwargs['filter_value'][1]:
            query = '''select distinct("Customer Name"), avg(cast("Amount" as
float)) as average_amount from ks_debtor_ageing_each_customer_main
where "Transaction Type"='{f1}' group by "Customer Name" order by
average_amount DESC''' .format(f1=kwargs['filter_value'][1])
            df = pd.read_sql(query,conn)
```

QUERY RUNNING ON DB TESTER

Database Connector
CSV Uploads

```
1 select distinct("Customer Name"), avg(cast("Amount" as float)) as
average_amount from ks_debtor_ageing_each_customer_main WHERE "Region" IN
('CHRO','LRO','KRO') group by "Customer Name" order by average_amount DESC
```

RUN

Customer Name	average_amount
EASTERN TRADELINK	331037.2475

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NOT RUNNING ON COMPONENTS

Error Log

```
Traceback (most recent call last):
  File "/usr/local/lib/python3.7/site-packages/sqlalchemy/
engine/base.py", line 1278, in _execute_context
    cursor, statement, parameters, context
  File "/usr/local/lib/python3.7/site-packages/sqlalchemy/
engine/default.py", line 593, in do_execute
    cursor.execute(statement, parameters)
psycopg2.ProgrammingError: syntax error at or near "(['"
LINE 1: ...ebtor_ageing_each_customer_main where "Region"
IN '(['MRO', ...

^

The above exception was the direct cause of the following
exception:

Traceback (most recent call last):
  File "/usr/src/app/text360/views.py", line 501, in metho
d_execute_pypuff
    child_object=child_object,
  File "/usr/src/app/text360/pypuff/3a8a0c1_15941859980734
51/main.py", line 16, in barplot
    df = pd.read_sql(query,conn)
  File "/usr/local/lib/python3.7/site-packages/pandas/io/s
ql.py", line 397, in read_sql
    chunksize=chunksize)
  File "/usr/local/lib/python3.7/site-packages/pandas/io/s
```

Correlation Code Documentation

This code is prepared for finding correlation for time series data based on weekly and monthly basis.

Python finalscript.py typeofcorr number1 number2 dataset.csv

Dataset should be in csv format

Typeofcorr can be weekly, monthly

Number1 and number2 are week/month numbers for which you want to find correlation.

E.g., *python finalscript.py weekly 40 46 ptcddata.csv*

For weekly:

For finding correlation between different weeks you can pass values of weeks between 2-52 e.g. first week number can be 4 and second week number can be 5 etc.

For Monthly:

For finding correlation between different months you can pass values of weeks between 2-12 e.g. first month number can be 3 and second month number can be 5 etc.

If your dataset *doesn't have headers* then you can add the headers then you can skip adding headers in the command line arguments although it is an optional argument you can add or skip if you require.

```
Command Prompt
Microsoft Windows [Version 10.0.18363.959]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Kartik>cd C:\Users\Kartik\Desktop\cognitensor_correlation

C:\Users\Kartik\Desktop\cognitensor_correlation>python finalscript.py weekly 3 5 ptcddata.csv
[
      Mon      Tue      Wed      Thrus      Fri      Sat      Sun
Past_Day
Mon      0.451887  0.351468  0.916667  0.305129  0.866667  0.152564  0.301258
Tue      0.663866  0.831933  0.410045  0.680907  0.217575  0.374499  0.747899
Wed      0.882353  0.915966  0.560674  0.766020  0.267785  0.527703  0.882353
Thrus    0.899160  0.932773  0.543938  0.783043  0.251048  0.646861  0.848739
Fri      0.351468  0.435150  0.883333  0.355983  0.816667  0.220371  0.267785
Sat      0.292890  0.510465  0.766667  0.423790  0.833333  0.000000  0.309626
Sun      0.663866  0.831933  0.410045  0.680907  0.217575  0.374499  0.747899]

C:\Users\Kartik\Desktop\cognitensor_correlation>_
```

If your *dataset have date and price column* headers then you can add your date column and price column name as the optional arguments like shown below –

