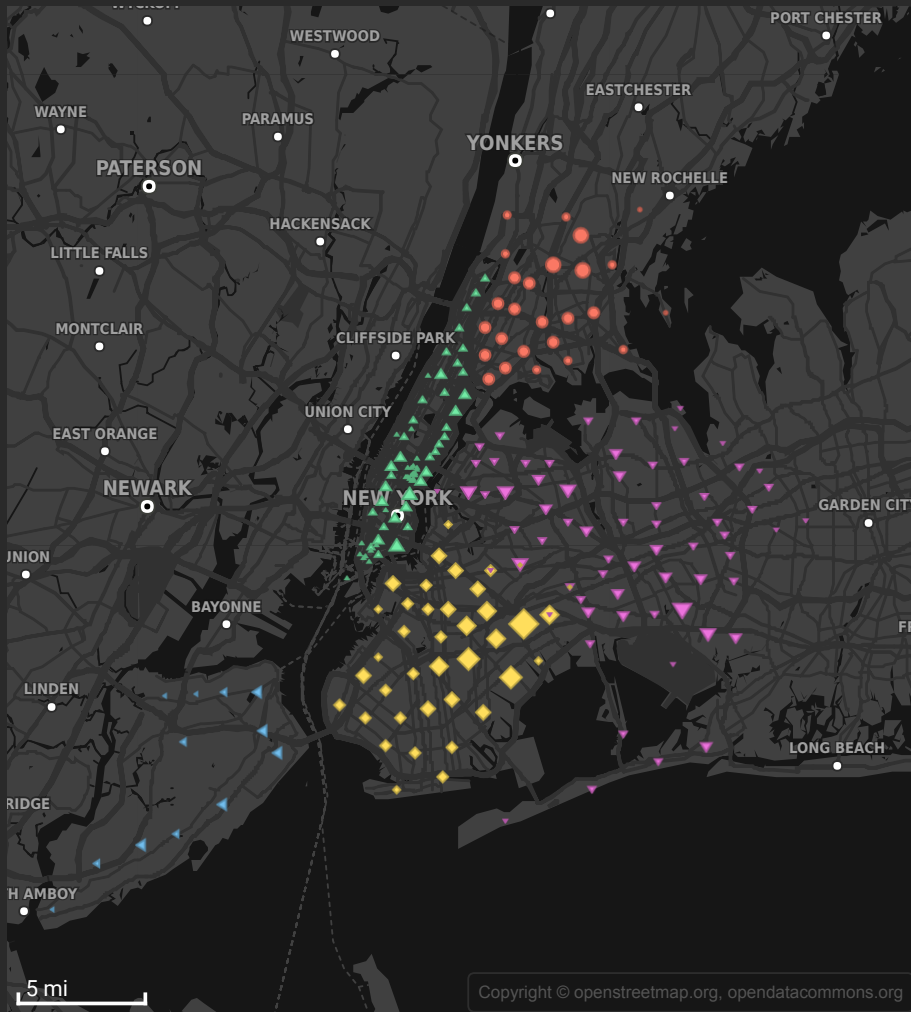
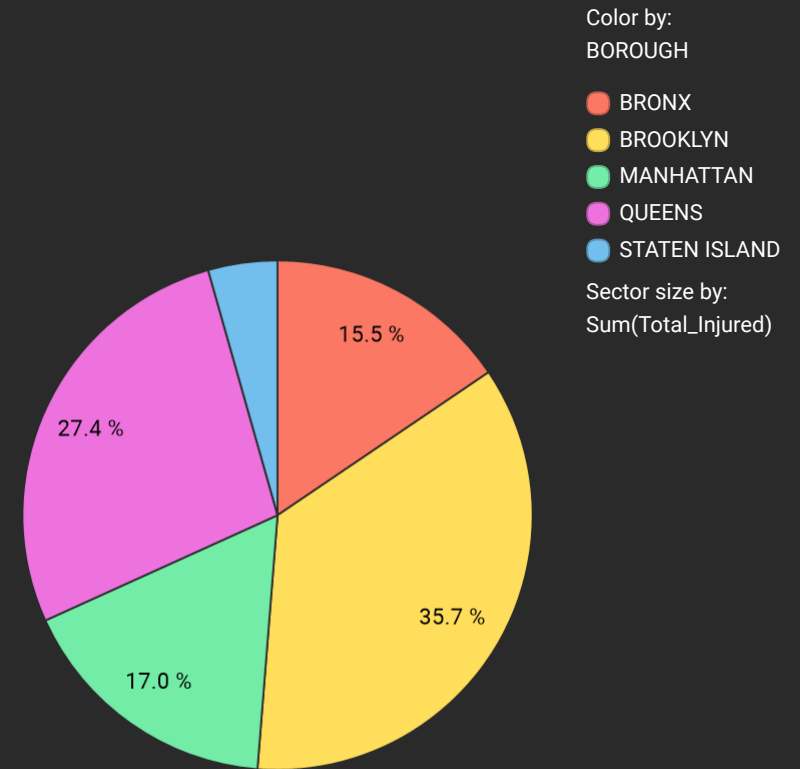


