5.2 Exercises: CONSOLIDATED -heat maps, spatial charts, and contour charts

Name: Prashant Raghuwanshi

Date: 02/14/2022

Course: DSC640-T301 Data Presentation & Visualization (2223-1)

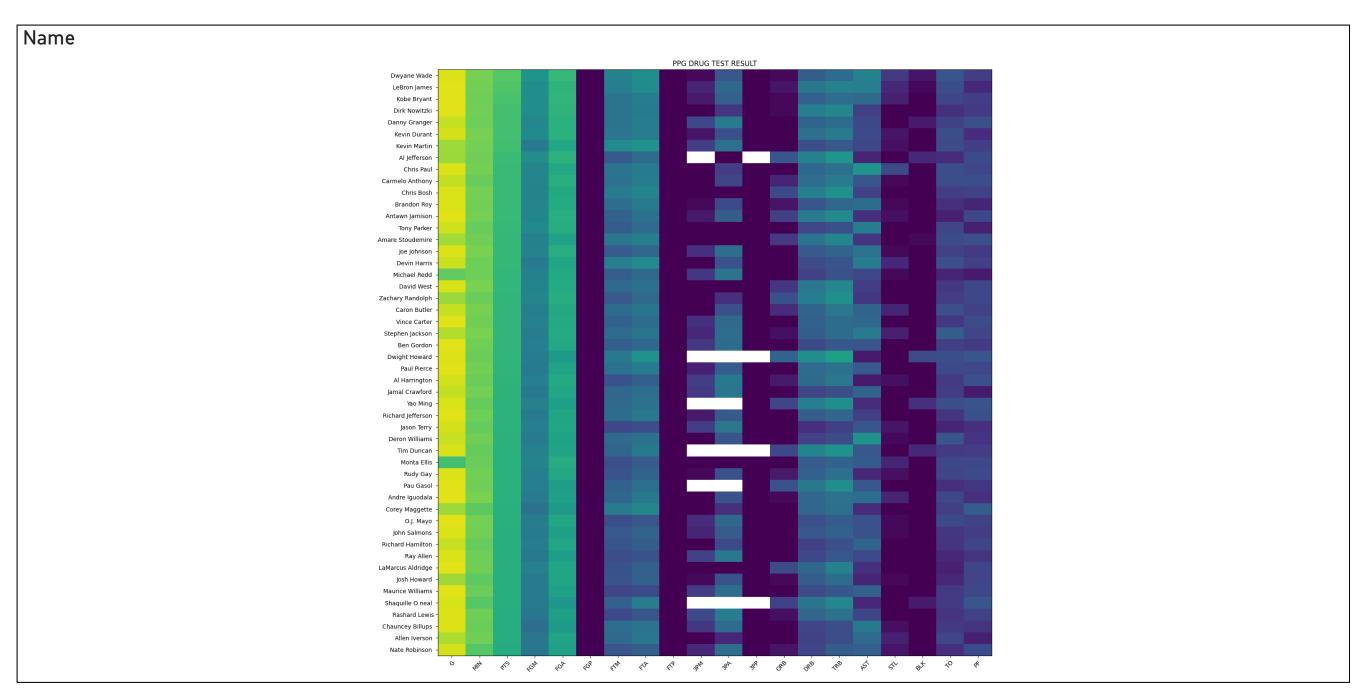
Heat Map- Power Bl

PPG DRUG TEST RESULT

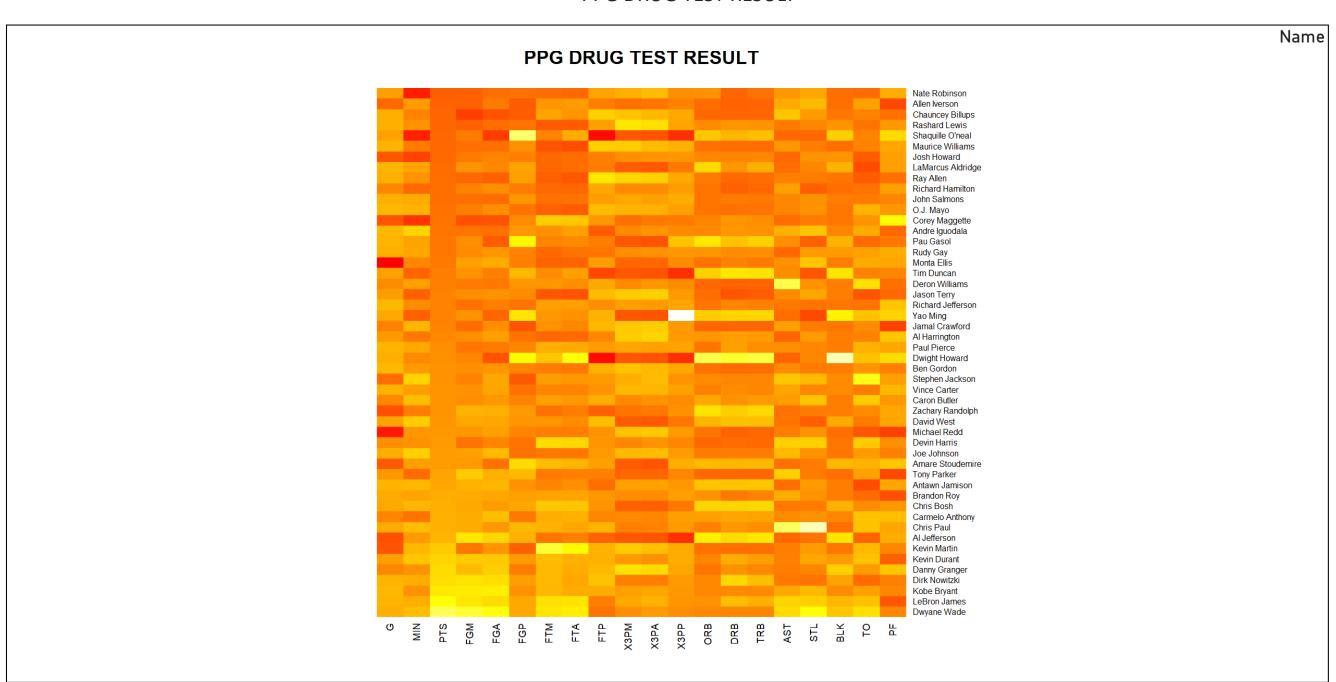
Marker Stoudemire 0.10 0.10 0.43 2.00 1.10 5.90 1.10 5.90 1.10 0.50 0.54 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.5	Name	3PA	3PM	3PP	AST	BLK	DRB	FGA	FGM	FGP	FTA	FTM	FTP	G	MIN	ORB	PF	PTS	STL	ТО	TRB
Mightenson 1,00 0,00 0,00 0,00 1	Al Harrington	6.40	2 30	0.36	1 40	0.30	4 90	16.60	7 30	0.44	4 00	3 20	0.79	73	34 90	1 40	3 10	20 10	1 20	2 20	6.20
Marcus Ma																					
Marker Stoudemire 0.10 0.10 0.43 2.00 1.10 5.90 1.10 5.90 1.10 0.50 0.54 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.54 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.50 0.55 0.5	Allen Iverson																				
Andre Iguodala 3.20 1.00 0.31 5.30 0.40 4.60 14.00 6.60 0.47 6.40 4.60 0.72 82 39.80 1.10 1.90 18.80 1.60 2.70 5.70 1.00 Andrawn Jamison 3.90 1.40 0.35 1.90 0.30 6.50 17.80 8.30 0.47 5.60 4.20 0.75 81 38.20 2.40 2.70 2.20 1.20 1.50 8.90 1.00 Grandon 5.10 2.10 1.10 3.40 0.30 3.40 16.90 7.30 0.46 4.70 4.00 86 82 36.00 0.50 2.20 1.20 1.50 1.50 8.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	Amare Stoudemire	0.10																			8.10