```
CA Command Prompt

C:\Users\Kartik\Desktop\cognitensor_correlation>python finalscript.py weekly 3 5 --datecol date --pricecol price ptcdata.csv
[
    Mon    Tue    Wed    Thrus    Fri    Sat    Sun
Past_Day
Mon      0.451887  0.351468  0.916667  0.305129  0.866667  0.152564  0.301258
Tue      0.663866  0.831933  0.410045  0.680907  0.217575  0.374499  0.747899
Wed      0.882353  0.915966  0.560674  0.766020  0.267785  0.527703  0.882353
Thrus     0.899160  0.932773  0.543938  0.783043  0.251048  0.646861  0.848739
Fri       0.351468  0.435150  0.883333  0.355983  0.816667  0.220371  0.267785
Sat       0.292890  0.510465  0.766667  0.423790  0.833333  0.000000  0.309626
Sun       0.663866  0.831933  0.410045  0.680907  0.217575  0.374499  0.747899]

C:\Users\Kartik\Desktop\cognitensor_correlation>
```

Your final results will be saved as a dataframe into an excel file in the same working directory with the name of “typeofcorr_corr_results.xlsx” along with a heatmap figure for the same will be saved in the working directory. Example shown below -

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
	Past_Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	1	0.93277	0.22269	0.76602	0.76602	0.45961	0.66388	0.80007	0.56904	0.27615	0.4916	0.58403	-0.3431	0.71495	0.68487	0.67647	0.72689	0.76602	0.76602	0.69328	0.76602	0.78304	0.80007	0.76602	0.73197	0.68091	0.68091	0.76602	0.80007	0.76891	0.81709
2	2	-0.03782	0.88235	0.17023	0.20427	0.54473	0.45961	0.22981	0.159	0.66946	0.61765	0.44118	-0.07531	0.23832	0.35714	0.32353	0.37395	0.17023	0.17023	0.48319	0.38301	0.4511	0.27236	0.38301	0.28087	0.44259	0.44259	0.38301	0.30641	0.39076	0.34045
3	3	0.80007	0.20427	1	0.94828	0.7931	0.89655	0.87931	0.76282	0.47464	0.78304	0.9022	0.01695	0.91379	0.86816	0.9022	0.91922	1	1	0.9022	0.96552	0.93103	0.98276	0.96552	0.98276	0.93103	0.93103	0.96552	0.93103	0.93625	0.94828
4	4	0.62605	0.39916	0.83411	0.78304	0.56175	0.71495	0.71495	0.70294	0.38494	0.73109	0.78151	0.30126	0.71495	0.7479	0.88235	0.91597	0.83411	0.83411	0.89916	0.80007	0.76602	0.81709	0.80007	0.81709	0.749	0.749	0.80007	0.76602	0.84874	0.78304
5	5	0.68091	0.3745	0.94828	0.86207	0.91379	0.96552	0.77586	0.74587	0.5594	0.86816	0.95327	0.06781	0.84483	0.78304	0.85113	0.86816	0.94828	0.94828	0.9022	0.96552	0.91379	0.93103	0.96552	0.98276	0.98276	0.96552	0.84483	0.86816	0.87931	
6	6	0.66388	0.39152	0.91379	0.82759	0.87931	0.98276	0.7931	0.77977	0.57635	0.83411	0.91922	0.05085	0.77586	0.71495	0.80007	0.83411	0.91379	0.91379	0.88518	0.94828	0.89655	0.94828	0.96552	0.96552	0.96552	0.94828	0.81034	0.83411	0.84483	
7	7	0.76602	0.27236	0.93103	0.98276	0.72414	0.82759	0.94828	0.69502	0.50855	0.71495	0.80007	-0.08476	0.87931	0.9022	0.83411	0.88518	0.93103	0.93103	0.86816	0.93103	0.96552	0.94828	0.93103	0.91379	0.86207	0.86207	0.93103	1	0.97029	0.98276