Accident Prone Zipcodes

NewYork City Map

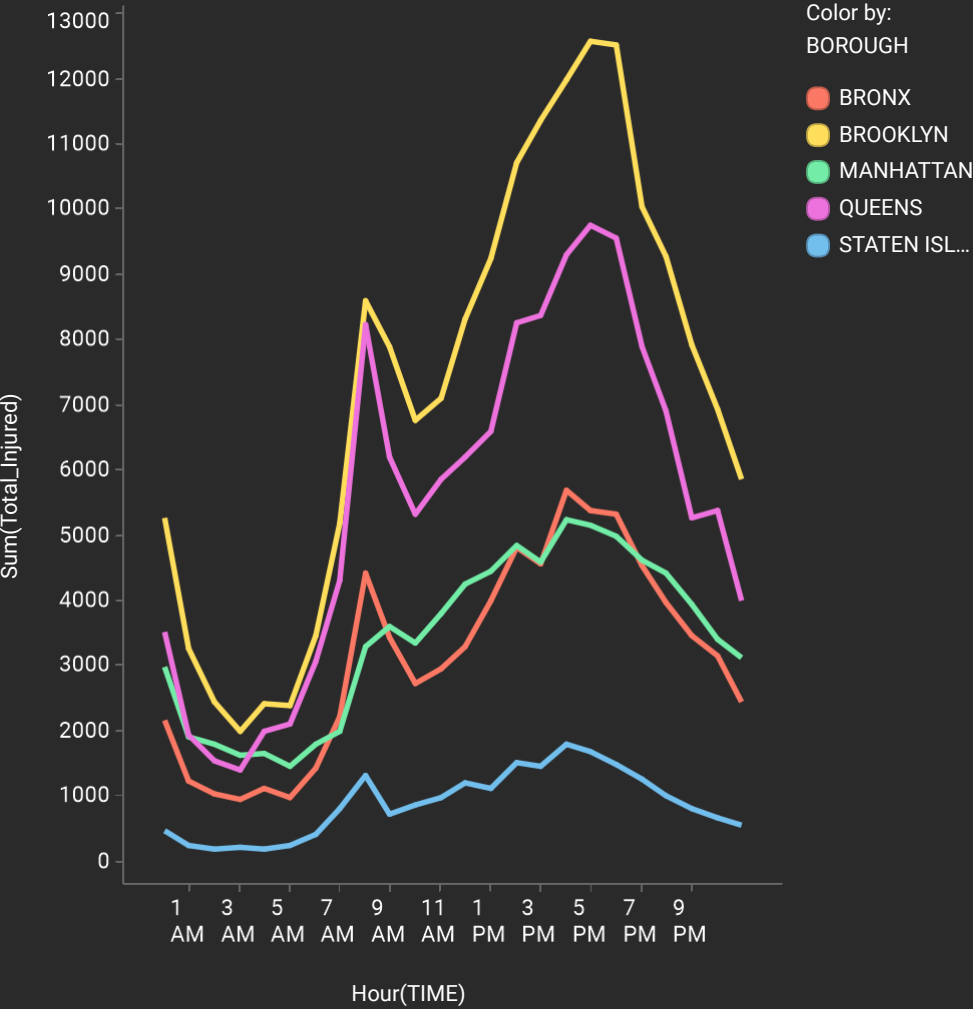


Total Injured

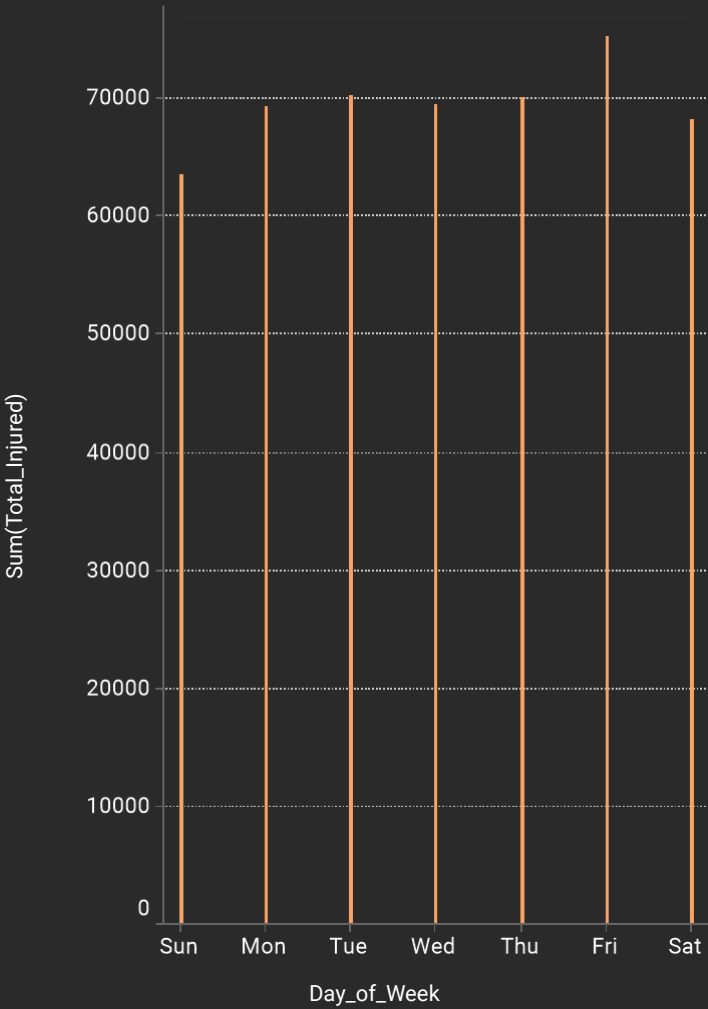


Day and Time

Total_Injured – TIME



Total_Injured per Day_of_Week



Contributing Factors

Most Contributing Factors

Driver Inattention/Distracted	Unspecified	Following Too Closely		Fatigued/Drowsy			Traffic Control Disregarded			Physical Disability							
		Unspecified		Driver Inattention/Distracted		Backing Unsafely	Turning Improperly		Alcohol Involvement	Prescription Medication							
		Other Vehicular	Failure to Yield Right-of-Way	Traffic Control	Traffic Control	Unsafe Lane	Other Vehicular	View Obstruction	Following Traffic	Pavement							
Failure to Yield Right-of-Way	Failure to Yield Right-of-Way	Passenger Distraction	Lost Consciousness	Traffic Control	Fatigued/Drowsy	Driver Inexperience	Glare	Driver Inattention	Brake Sensitivity	Physiological	Alcohol Involvement						
		Driver Inexperience	Unspecified	Pedestrian	Aggressive	Aggressive	Unsafe	Reaction	Driver	Pre	Pav	Unsafe	Traffic	Driver			
				Alcohol Involvement	Ot	D	P	D	V	T	T	Fa	Br	Tu	Dr	Al	Fa
Driver Inattention/Distracted	Driver Inattention/Distracted	Passenger Distraction	Other Vehicular	Driver Inattention	Outside	Fa	F	Dr	O								
		Failure to Yield Right-of-Way	Pavement Slippery	View Obscured	Fatigued	Tu	Fe	D	O								
		Backing Unsafely	Pedestrian/Bicyclist	Physiological	P	L	Fe										
		Passing or Lane Usage	Unsafe Speed	Outside	Dr	F	Pa										

Color by:
(Row Count)

● Max (86514)