Antawn Jamison 3,90 1,40 0,35 1,90 0,30 6,50 1,78 0,80 0,30 0,47 0,50 0,40 0,75 81 38.20 2.40 2.70 2.20 1,20 1,20 1,50 8,90 ere Gordon 5,10 2,10 0,41 3,40 0,30 2,80 16,00 73.0 0,46 4,70 4,00 0,86 82 36.60 0,60 2,20 2,70 0,90 2,40 3,50 1,30 1,30 1,30 1,30 1,30 1,30 1,30 1,3	Andre Iguodala					0.40					6.40										5.70
Tandon Roy 2.80 1.10 0.38 5.10 0.30 3.40 16.90 8.10 0.48 6.50 5.30 0.82 78 37.20 1.30 1.60 22.60 1.10 1.90 4.70 1.00 1.00 1.00 0.37 3.40 0.40 5.20 18.30 8.10 0.44 7.10 5.60 0.79 66 34.50 1.60 3.00 22.80 1.10 3.00 6.80 1.00 1.00 0.31 1.30 0.30 1.40 16.20 7.30 0.45 6.00 5.10 0.86 67 38.60 1.80 2.50 20.80 1.60 3.10 6.20 1.00 1.00 1.00 0.31 1.30 0.30 1.40 16.20 7.30 0.45 6.00 5.00 0.86 67 38.60 1.80 2.50 20.80 1.60 3.10 6.20 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	Antawn Jamison	3.90	1.40	0.35	1.90	0.30	6.50	17.80	8.30	0.47	5.60	4.20	0.75	81	38.20	2.40	2.70	22.20	1.20	1.50	8.90
Ramelo Anthony 2.60 1.00 0.37 3.40 0.40 5.20 18.30 8.10 0.44 7.10 5.60 0.79 66 34.50 1.60 3.00 22.80 1.10 3.00 6.80 aron Butler 3.10 1.00 0.31 4.30 0.30 4.40 16.20 7.30 0.45 6.00 5.10 0.86 67 38.60 1.80 2.50 2.80 1.60 3.10 3.00 2.20 3.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Ben Gordon	5.10	2.10	0.41	3.40	0.30	2.80	16.00	7.30	0.46	4.70	4.00	0.86	82	36.60	0.60	2.20	20.70	0.90	2.40	3.50
