Railway Traffic - Full

April 14, 2017

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In [18]: %matplotlib inline
         import pandas as pd
         import numpy as np
         from sklearn.cluster import AgglomerativeClustering
         import matplotlib.pyplot as plt
         import scipy.spatial.distance as ssd
         import compute_distance_matrix as cdm
In [13]: data = pd.read_excel('../maindb.xlsx', 'Sheet1')
In [14]: data.head(10)
Out [14]:
                                Station
                                                Passengerdensity
                                          Year
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                    Addison RoadAM Peak 20109
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         1
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                        AnacostiaMidday
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                       AnacostiaPM Peak 20109
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In [15]: df = data.groupby(['Station', 'Year'])['Passengerdensity'].mean().to_frame().reset_index
In [5]: di_matrix = cdm.extract_data(df)
Distance matrix computation complete.
In [6]: di_matrix
Out[6]:
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AnacostiaPM Peak	6		6
Archives-Navy MemorialAM Peak	6		6
Archives-Navy MemorialEvening	6		6
Archives-Navy MemorialLate Night Peak	6		6

Archives-Navy MemorialMidday	6	6
Archives-Navy MemorialPM Peak	5	5
Arlington CemeteryAM Peak	6	6
Arlington CemeteryEvening	6	5
Arlington CemeteryLate Night Peak	2	2
Arlington CemeteryMidday	6	6
Arlington CemeteryPM Peak	6	6
BallstonAM Peak	6	6
BallstonEvening	6	6
BallstonLate Night Peak	6	6
BallstonMidday	6	6
BallstonPM Peak	6	6
Benning RoadAM Peak	6	6
Benning RoadEvening	6	6
Benning RoadLate Night Peak	6	6
Benning RoadMidday	5	6
Benning RoadPM Peak	6	6
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West Falls ChurchAM Peak	6	6
West Falls ChurchEvening	6	6
West Falls ChurchLate Night Peak	6	6
West Falls ChurchMidday	6	6
West Falls ChurchPM Peak	6	6
	6	6
West HyattsvilleAM Peak		
West HyattsvilleEvening	6	6
West HyattsvilleLate Night Peak	6	6
West HyattsvilleMidday	5	5
West HyattsvillePM Peak	5	6
WheatonAM Peak	6	6
WheatonEvening	6	6
WheatonLate Night Peak	5	5
WheatonMidday	5	6
WheatonPM Peak	5	5
White FlintAM Peak	6	6
White FlintEvening	6	6
White FlintLate Night Peak	6	6
White FlintMidday	6	6
White FlintPM Peak	6	6
WiehleAM Peak	6	6
WiehleEvening	0	5
WiehleLate Night Peak	5	0
WiehleMidday	6	6
WiehlePM Peak	6	6
Woodley Park-ZooAM Peak	6	6
Woodley Park-ZooEvening	6	6
Woodley Park-ZooLate Night Peak	6	6
Woodley Park-ZooMidday	6	5
Woodley Park-ZooPM Peak	6	6