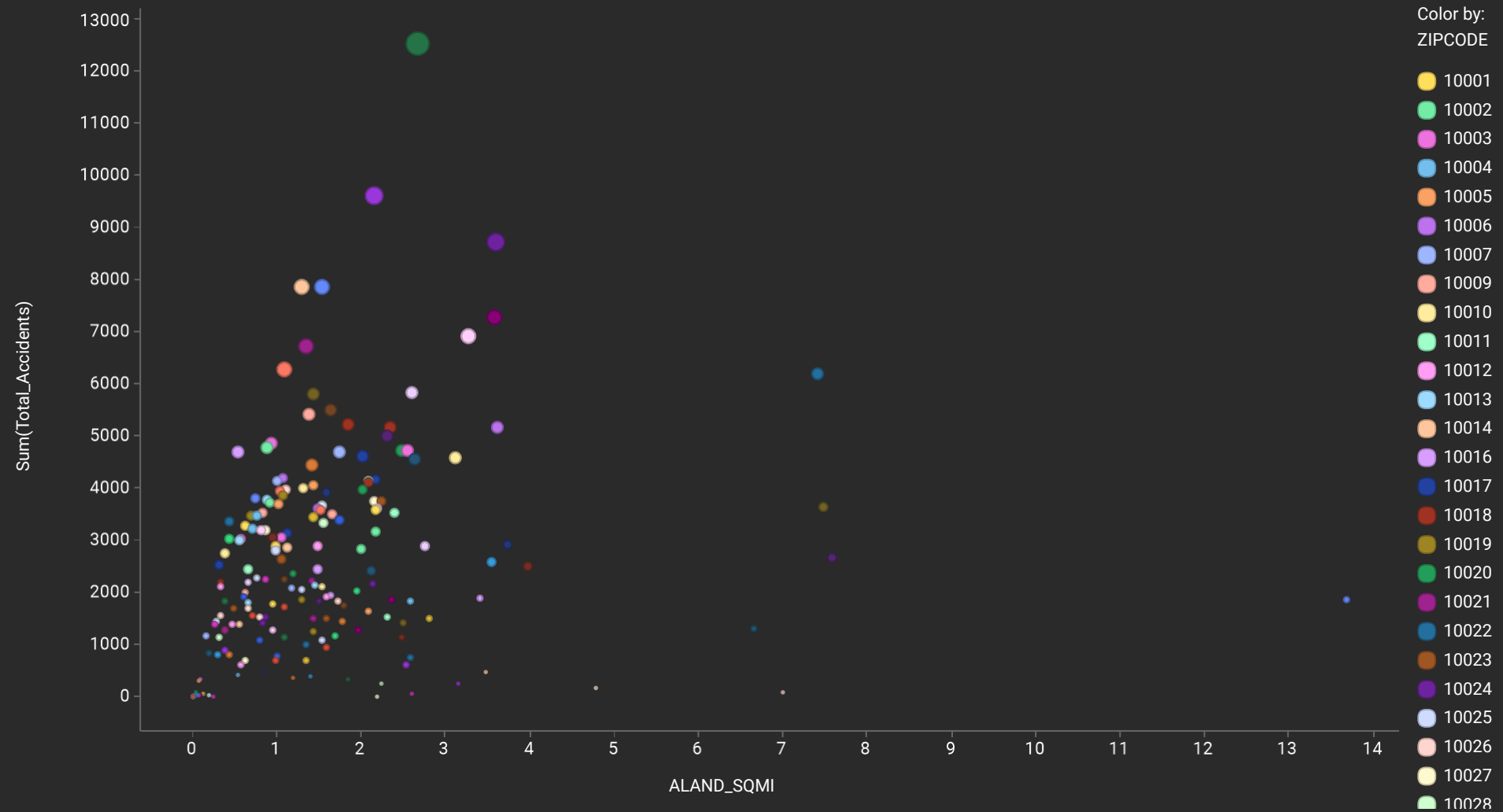
● Min (1)

Size by:
Sum(Total_Injured)

