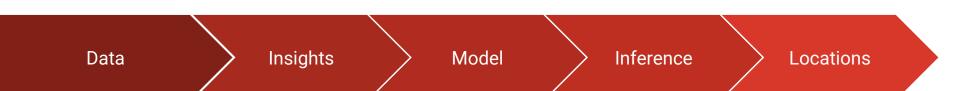


"Perfect" Store Location



DATA

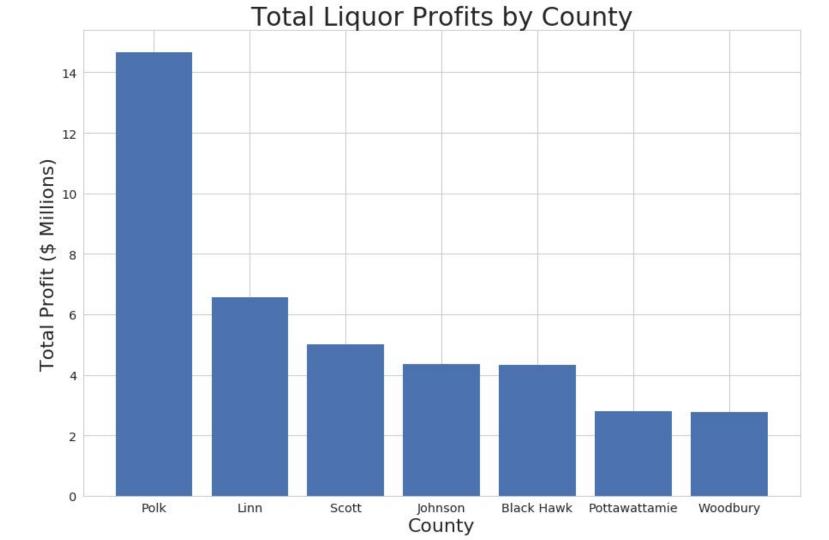
Jan 2015 - Mar 2016

Transaction

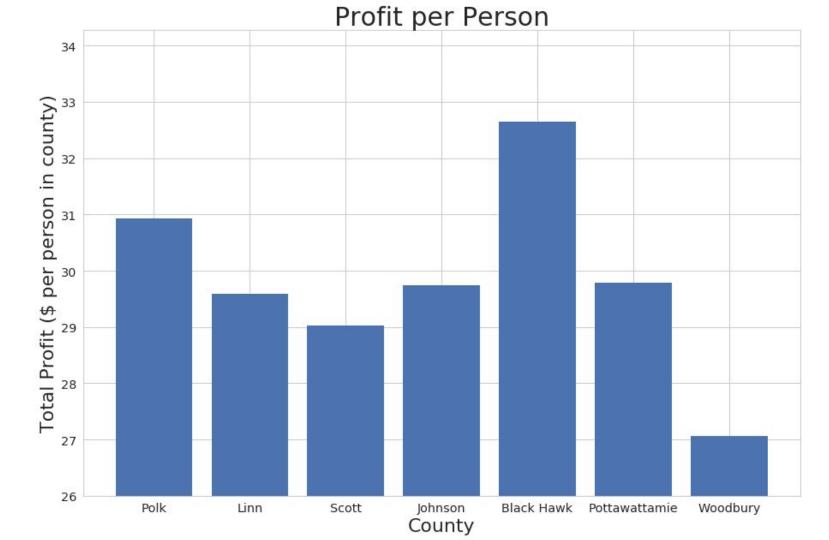
Median

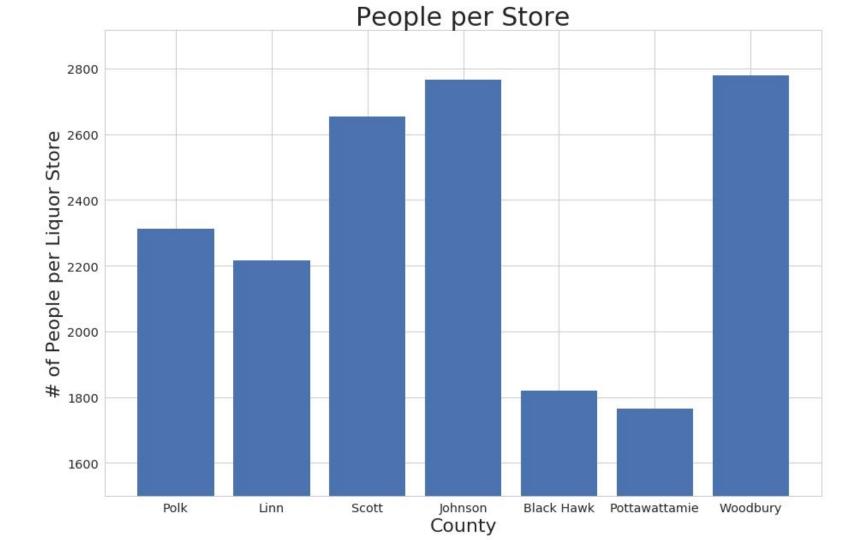
Bottles Sold	Sale (Dollars)	Volume Sold (Liters)	Profit	Price per Bottle
6.	67.14	4.5	22.38	11.88

INSIGHTS



TOP STORE	COUNTY	TOTAL PROFIT		
Central City 2	Polk	\$946k		
Hy-Vee Iowa City	Johnson	\$681k		
Benz Distributing	Linn	\$533k		
Lot-A-Spirits	Scott	\$509k		
Hy-Vee Council Bluff	Pottawattamie	\$456k		
Charlies Wine And Spirits	Woodbury	\$330k		
Hy-Vee Cedar Falls	Black Hawk	\$303k		