	WiehleMidday	WiehlePM Peak \
Addison RoadAM Peak	11	8
Addison RoadEvening	11	8
Addison RoadLate Night Peak	11	9
Addison RoadMidday	9	9
Addison RoadPM Peak	11	9
AnacostiaAM Peak	11	9
AnacostiaEvening	11	9
AnacostiaLate Night Peak	9	9
AnacostiaMidday	10	7
AnacostiaPM Peak	11	9
Archives-Navy MemorialAM Peak	10	9
Archives-Navy MemorialEvening	11	9
Archives-Navy MemorialLate Night Peak	11	9
Archives-Navy MemorialMidday	11	9
Archives-Navy MemorialPM Peak	10	9
Arlington CemeteryAM Peak	11	9
Arlington CemeteryEvening	11	9
Arlington CemeteryLate Night Peak	3	3
Arlington CemeteryMidday	11	9
Arlington CemeteryPM Peak	11	9
BallstonAM Peak	11	9
BallstonEvening	11	9
BallstonLate Night Peak	10	9
BallstonMidday	11	7
BallstonPM Peak	11	9
Benning RoadAM Peak	11	9
Benning RoadEvening	11	9
Benning RoadLate Night Peak	10	9
Benning RoadMidday	11	9
Benning RoadPM Peak	10	8
West Falls ChurchAM Peak	11	9
West Falls ChurchEvening	11	9
West Falls ChurchLate Night Peak	11	9
West Falls ChurchMidday	11	9
West Falls ChurchPM Peak	10	9
West HyattsvilleAM Peak	11	7
West HyattsvilleEvening	11	9
West HyattsvilleLate Night Peak	9	9
West HyattsvilleMidday	11	8
West HyattsvillePM Peak	9	9
WheatonAM Peak	11	9
WheatonEvening	11	8
WheatonLate Night Peak	11	8
WheatonMidday	11	9
WheatonPM Peak	11	8

White FlintAM Peak White FlintEvening White FlintLate Night Peak White FlintMidday White FlintPM Peak WiehleAM Peak WiehleEvening	11 11 10 11 11 10 6	9 9 9 8 9 6 6
WiehleLate Night Peak	6	6
WiehleMidday	0	8
WiehlePM Peak	8	0
Woodley Park-ZooAM Peak	11	9
Woodley Park-ZooEvening	11	9
Woodley Park-ZooLate Night Peak	11	9
Woodley Park-ZooMidday	11	9
Woodley Park-ZooPM Peak	11	9
	Woodlow Bark ZooAM Bool	· \
Addison RoadAM Peak	Woodley Park-ZooAM Peak	
Addison RoadEvening	47	
Addison RoadLate Night Peak	50	
Addison RoadMidday	48	
Addison RoadPM Peak	49	9
AnacostiaAM Peak	44	1
AnacostiaEvening	48	3
AnacostiaLate Night Peak	49	9
AnacostiaMidday	49	9
AnacostiaPM Peak	47	7
Archives-Navy MemorialAM Peak	48	3
Archives-Navy MemorialEvening	49	9
Archives-Navy MemorialLate Night Peak	51	1
Archives-Navy MemorialMidday	51	1
Archives-Navy MemorialPM Peak	45	5
Arlington CemeteryAM Peak	51	1
Arlington CemeteryEvening	50)
Arlington CemeteryLate Night Peak	21	1
Arlington CemeteryMidday	50)
Arlington CemeteryPM Peak	51	1
BallstonAM Peak	48	
BallstonEvening	47	
BallstonLate Night Peak	50	
BallstonMidday	50	
BallstonPM Peak	46	
Benning RoadAM Peak	51	
Benning RoadEvening	49	
Benning RoadLate Night Peak	50	
Benning RoadDM Book	48	
Benning RoadPM Peak	51	
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West Falls ChurchAM Peak West Falls ChurchEvening	49 49	
West Falls ChurchLate Night Peak	50	
West Falls ChurchMidday	50	
West Falls ChurchPM Peak	50	
West HyattsvilleAM Peak	46	
West HyattsvilleEvening	47	
West HyattsvilleLate Night Peak	51	
West HyattsvilleMidday	49	
West HyattsvillePM Peak	47	
WheatonAM Peak	49	
WheatonEvening	51	
WheatonLate Night Peak	50	
WheatonMidday	50	
WheatonPM Peak	48	
White FlintAM Peak	46	
White FlintEvening	51	
White FlintLate Night Peak	51	
White FlintMidday	49	
White FlintPM Peak	48	
WiehleAM Peak	9	
WiehleEvening	6	
WiehleLate Night Peak	6	
WiehleMidday	11	
WiehlePM Peak	9	
Woodley Park-ZooAM Peak	0	
Woodley Park-ZooEvening	50	
Woodley Park-ZooLate Night Peak	51	
Woodley Park-ZooMidday	50	
Woodley Park-ZooPM Peak	50	
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Addison RoadAM Peak	Woodley Park-ZooEvening 50	\
Addison RoadEvening	50	
Addison RoadLate Night Peak	49	
Addison RoadMidday	50	
Addison RoadPM Peak	49	
AnacostiaAM Peak	51	
AnacostiaEvening	47	
AnacostiaLate Night Peak	51	
AnacostiaMidday	51	
AnacostiaPM Peak	50	
Archives-Navy MemorialAM Peak	50	
Archives-Navy MemorialEvening	49	
Archives-Navy MemorialLate Night Peak	50	
Archives-Navy MemorialMidday	50	
Archives-Navy MemorialPM Peak	48	
Arlington CemeteryAM Peak	51	