Hierarchy:
Contributing_Factors

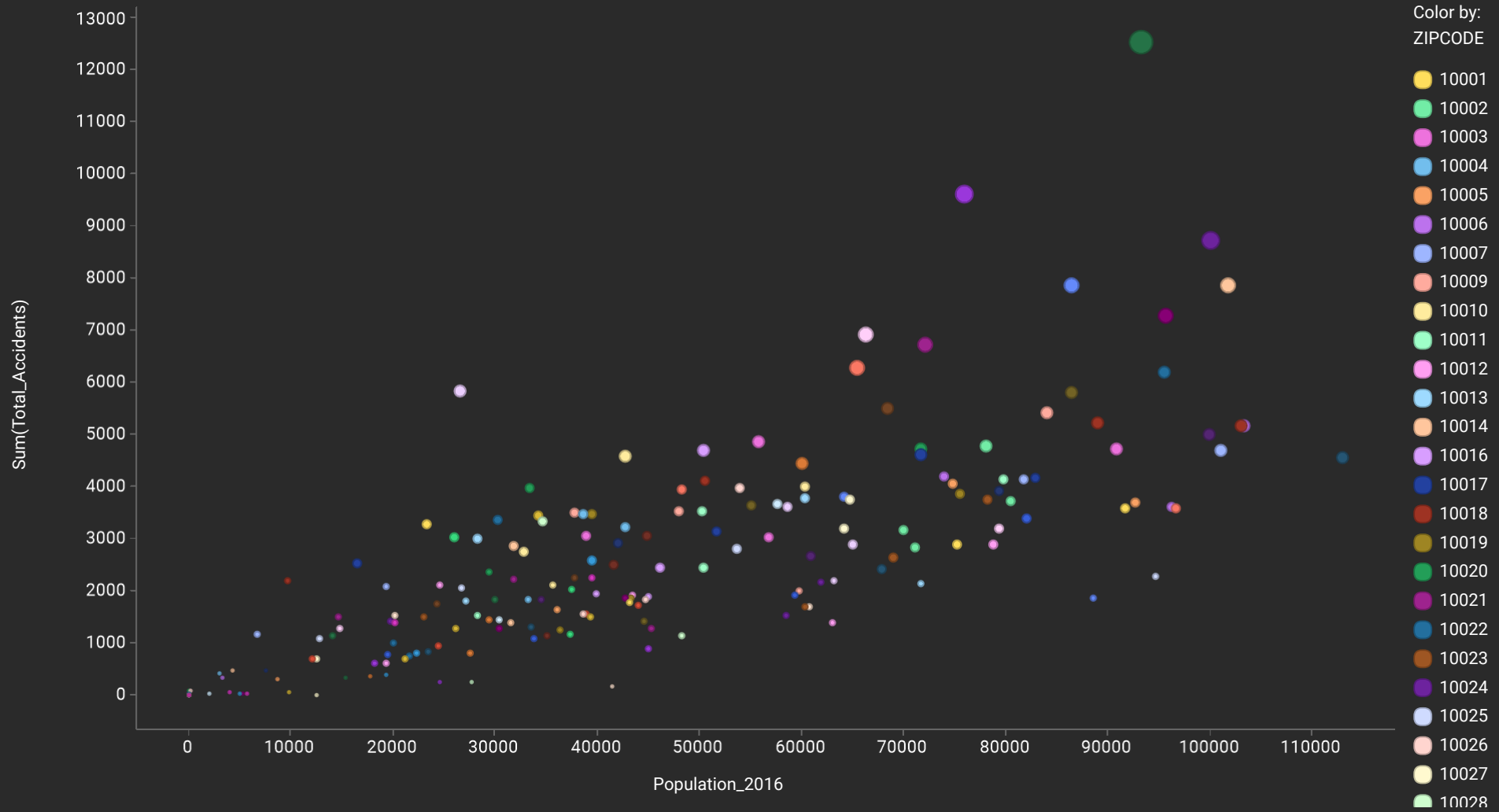
Area-Accident Correlation

Sum(Total_Accidents) vs. ALAND_SQMI

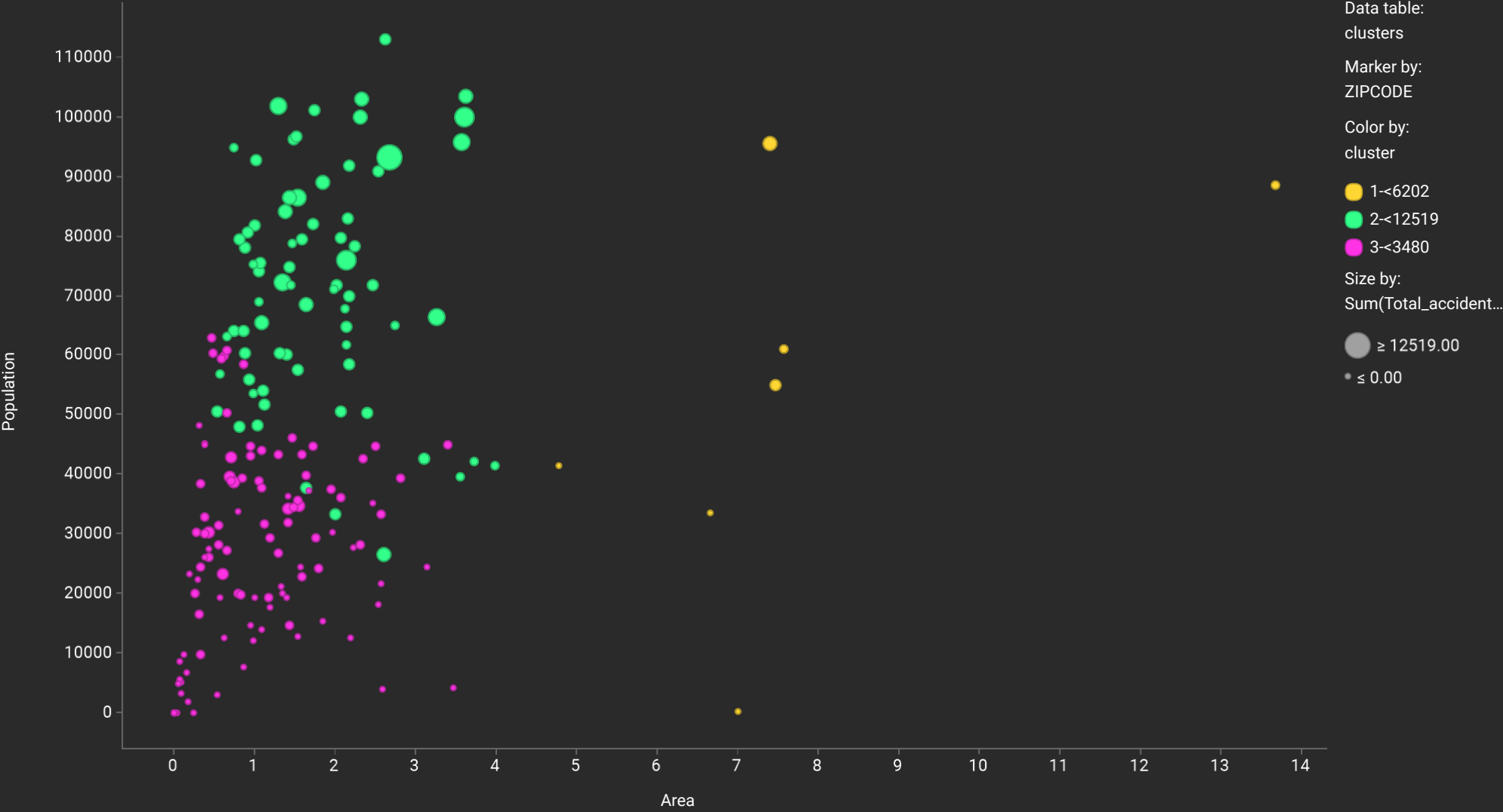


Population-Accidents Correlation

Sum(Total_Accidents) vs. Population_2016

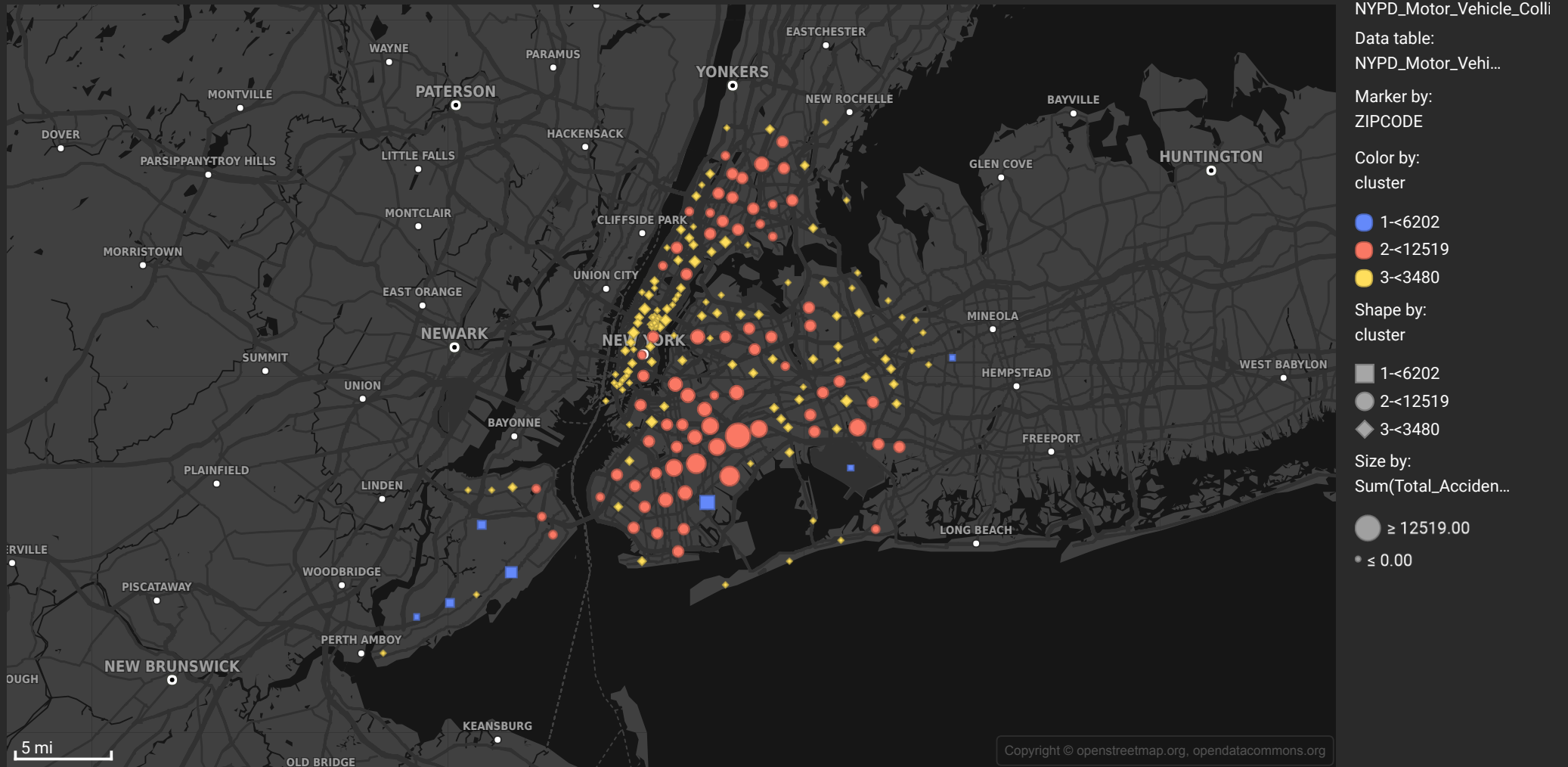


Zipcode Clusters



Zipcode clusters Mapped

Zipcodes Similar in terms of Area,Population and Total Accidents are mapped



Selected Detail Data for analysis

6 columns from NYPD_Motor_Vehicle_Collisions