Saron Butler 3.10 1.00 0.31 4.30 0.30 4.40 16.20 7.30 0.45 6.00 5.10 0.86 67 38.60 1.80 2.50 2.00 1.60 3.10 6.20 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	Brandon Roy	2.80	1.10	0.38	5.10	0.30	3.40	16.90	8.10	0.48	6.50	5.30	0.82	78	37.20	1.30	1.60	22.60	1.10	1.90	4.70
Charlos Billups (blauncey Bill	Carmelo Anthony	2.60	1.00	0.37	3.40	0.40	5.20	18.30	8.10	0.44	7.10	5.60	0.79	66	34.50	1.60	3.00	22.80	1.10	3.00	6.80
Chris Bosh (hris Bosh (hris Bosh (hris Bosh (hris Bosh (hris Paul (hris Bosh (hris Paul	Caron Butler	3.10	1.00	0.31	4.30	0.30	4.40	16.20	7.30	0.45	6.00	5.10	0.86	67	38.60	1.80	2.50	20.80	1.60	3.10	6.20
2.30 0.80 0.36 11.00 0.10 4.70 16.10 8.10 0.50 6.70 5.80 0.87 78 38.50 0.90 2.70 22.80 2.80 3.00 5.50 corey Maggette 1.90 0.50 0.25 1.80 0.20 4.60 12.40 5.70 0.46 8.10 6.70 0.82 51 31.10 1.00 3.80 18.60 0.90 2.40 5.50 0.80 0.80 0.80 0.80 0.80 0.80 0.8	Chauncey Billups	5.00	2.10	0.41	6.40	0.20	2.60	12.40	5.20	0.42	5.80	5.30	0.91	79	35.30	0.40	2.00	17.70	1.20	2.20	3.00
Sorey Maggette 1.90 0.50 0.25 1.80 0.20 4.60 12.40 5.70 0.46 8.10 6.70 0.82 51 31.10 1.00 3.80 18.60 0.90 2.40 5.50 0.40 0.40 0.40 0.40 0.40 0.40 0	Chris Bosh	0.60	0.20	0.25	2.50	1.00	7.20	16.40	8.00	0.49	8.00	6.50	0.82	77	38.10	2.80	2.50	22.70	0.90	2.30	10.00