Arlington CemeteryEvening	50
Arlington CemeteryLate Night Peak	21
Arlington CemeteryMidday	51
Arlington CemeteryPM Peak	50
BallstonAM Peak	49
BallstonEvening	50
BallstonLate Night Peak	51
BallstonMidday	51
BallstonPM Peak	50
Benning RoadAM Peak	49
Benning RoadEvening	46
Benning RoadLate Night Peak	50
Benning RoadMidday	49
Benning RoadPM Peak	50
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West Falls ChurchAM Peak	49
West Falls ChurchEvening	49
West Falls ChurchLate Night Peak	48
West Falls ChurchMidday	49
West Falls ChurchPM Peak	51
West HyattsvilleAM Peak	50
West HyattsvilleEvening	49
West HyattsvilleLate Night Peak	50
West HyattsvilleMidday	47
West HyattsvillePM Peak	50
WheatonAM Peak	50
WheatonEvening	49
WheatonLate Night Peak	48
WheatonMidday	50
WheatonPM Peak	51
White FlintAM Peak	48
White FlintEvening	50
White FlintLate Night Peak	48
White FlintMidday	48
White FlintPM Peak	51
WiehleAM Peak	10
WiehleEvening	6
WiehleLate Night Peak	6
WiehleMidday	11
WiehlePM Peak	9
Woodley Park-ZooAM Peak	50
Woodley Park-ZooEvening	0
Woodley Park-ZooLate Night Peak	51
Woodley Park-ZooMidday	50
Woodley Park-ZooPM Peak	50
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Woodley Park-ZooLate Night Peak \

Addison RoadAM Peak

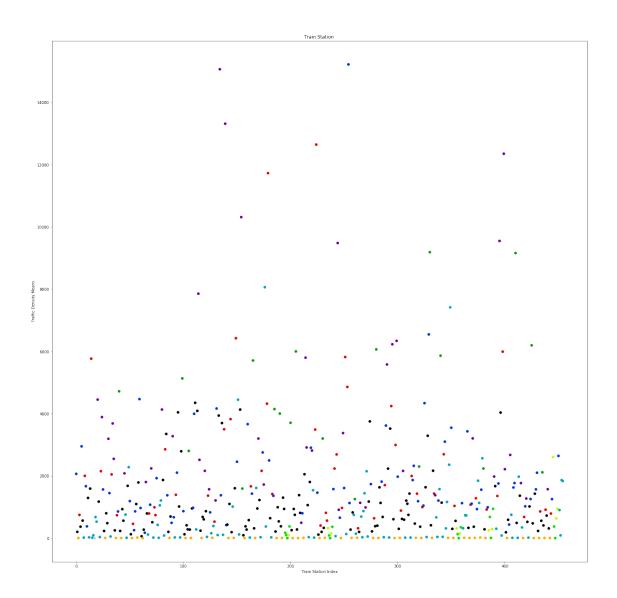
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Addison RoadLate Night Peak	51
Addison RoadMidday	50
Addison RoadPM Peak	50
AnacostiaAM Peak	49
AnacostiaEvening	50
AnacostiaLate Night Peak	51
AnacostiaMidday	50
AnacostiaPM Peak	50
Archives-Navy MemorialAM Peak	51
Archives-Navy MemorialEvening	51
Archives-Navy MemorialLate Night Peak	50
Archives-Navy MemorialMidday	51
Archives-Navy MemorialPM Peak	49
Arlington CemeteryAM Peak	51
Arlington CemeteryEvening	49
Arlington CemeteryLate Night Peak	20
Arlington CemeteryMidday	51
Arlington CemeteryPM Peak	49
BallstonAM Peak	51
BallstonEvening	50
BallstonLate Night Peak	50
BallstonMidday	51
BallstonPM Peak	50
Benning RoadAM Peak	50
Benning RoadEvening	49
Benning RoadLate Night Peak	51
Benning RoadMidday	51
Benning RoadPM Peak	51
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West Falls ChurchAM Peak	51
West Falls ChurchEvening	51
West Falls ChurchLate Night Peak	50
West Falls ChurchMidday	50
West Falls ChurchPM Peak	51
West HyattsvilleAM Peak	51
West HyattsvilleEvening	50
West HyattsvilleLate Night Peak	51
West HyattsvilleMidday	50
West HyattsvillePM Peak	51
WheatonAM Peak	50
WheatonEvening	51
WheatonLate Night Peak	49
WheatonMidday	50
WheatonPM Peak	50
White FlintAM Peak	50
White FlintEvening	51
White FlintLate Night Peak	51

