

MSB106 - Assignment

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Warning: One or more parsing issues, see `problems()` for details

	knr	DistMal	HubName	Turnover_capita_retail	SizeMall	Winemonopoly
	Length:435	Min. : 0.01854	Min. : 6.0	Min. : 17366	Min. : 2.00	Min. :0.0000
	Class :character	1st Qu.: 9.41403	1st Qu.:220.0	1st Qu.: 59250	1st Qu.: 13.00	1st Qu.:0.0000
	Mode :character	Median :18.87373	Median :291.0	Median : 83203	Median : 25.00	Median :1.0000
	NA	Mean :23.82982	Mean :280.8	Mean : 84719	Mean : 37.22	Mean :0.5701
	NA	3rd Qu.:32.67127	3rd Qu.:363.0	3rd Qu.:106257	3rd Qu.: 50.00	3rd Qu.:1.0000
	NA	Max. :98.37355	Max. :424.0	Max. :218728	Max. :206.00	Max. :1.0000
	NA	NA	NA	NA	NA's :124	NA's :107

	Antall.ans	Driftsres	Sum.salgsi	latlong
	Min. : 0.00	Min. :-30319000	Min. : -28000	Length:5740
	1st Qu.: 1.00	1st Qu.: -5000	1st Qu.: 658250	Class :character
	Median : 1.00	Median : 330000	Median : 3176500	Mode :character
	Mean : 39.26	Mean : 4842620	Mean : 50123495	NA
	3rd Qu.: 3.00	3rd Qu.: 1201750	3rd Qu.: 6248250	NA
	Max. :6870.00	Max. :108100000	Max. :1058102000	NA
	NA	NA's :3838	NA's :3838	NA

	DistCBD	DistMal	X_sum	DistComp
	Min. : 0.0046	Min. : 0.0008	Min. : 0	Min. : 0.0
	1st Qu.: 1.3912	1st Qu.: 0.3145	1st Qu.: 6129	1st Qu.: 0.0
	Median : 6.7067	Median : 0.9164	Median :14602	Median : 0.0
	Mean : 20.5000	Mean : 4.6331	Mean :22455	Mean : 614.4
	3rd Qu.: 19.8885	3rd Qu.: 2.5220	3rd Qu.:28904	3rd Qu.: 197.7
	Max. :470.1005	Max. :105.8867	Max. :92591	Max. :60577.8

	SizeMall	Winemonopoly
	Min. : 1.0	Min. :0.0000
	1st Qu.: 21.0	1st Qu.:0.0000
	Median : 40.0	Median :1.0000
	Mean : 51.1	Mean :0.6429
	3rd Qu.: 70.0	3rd Qu.:1.0000
	Max. :206.0	Max. :1.0000
	NA's :1388	NA's :1274

Warning: Removed 124 rows containing missing values (geom_point).

Warning: Removed 3838 rows containing missing values (geom_point).

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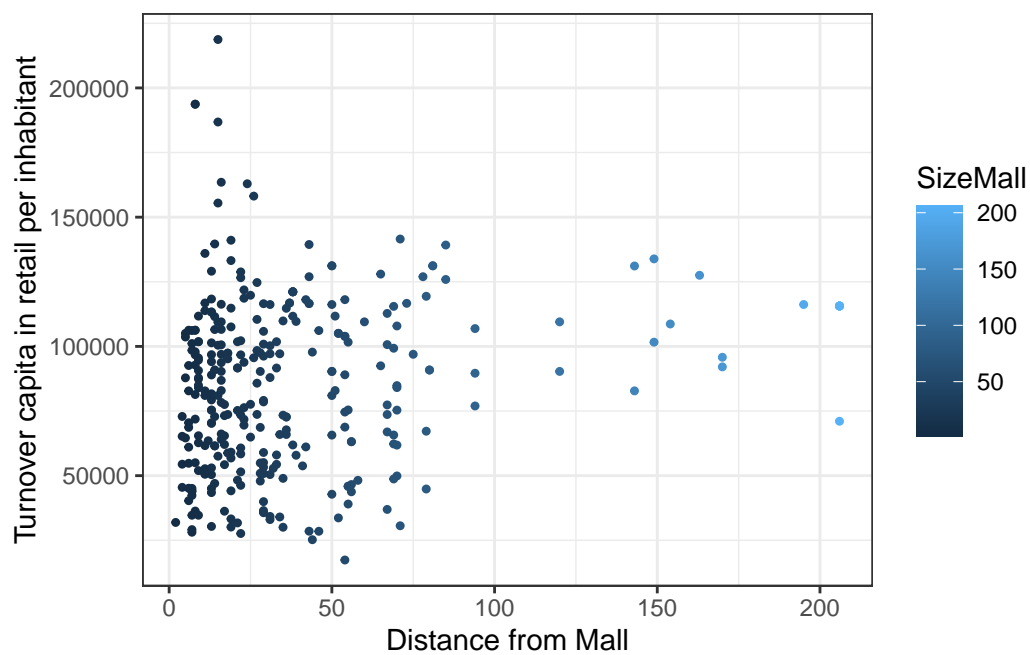