Panny Granger (a.70) 2.70 (b.4) 2.70 (b.4) 2.70 (b.4) 4.40 (b.4) 19.10 (b.5) 0.45 (b.9) 6.00 (b.8) 6.70 (b.8)	Chris Paul	2.30	0.80	0.36	11.00	0.10	4.70	16.10	8.10	0.50	6.70	5.80	0.87	78	38.50	0.90	2.70	22.80	2.80	3.00	5.50
David West 0.30 0.10 0.24 2.30 0.90 6.40 17.00 8.00 0.47 5.50 4.80 0.88 76 39.30 2.10 2.70 21.00 0.60 2.10 8.50 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0	Corey Maggette	1.90	0.50	0.25	1.80	0.20	4.60	12.40	5.70	0.46	8.10	6.70	0.82	51	31.10	1.00	3.80	18.60	0.90	2.40	5.50
Deron Williams 3.30 1.00 0.31 10.70 0.30 2.50 14.50 6.80 0.47 5.60 4.80 0.85 68 36.90 0.40 2.00 19.40 1.10 3.40 2.90 0.90 0.90 0.90 0.90 0.90 0.90 0.9	Danny Granger	6.70	2.70	0.40	2.70	1.40	4.40	19.10	8.50	0.45	6.90	6.00	0.88	67		0.70	3.10	25.80	1.00	2.50	5.10
Devin Harris 3.20 0.90 0.29 6.90 0.20 2.90 15.10 6.60 0.44 8.80 7.20 0.82 69 36.10 0.40 2.40 21.30 1.70 3.10 3.30 object Nowitzki 2.10 0.80 0.36 2.40 0.80 7.30 20.00 9.60 0.48 6.70 6.00 0.89 81 37.70 1.10 2.20 25.90 0.80 1.90 8.40 object Howard 0.00 0.00 0.00 1.40 2.90 9.60 12.40 7.10 0.57 10.70 6.40 0.59 79 35.70 4.30 3.40 20.60 1.00 3.00 13.80 object Wade 3.50 1.10 0.32 7.50 1.30 3.90 22.00 10.80 0.49 9.80 7.50 0.77 79 38.60 1.10 2.30 30.20 2.20 3.40 5.00 amal Crawford 6.10 2.20 0.36 4.40 0.20 2.60 15.70 6.40 0.41 5.30 4.60 0.87 65 38.10 0.40 1.40 19.70 0.90 2.30 3.00 