White FlintMidday			
White FlintPM Peak			
WiehleAM Peak			
WiehleEvening			
WiehleLate Night Peak			
WiehleMidday			
WiehlePM Peak			
Woodley Park-ZooAM Peak			
Woodley Park-ZooEvening			
Woodley Park-ZooLate Night Peak			
Woodley Park-ZooMidday			
Woodley Park-ZooPM Peak			
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Addison RoadAM Peak	woodicy	48	`
Addison RoadEvening		49	
Addison RoadLate Night Peak		51	
Addison RoadMidday		50	
Addison RoadPM Peak		49	
AnacostiaAM Peak		49	
AnacostiaEvening		50	
AnacostiaLate Night Peak		50	
AnacostiaMidday		50	
AnacostiaPM Peak		51	
Archives-Navy MemorialAM Peak		48	
Archives-Navy MemorialEvening		49	
Archives-Navy MemorialLate Night Peak		51	
Archives-Navy MemorialMidday		51	
Archives-Navy MemorialPM Peak		49	
Arlington CemeteryAM Peak		51	
Arlington CemeteryEvening		50	
Arlington CemeteryLate Night Peak		21	
Arlington CemeteryMidday		49	
Arlington CemeteryPM Peak		49	
BallstonAM Peak		51	
BallstonEvening		50	
BallstonLate Night Peak		50	
BallstonMidday		49	
BallstonPM Peak		47	
Benning RoadAM Peak		49	
Benning RoadEvening		50	
Benning RoadLate Night Peak		51	
Benning RoadMidday		50	
Benning RoadPM Peak		51	
 West Falls ChurchAM Peak		 50	
West Falls ChurchEvening		50	
West Falls ChurchLate Night Peak		51	
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West Falls ChurchMidday	47
West Falls ChurchPM Peak	50
West HyattsvilleAM Peak	50
West HyattsvilleEvening	50
West HyattsvilleLate Night Peak	51
West HyattsvilleMidday	50
West HyattsvillePM Peak	51
WheatonAM Peak	48
WheatonEvening	50
WheatonLate Night Peak	50
WheatonMidday	50
WheatonPM Peak	50
White FlintAM Peak	50
White FlintEvening	50
White FlintLate Night Peak	51
White FlintMidday	48
White FlintPM Peak	50
WiehleAM Peak	10
WiehleEvening	6
WiehleLate Night Peak	5
WiehleMidday	11
WiehlePM Peak	9
Woodley Park-ZooAM Peak	50
Woodley Park-ZooEvening	50
Woodley Park-ZooLate Night Peak	51
Woodley Park-ZooMidday	0
Woodley Park-ZooPM Peak	47
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	Woodley Park-ZooPM Peak
Addison RoadAM Peak	48
Addison RoadEvening	50
Addison RoadLate Night Peak	50
Addison RoadMidday	51
Addison RoadPM Peak	51
AnacostiaAM Peak	51
AnacostiaEvening	50
AnacostiaLate Night Peak	51
AnacostiaMidday	50
AnacostiaPM Peak	51
Archives-Navy MemorialAM Peak	51
Archives-Navy MemorialEvening	49
Archives-Navy MemorialLate Night Peak	51
Archives-Navy MemorialMidday	51
Archives-Navy MemorialPM Peak	51
Arlington CemeteryAM Peak	51
Arlington CemeteryEvening	50
Arlington CemeteryLate Night Peak	21
Arlington CemeteryMidday	51