Year	Month	cluster	Population_2...	ALAND_SQMI	Total_Accide...
2012	Jul	3-<3480	25987	0.44	0
2012	Jul	2-<12519	79730	2.07	0
2012	Jul	2-<12519	69965	2.18	0
2012	Jul	2-<12519	48289	1.03	0
2012	Jul	1-<6202	95546	7.41	0
2012	Jul	2-<12519	71159	1.99	0
2012	Jul	2-<12519	72159	1.35	0
2012	Jul	3-<3480	6740	0.16	2
2012	Jul	3-<3480	16533	0.32	2
2012	Jul	2-<12519	101006	1.75	2
2012	Jul	3-<3480	30262	0.43	0
2012	Jul	3-<3480	27144	0.66	0
2012	Jul	2-<12519	66279	3.27	0
2012	Jul	3-<3480	25987	0.44	0
2012	Jul	3-<3480	37461	1.95	0
2012	Jul	3-<3480	3928	2.60	0
2012	Jul	2-<12519	78096	0.88	0
2012	Jul	3-<3480	44617	2.50	2
2012	Jul	2-<12519	79411	0.81	0
2012	Jul	3-<3480	28247	2.31	0
2012	Jul	3-<3480	28247	2.31	0
2012	Jul	3-<3480	30262	0.43	0
2012	Jul	3-<3480	28211	0.55	0
2012	Jul	2-<12519	64109	0.74	0
2012	Jul	2-<12519	82028	1.74	2
2012	Jul	2-<12519	55816	0.94	0
2012	Jul	3-<3480	37461	1.95	0
2012	Jul	2-<12519	82914	2.16	0
2012	Jul	1-<6202	95546	7.41	0