amal Crawford 6.20 2.30 0.37 3.40 0.30 1.90 15.80 7.30 0.46 3.00 2.70 0.88 74 33.60 0.50 1.90 19.60 1.30 1.60 2.40 object Johnson 5.20 1.90 0.36 5.80 0.20 3.60 18.00 7.80 0.44 4.60 3.80 0.83 79 39.50 0.80 2.20 21.40 1.10 2.50 4.40 object Johnson 3.80 1.60 0.42 3.20 0.30 3.50 13.80 6.50 0.47 4.40 3.60 0.83 79 37.50 0.70 2.30 18.30 1.10 2.10 4.20 object Johnson 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 devin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 2.60 18.10 1.00 1.50 7.50 amal amarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 amal amarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 amarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 amarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 amarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0	David West	0.30	0.10	0.24	2.30	0.90	6.40	17.00	8.00	0.47	5.50	4.80	0.88	76	39.30	2.10	2.70	21.00	0.60	2.10	8.50
Dirk Nowitzki	Deron Williams	3.30			10.70			14.50									2.00	19.40	1.10	3.40	2.90
Dwight Howard 0.00 0.00 0.00 1.40 2.90 9.60 12.40 7.10 0.57 10.70 6.40 0.59 79 35.70 4.30 3.40 20.60 1.00 3.00 13.80 20.00 20.	Devin Harris	3.20										7.20		69			2.40				3.30