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Arlington CemeteryPM Peak
                                                              49
BallstonAM Peak
                                                              48
BallstonEvening
                                                              49
BallstonLate Night Peak
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BallstonMidday
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BallstonPM Peak
                                                              49
Benning RoadAM Peak
                                                              51
Benning RoadEvening
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Benning RoadLate Night Peak
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Benning RoadMidday
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Benning RoadPM Peak
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West Falls ChurchAM Peak
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West Falls ChurchEvening
                                                              49
West Falls ChurchLate Night Peak
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West Falls ChurchMidday
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West Falls ChurchPM Peak
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West HyattsvilleAM Peak
                                                              50
West HyattsvilleEvening
                                                              48
West HyattsvilleLate Night Peak
                                                              50
West HyattsvilleMidday
                                                              51
West HyattsvillePM Peak
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WheatonAM Peak
                                                              48
WheatonEvening
                                                              51
WheatonLate Night Peak
                                                              51
WheatonMidday
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WheatonPM Peak
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                                                              47
White FlintAM Peak
                                                              47
White FlintEvening
White FlintLate Night Peak
                                                              49
White FlintMidday
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White FlintPM Peak
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WiehleAM Peak
                                                              10
WiehleEvening
                                                               6
WiehleLate Night Peak
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WiehleMidday
                                                              11
WiehlePM Peak
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Woodley Park-ZooAM Peak
                                                              50
Woodley Park-ZooEvening
                                                              50
Woodley Park-ZooLate Night Peak
                                                              51
Woodley Park-ZooMidday
                                                              47
Woodley Park-ZooPM Peak
                                                               0
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[455 rows x 455 columns]



Cluster 1	Ballston	PM Peak		
Cluster 2	AnacostiaAM Peak			
Cluster 3	Archives-Navy MemorialLate Night Peak			
Cluster 4	Crystal CityPM Peak			
Cluster 5	GreensboroEvening			
Cluster 6	McLeanAM Peak			
Cluster 7	Benning RoadLate Nigl	ht Peak		
Cluster 8	Anacosti			
Cluster 9		J		
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Cluster 0	AnacostiaEvening	Archives-Navy MemorialEvening		
Cluster 1	BethesdaAM Peak	BethesdaPM Peak		
Cluster 2	AnacostiaPM Peak	Archives-Navy MemorialAM Peak		
Cluster 3	Arlington CemeteryAM Peak	Arlington CemeteryEvening		
Cluster 4	Dunn LoringAM Peak	Forest GlenAM Peak		
Cluster 5	GreensboroLate Night Peak	GreensboroPM Peak		
Cluster 6	McLeanMidday	Spring HillAM Peak		
Cluster 7	Braddock RoadLate Night Peak	Branch AvenueLate Night Peak		
Cluster 8	Archives-Navy MemorialPM Peak	BallstonMidday		
Cluster 9				
	3	4	(
Cluster 0	Archives-Navy MemorialMidday	${\tt BallstonEvening}$		
Cluster 1	Braddock RoadAM Peak	BrooklandAM Peak		
Cluster 2	Benning RoadAM Peak	${\tt BethesdaEvening}$		
Cluster 3	Arlington CemeteryMidday	Arlington CemeteryPM Peak		
Cluster 4	Franconia-SpringfieldAM Peak	GlenmontAM Peak		
Cluster 5	${\tt McLeanEvening}$	McLeanLate Night Peak		
Cluster 6	Spring HillMidday	Tysons CornerAM Peak		
Cluster 7	Capitol HeightsLate Night Peak	Capitol SouthLate Night Peak		
Cluster 8	${\tt BethesdaMidday}$	Braddock RoadMidday		
Cluster 9				
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	5	6 \		
Cluster 0	Benning RoadEvening	Benning RoadMidday		
Cluster 1	ClarendonAM Peak	Cleveland ParkAM Peak		
Cluster 2	Braddock RoadPM Peak	Capitol HeightsAM Peak		
Cluster 3	BallstonLate Night Peak	BethesdaLate Night Peak		
Cluster 4	GreenbeltAM Peak	GrosvenorAM Peak		
Cluster 5	McLeanPM Peak	Spring HillEvening		
Cluster 6	Tysons CornerMidday	WiehleAM Peak		
Cluster 7		ess HeightsLate Night Peak		
Cluster 8	Capitol HeightsMidday	${\tt ClarendonMidday}$		
Cluster 9				
	7	0 \		
Cluster 0	7 Benning RoadPM Peak	8 \ Braddock RoadEvening		