8	8	0.11716	0.0251	0.40684	0.33903	0.30513	0.47464	0.37293	0.81667	0.38333	0.35147	0.3682	0.68333	0.32208	0.26778	0.3682	0.41841	0.40684	0.40684	0.45189	0.47464	0.45769	0.44074	0.47464	0.44074	0.45769	0.45769	0.47464	0.37293	0.38494	0.42379
9	9	0.05021	0.56067	0.32208	0.35598	0.32208	0.50855	0.54245	0.6	0.73333	0.55231	0.43515	0.23333	0.32208	0.46862	0.5021	0.58578	0.32208	0.32208	0.63599	0.47464	0.54245	0.42379	0.47464	0.37293	0.44074	0.44074	0.47464	0.45769	0.56904	0.4916
10	10	-0.06695	0.32636	0.35598	0.27123	0.5255	0.4916	0.18647	0.63333	0.51667	0.56067	0.49373	0.71667	0.35598	0.32636	0.41005	0.42678	0.35598	0.35598	0.49373	0.47464	0.45769	0.40684	0.47464	0.42379	0.5255	0.5255	0.47464	0.32208	0.37657	0.38989
11	11	0.55042	0.39916	0.9022	0.78304	0.93625	0.93625	0.71495	0.71967	0.71967	0.96639	1	0.08368	0.9022	0.86555	0.93277	0.91597	0.9022	0.9022	0.93277	0.93625	0.88518	0.91922	0.93625	0.91922	0.97029	0.97029	0.93625	0.80007	0.88235	0.86816
12	12	0.21429	0.63445	0.45961	0.40854	0.35748	0.51068	0.42557	0.53557	0.45189	0.63025	0.56303	0.41841	0.35748	0.46218	0.64706	0.69748	0.45961	0.45961	0.73109	0.51068	0.49366	0.47663	0.51068	0.49366	0.49366	0.49366	0.51068	0.42557	0.57983	0.45961
13	13	0.37395	0.52521	0.57877	0.62984	0.3745	0.45961	0.56175	0.45189	0.35147	0.59664	0.56003	0.30126	0.5277	0.66387	0.71429	0.76471	0.57877	0.57877	0.7479	0.57877	0.61282	0.59579	0.57877	0.56175	0.51068	0.51068	0.57877	0.64686	0.73109	0.62984
14	14	0.76602	0.27236	0.93103	0.98276	0.72414	0.82759	0.94828	0.69502	0.50855	0.71495	0.80007	-0.08476	0.87931	0.9022	0.83411	0.88518	0.93103	0.93103	0.86816	0.93103	0.96552	0.94828	0.93103	0.91379	0.86207	0.86207	0.93103	1	0.97029	0.98276
15	15	0.78304	0.31492	0.96552	0.96552	0.7931	0.89655	0.87931	0.71197	0.40684	0.73197	0.85113	0.01695	0.81034	0.78304	0.80007	0.85113	0.96552	0.96552	0.86816	0.94828	0.93103	0.93103	0.94828	0.98276	0.91379	0.91379	0.94828	0.93103	0.9022	0.91379
16	16	0	0.68091	0.2931	0.36207	0.46552	0.31034	0.15517	0.0339	0.20342	0.49366	0.42557	0.28818	0.2069	0.32343	0.34045	0.3745	0.2931	0.2931	0.44259	0.32759	0.34483	0.25862	0.32759	0.36207	0.36207	0.36207	0.32759	0.32759	0.3745	0.27586
17	17	-0.11916	0.54473	0.22414	0.27586	0.46552	0.2069	0.05172	-0.10171	0.25427	0.49366	0.40854	0.20342	0.25862	0.3745	0.34045	0.32343	0.22414	0.22414	0.35748	0.24138	0.25862	0.2069	0.24138	0.25862	0.2931	0.2931	0.24138	0.25862	0.32343	0.22414
18	18	0.38458	0.55064	0.6728	0.6728	0.88527	0.77904	0.5046	0.39167	0.42649	0.71671	0.75167	0.03482	0.54887	0.52442	0.51568	0.55064	0.6728	0.6728	0.64679	0.73477	0.71707	0.63739	0.73477	0.77018	0.79674	0.79674	0.73477	0.63739	0.61183	0.61969