Dwyane Wade 3.50 1.10 0.32 7.50 1.30 3.90 22.00 10.80 0.49 9.80 7.50 0.77 79 38.60 1.10 2.30 30.20 2.20 3.40 5.00 amal Crawford 6.10 2.20 0.36 4.40 0.20 2.60 15.70 6.40 0.41 5.30 4.60 0.87 65 38.10 0.40 1.40 19.70 0.90 2.30 3.00 ason Terry 6.20 2.30 0.37 3.40 0.30 1.90 15.80 7.30 0.46 3.00 2.70 0.88 74 33.60 0.50 1.90 19.60 1.30 1.60 2.40 oblin Salmons 5.20 1.90 0.36 5.80 0.20 3.60 18.00 7.80 0.44 4.60 3.80 0.83 79 39.50 0.80 2.20 21.40 1.10 2.50 4.40 oblin Salmons 3.80 1.60 0.42 3.20 0.30 3.50 13.80 6.50 0.47 4.40 3.60 0.83 79 37.50 0.70 2.30 18.30 1.10 2.10 4.20 oblin Salmons 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 devin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 dobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 amal Crawford 3.20 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1	Dirk Nowitzki																				8.40
amal Crawford 6.10 2.20 0.36 4.40 0.20 2.60 15.70 6.40 0.41 5.30 4.60 0.87 65 38.10 0.40 1.40 19.70 0.90 2.30 3.00 ason Terry 6.20 2.30 0.37 3.40 0.30 1.90 15.80 7.30 0.46 3.00 2.70 0.88 74 33.60 0.50 1.90 19.60 1.30 1.60 2.40 ason Terry 6.20 1.90 0.36 5.80 0.20 3.60 18.00 7.80 0.44 4.60 3.80 0.83 79 39.50 0.80 2.20 21.40 1.10 2.50 4.40 ason Delta Delt	Dwight Howard																				
ason Terry 6.20 2.30 0.37 3.40 0.30 1.90 15.80 7.30 0.46 3.00 2.70 0.88 74 33.60 0.50 1.90 19.60 1.30 1.60 2.40 oe Johnson 5.20 1.90 0.36 5.80 0.20 3.60 18.00 7.80 0.44 4.60 3.80 0.83 79 39.50 0.80 2.20 21.40 1.10 