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Cluster 1
                                                Court HouseAM Peak
              Columbia HeightsAM Peak
Cluster 2
               Capitol HeightsPM Peak
                                              Capitol SouthAM Peak
Cluster 3
                     BrooklandEvening
                                          BrooklandLate Night Peak
Cluster 4
                    HuntingtonAM Peak
                                          Largo Town CenterAM Peak
Cluster 5
           Spring HillLate Night Peak
                                                Spring HillPM Peak
                         WiehleMidday
                                                     WiehlePM Peak
Cluster 6
Cluster 7
              DeanwoodLate Night Peak
                                       Dunn LoringLate Night Peak
Cluster 8
                 Cleveland ParkMidday
                                             Cleveland ParkPM Peak
Cluster 9
                                         9
                                                                   \
Cluster 0
                       Branch AvenueEvening
Cluster 1
                       Dupont CirclePM Peak
Cluster 2
                       Capitol SouthPM Peak
                           BrooklandPM Peak
Cluster 3
Cluster 4
                        Morgan Blvd.AM Peak
Cluster 5
                       Tysons CornerEvening
Cluster 6
Cluster 7 East Falls ChurchLate Night Peak
Cluster 8
                     Columbia HeightsMidday
                                                     . . .
Cluster 9
                                                     . . .
                     109
                                         110
Cluster O ViennaPM Peak WaterfrontEvening WaterfrontMidday
Cluster 1
Cluster 2
Cluster 3
Cluster 4
Cluster 5
Cluster 6
Cluster 7
Cluster 8
Cluster 9
                                 112
                                                           113 \
Cluster 0
           West Falls ChurchEvening West Falls ChurchMidday
Cluster 1
Cluster 2
Cluster 3
Cluster 4
Cluster 5
Cluster 6
Cluster 7
Cluster 8
Cluster 9
                                114
                                                         115
                                                                          116 \
Cluster O West HyattsvilleEvening West HyattsvillePM Peak WheatonEvening
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Cluster 1
         Cluster 2
         Cluster 3
         Cluster 4
         Cluster 5
         Cluster 6
         Cluster 7
         Cluster 8
         Cluster 9
                               117
                                                    118
         Cluster O WheatonPM Peak White FlintEvening
         Cluster 1
         Cluster 2
         Cluster 3
         Cluster 4
         Cluster 5
         Cluster 6
         Cluster 7
         Cluster 8
         Cluster 9
         [10 rows x 119 columns]
In [82]: st_clusters.to_excel('../Station Clusters.xlsx', 'Sheet1')
In []:
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