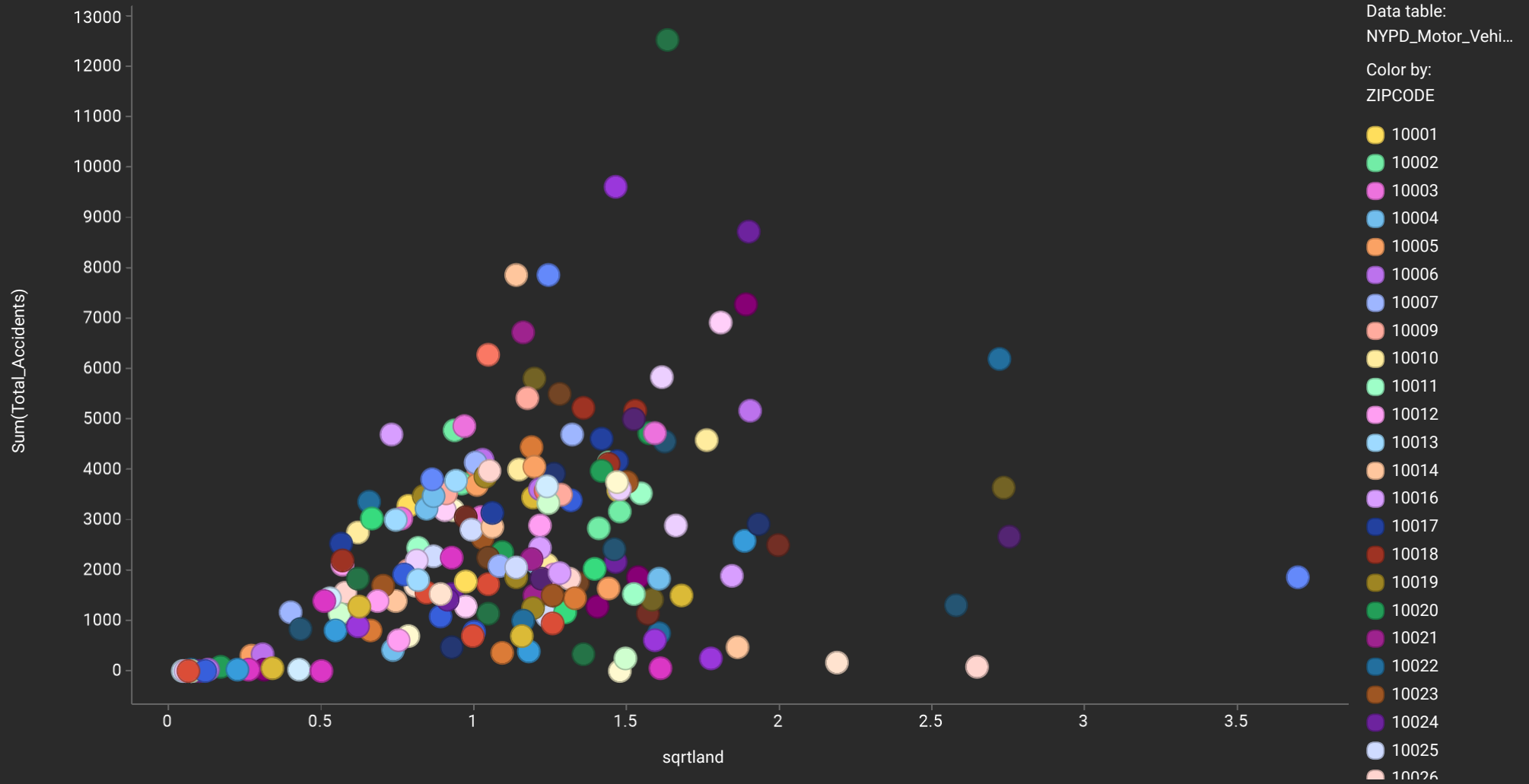
Predicting Number of Accidents - ML Model Performance

ML Models Performance in Predicting Number of Accidents



SQRT(Area)-Accidents

When we squeeze land area by applying sqrt , relation becomes more linear with .43 correlation



Traffic - Accident Correlation