Figure 1: Capita in retail compared to mall distance

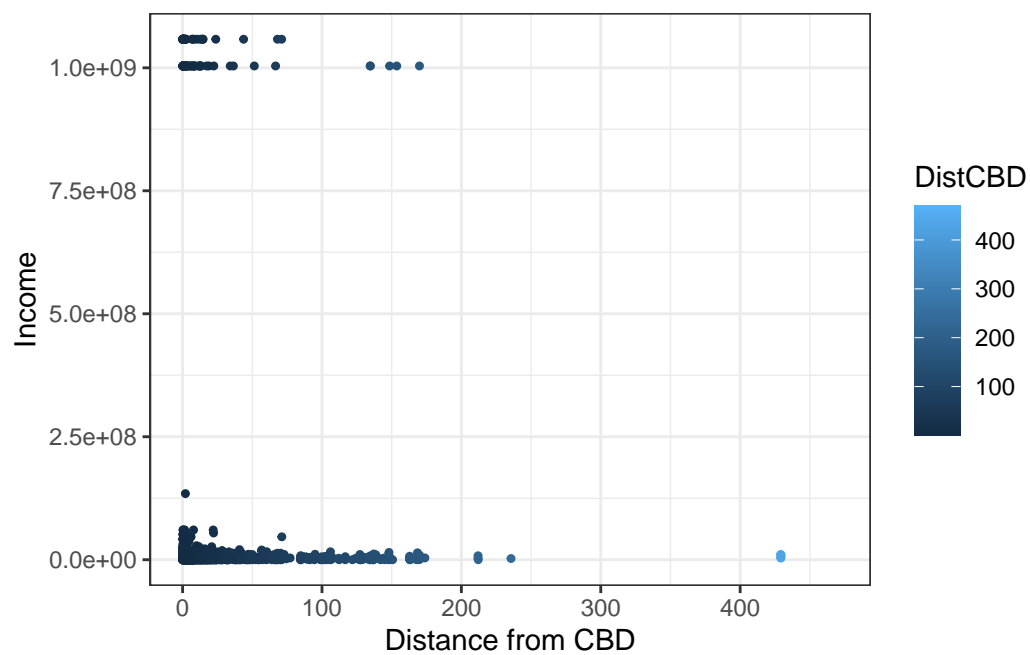


Figure 2: Dentist