2.50 4.40 ohn Salmons 3.80 1.60 0.42 3.20 0.30 3.50 13.80 6.50 0.47 4.40 3.60 0.83 79 37.50 0.70 2.30 18.30 1.10 2.10 4.20 osh Howard 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 (evin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 (evin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 (obe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50	-																				
be Johnson 5.20 1.90 0.36 5.80 0.20 3.60 18.00 7.80 0.44 4.60 3.80 0.83 79 39.50 0.80 2.20 21.40 1.10 2.50 4.40 ohn Salmons 3.80 1.60 0.42 3.20 0.30 3.50 13.80 6.50 0.47 4.40 3.60 0.83 79 37.50 0.70 2.30 18.30 1.10 2.10 4.20 osh Howard 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 devin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 dobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50																					
cohn Salmons 3.80 1.60 0.42 3.20 0.30 3.50 13.80 6.50 0.47 4.40 3.60 0.83 79 37.50 0.70 2.30 18.30 1.10 2.10 4.20 cosh Howard 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 devin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 dobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50	Jason Terry																				
osh Howard 3.20 1.10 0.35 1.60 0.60 3.90 15.10 6.80 0.45 4.20 3.30 0.78 52 31.90 1.10 2.60 18.00 1.10 1.70 5.10 (evin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 (evin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 (obe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50	Joe Johnson																				