19	19	0.59579	0.4511	0.81034	0.89655	0.81034	0.81034	0.7931	0.50855	0.44074	0.68091	0.749	-0.08476	0.68966	0.71495	0.62984	0.69793	0.81034	0.81034	0.749	0.84483	0.87931	0.7931	0.84483	0.86207	0.82759	0.82759	0.84483	0.87931	0.81709	0.82759
20	20	0.56175	0.42557	0.7931	0.87931	0.7931	0.7931	0.84483	0.5594	0.64416	0.749	0.76602	-0.15256	0.81034	0.86816	0.73197	0.78304	0.7931	0.7931	0.80007	0.86207	0.93103	0.84483	0.86207	0.81034	0.82759	0.82759	0.86207	0.93103	0.9022	0.91379
21	21	0.47663	0.54473	0.75862	0.81034	0.89655	0.84483	0.72414	0.50855	0.61026	0.78304	0.80007	-0.08476	0.7069	0.73197	0.64686	0.69793	0.75862	0.75862	0.76602	0.84483	0.87931	0.77586	0.84483	0.82759	0.86207	0.86207	0.84483	0.82759	0.80007	0.81034
22	22	0.59579	0.4511	0.81034	0.89655	0.81034	0.81034	0.7931	0.50855	0.44074	0.68091	0.749	-0.08476	0.68966	0.71495	0.62984	0.69793	0.81034	0.81034	0.749	0.84483	0.87931	0.7931	0.84483	0.86207	0.82759	0.82759	0.84483	0.87931	0.81709	0.82759
23	23	0.51068	0.11065	0.75862	0.82759	0.72414	0.62069	0.74138	0.37293	0.54245	0.66388	0.71495	-0.25427	0.87931	0.91922	0.73197	0.71495	0.75862	0.75862	0.66388	0.74138	0.7931	0.7931	0.74138	0.7069	0.7069	0.7069	0.74138	0.86207	0.83411	0.84483
24	24	0.5277	0.53621	0.82759	0.81034	0.93103	0.93103	0.77586	0.67806	0.76282	0.9022	0.9022	-0.0339	0.82759	0.83411	0.80007	0.83411	0.82759	0.82759	0.88518	0.93103	0.94828	0.87931	0.93103	0.87931	0.94828	0.94828	0.93103	0.86207	0.88518	0.89655
25	25	0.49366	0.28087	0.74138	0.7931	0.74138	0.74138	0.82759	0.5594	0.76282	0.749	0.749	-0.23732	0.86207	0.91922	0.76602	0.78304	0.74138	0.74138	0.76602	0.81034	0.87931	0.82759	0.81034	0.72414	0.77586	0.77586	0.81034	0.87931	0.88518	0.89655
26	26	0.31513	0.58403	0.59579	0.66388	0.62984	0.66388	0.71495	0.53557	0.78662	0.76471	0.68067	-0.01674	0.68091	0.81513	0.73109	0.78151	0.59579	0.59579	0.79832	0.71495	0.80007	0.69793	0.71495	0.61282	0.68091	0.68091	0.71495	0.76602	0.83193	0.78304
27	27	0.54473	0.44259	0.81034	0.84483	0.84483	0.84483	0.82759	0.62721	0.74587	0.83411	0.83411	-0.11866	0.86207	0.9022	0.80007	0.83411	0.81034	0.81034	0.85113	0.89655	0.94828	0.87931	0.89655	0.82759	0.87931	0.87931	0.89655	0.91379	0.91922	0.93103
28	28	0.54473	0.44259	0.81034	0.84483	0.84483	0.84483	0.82759	0.62721	0.74587	0.83411	0.83411	-0.11866	0.86207	0.9022	0.80007	0.83411	0.81034	0.81034	0.85113	0.89655	0.94828	0.87931	0.89655	0.82759	0.87931	0.87931	0.89655	0.91379	0.91922	0.93103
29	29	0.80007	0.20427	1	0.94828	0.7931	0.89655	0.87931	0.76282	0.47464	0.78304	0.9022	0.01695	0.91379	0.86816	0.9022	0.91922	1	1	0.9022	0.96552	0.93103	0.98276	0.96552	0.98276	0.93103	0.93103	0.96552	0.93103	0.93625	0.94828
30	30	0.56723	0.07983	0.86816	0.81709	0.76602	0.71495	0.73197	0.53557	0.58578	0.79832	0.86555	-0.08368	0.97029	0.96639	0.91597	0.86555	0.86816	0.86816	0.79832	0.81709	0.80007	0.88518	0.81709	0.80007	0.80007	0.80007	0.81709	0.83411	0.88235	0.86816