income compared to CBD distance

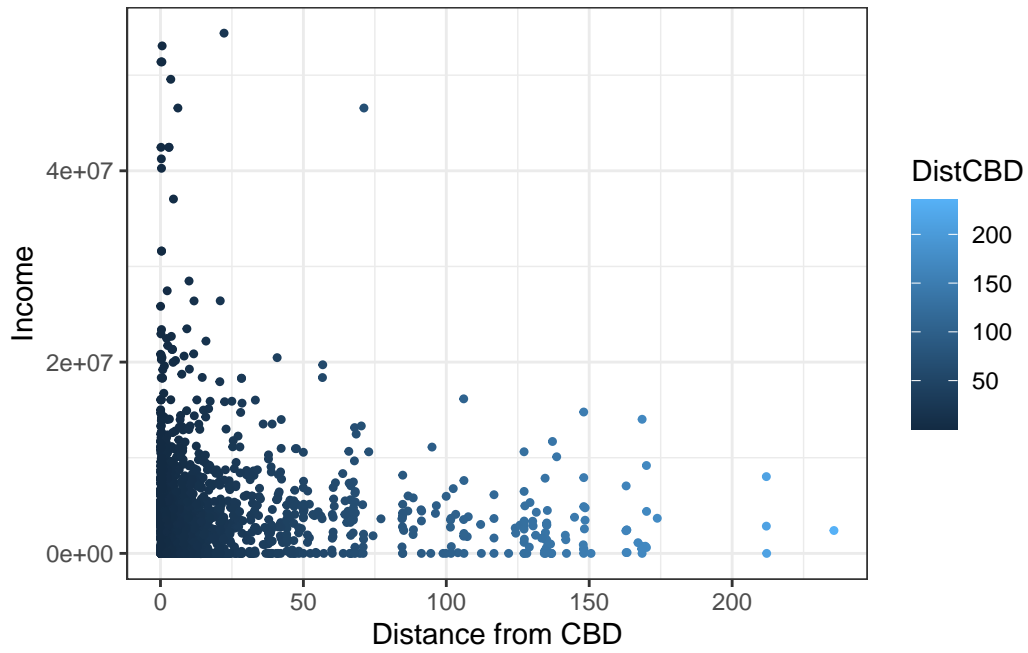
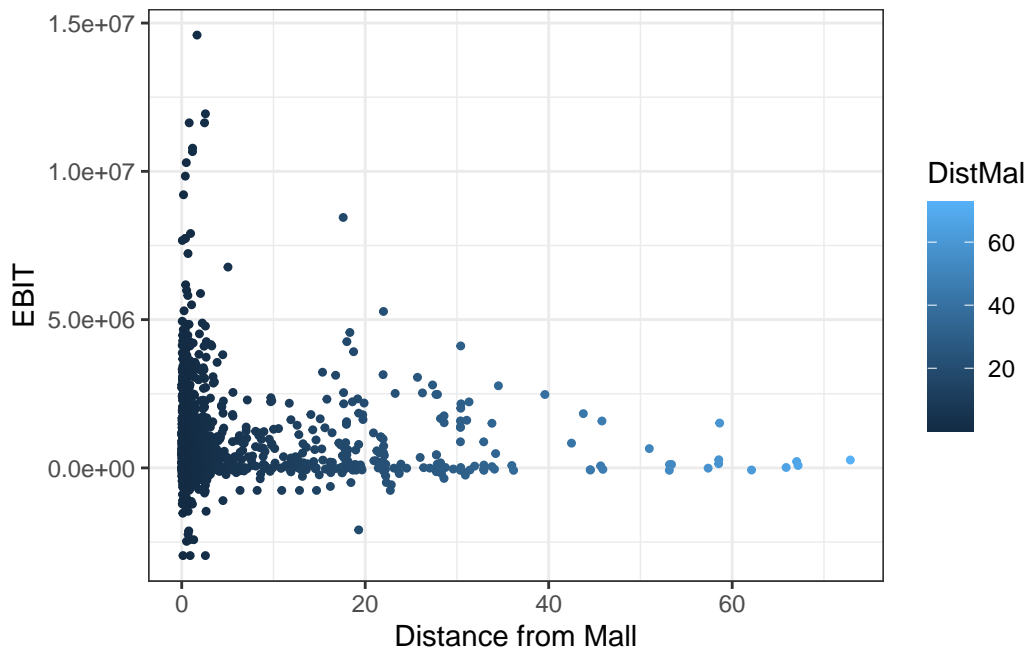