Gevin Durant 3.10 1.30 0.42 2.80 0.70 5.50 18.80 8.90 0.48 7.10 6.10 0.86 74 39.00 1.00 1.80 25.30 1.30 3.00 6.50 devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 clobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50																					
devin Martin 5.40 2.30 0.42 2.70 0.20 3.00 15.90 6.70 0.42 10.30 9.00 0.87 51 38.20 0.60 2.30 24.60 1.20 2.90 3.60 dobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50																					
Gobe Bryant 4.10 1.40 0.35 4.90 0.50 4.10 20.90 9.80 0.47 6.90 5.90 0.86 82 36.20 1.10 2.30 26.80 1.50 2.60 5.20 aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50																					
aMarcus Aldridge 0.30 0.10 0.25 1.90 1.00 4.60 15.30 7.40 0.48 4.10 3.20 0.78 81 37.10 2.90 2.60 18.10 1.00 1.50 7.50																					
	,																				
	LaMarcus Aldridge	0.30												81	37.10						7.50

Heat Map - Python

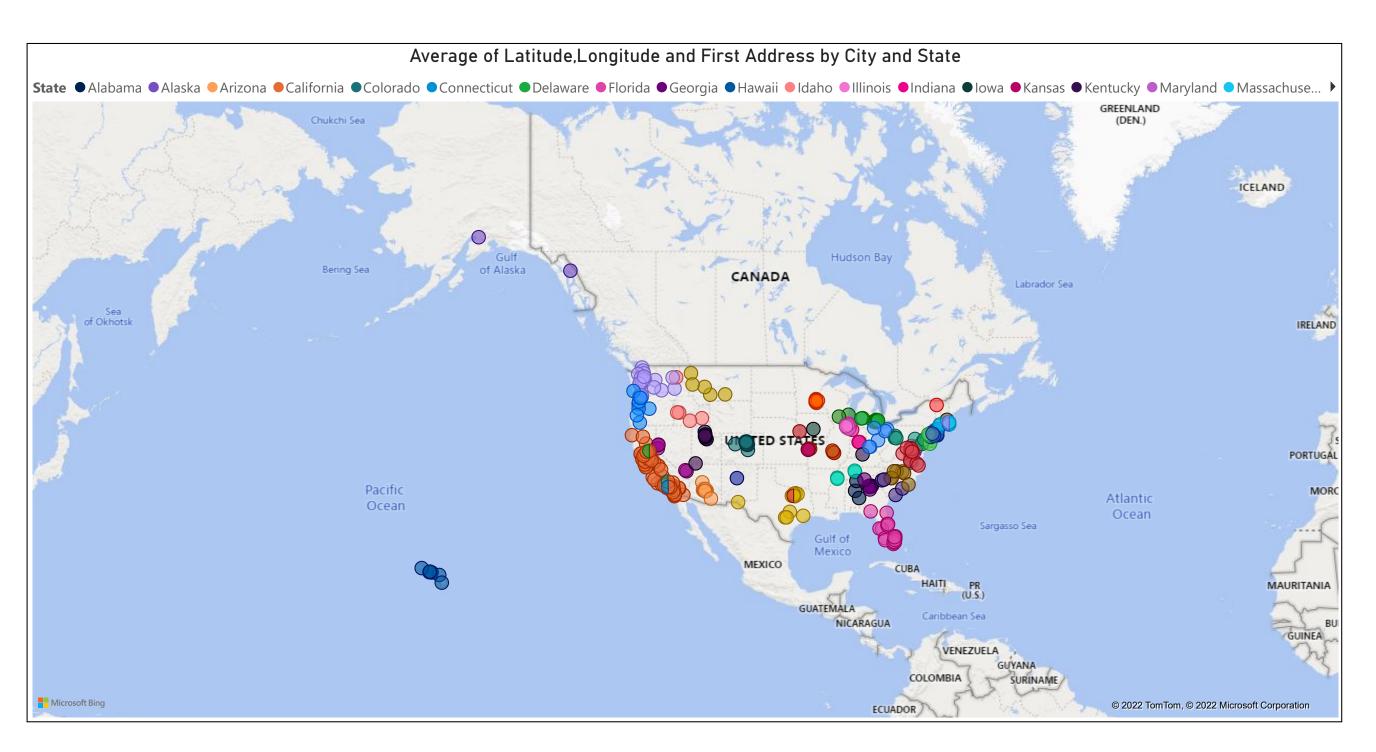
PPG DRUG TEST RESULT



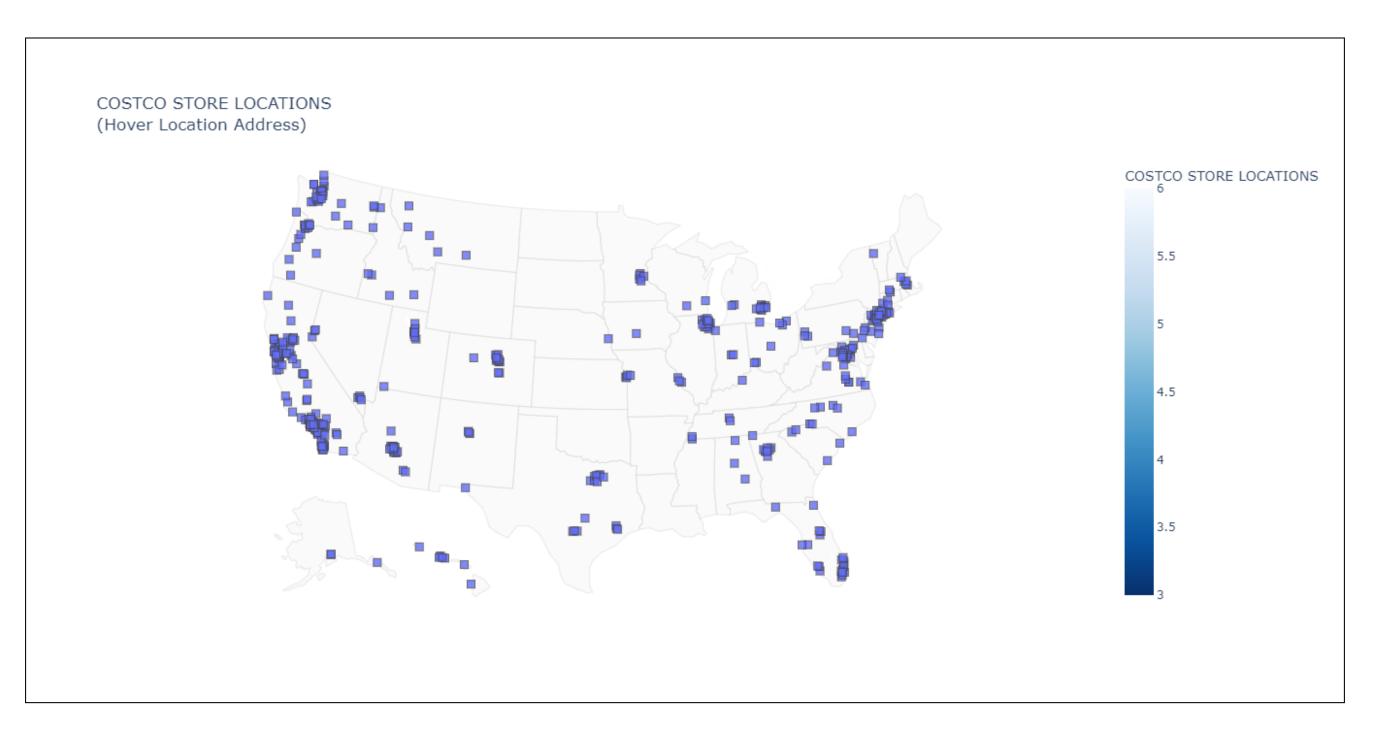
Heat Map - R Program PPG DRUG TEST RESULT



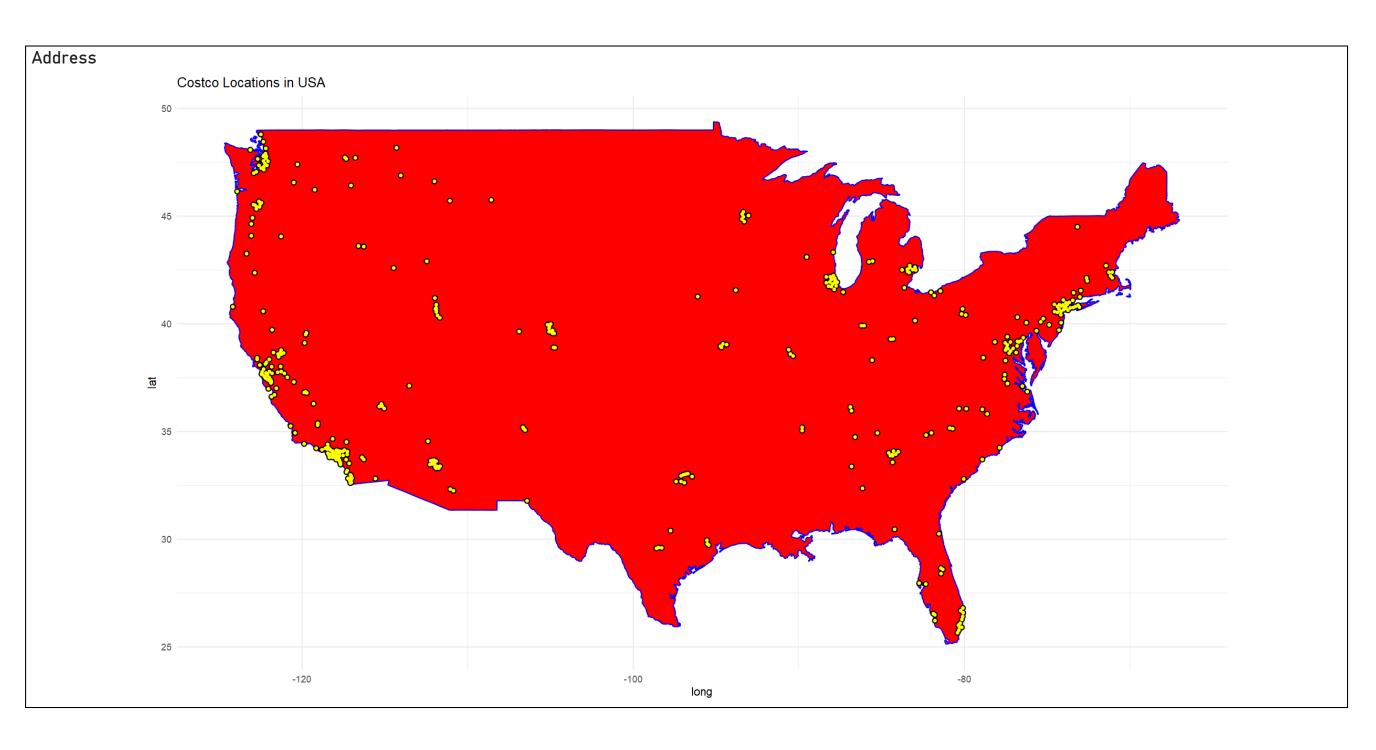
Spatial chart - Power BI



Spatial Chart Python



Spatial Chart - R Programming



Funnel Chart - Power BI