Figure 3: Dentist income compared to CBD distance



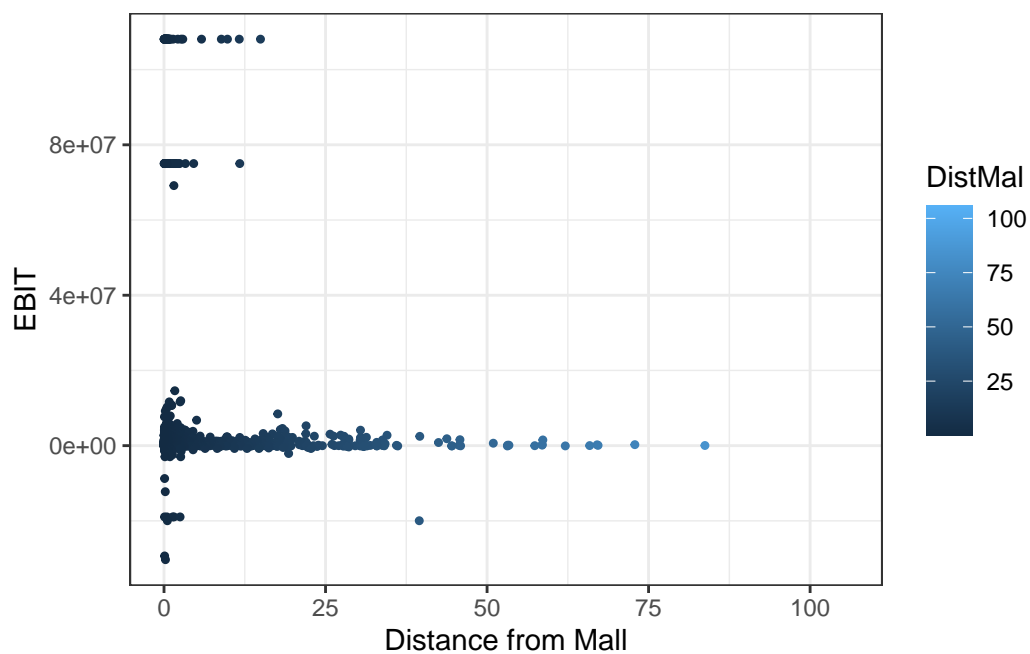
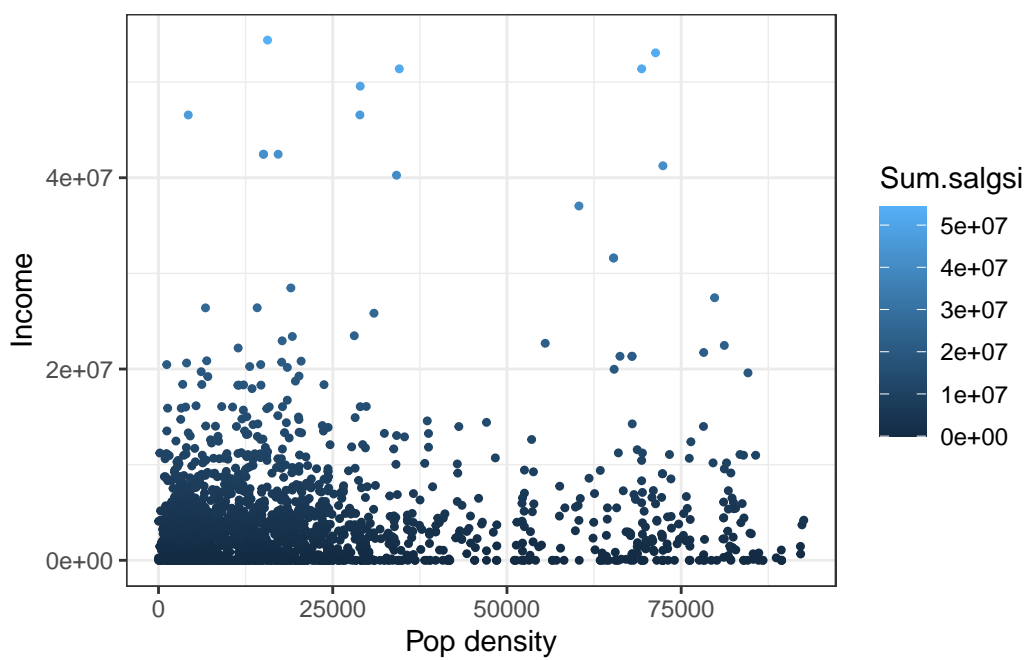


Figure 4: Dentist EBIT compared to Mall distance



Econometric approach

	Dentist Revenue
(Intercept)	3616068.187 *** (373568.663)
DistComp	-105.228 (152.737)
DistMal	-13619.260 (32749.952)
SizeMall	10063.209 * (4523.296)
DistCBD	7969.413 (9756.588)
X_sum	13.257 (7.925)
DistMal:SizeMall	-106.204 (724.299)
DistCBD:X_sum	-1.105 (1.065)
N	1364
R2	0.008

Note: *** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$ T statistics in brackets.

	Turnover per capita in retail
(Intercept)	90614.356 *** (4355.729)
DistMal	-393.142 ** (139.667)
SizeMall	175.797 * (75.816)
Winemonopoly	-1319.795 (3829.574)
DistMal:SizeMall	-3.390 (3.293)
N	311
R2	0.116

Note: *** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$ T statistics in brackets.