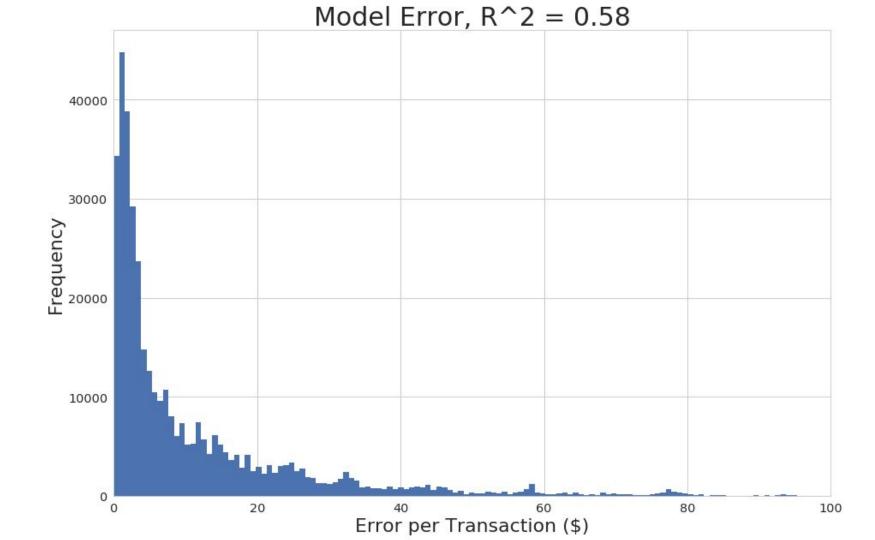


MODEL

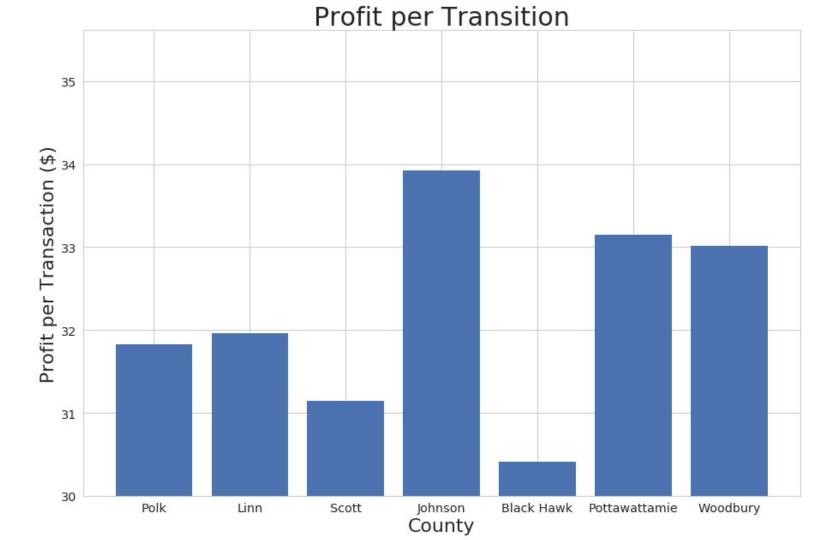
County Bottles Sold Price per Bottle

OLS Regression Results

Dep. Variable:	Pro	fit	R-square	d:	0.584	
Model:	0	LS Ad	j. R-square	d:	0.584	
Method:	Least Squar	es	F-statistic:		1.554e+05	
Date: Thu	, 08 Feb 20:	18 Prob	(F-statistic	:):	0.00	
Time:	19:38:0	07 Log	Log-Likelihood:		-3.8295e+06	
No. Observations:	88607	78	AIG	C: 7.6	7.659e+06	
Df Residuals:	8860	69	ВІС	C: 7.6	59e+06	
Df Model:		8				
Covariance Type:	nonrobu	ıst				
	coef	std err	t	P> t	[0.025	0.975
const	-16.5462	0.072	-228.735	0.000	16.688	-16.404
Bottles Sold	2.4197	0.003	956.044	0.000	2.415	2.425
Price per Bottle	1.9287	0.002	817.317	0.000	1.924	1.933
County_Johnson	3.6509	0.085	43.156	0.000	3.485	3.817
County_Linn	1.6172	0.074	21.787	0.000	1.472	1.763
County_Polk	1.5334	0.066	23.157	0.000	1.404	1.663
County_Pottawattamie	2.8398	0.094	30.266	0.000	2.656	3.024
County_Scott	0.7829	0.080	9.786	0.000	0.626	0.940
County_Woodbury	2.6565	0.096	27.596	0.000	2.468	2.845
Omnibus: 10636	50.372 D u	ırbin-Wat	tson:	1.998		
Prob(Omnibus):	0.000 Jan	que-Bera	(JB): 971	238.116		
Skew:	-0.233	Prob	(JB):	0.00		
Kurtosis:	8.108	08 Cond. No.				



INFERENCE



LOCATIONS

	Polk	Linn	Scott	Johnson	Black Hawk	Pottawattamie	Woodbury	
Profit per Person	30.93	29.59	29.03	29.74	32.64	29.79	27.06	
People per Store	2312	2217	2653	2765	1821	1766	2778	
(Predicted) Profit per Transaction	31.83	31.96	31.14	33.92	30.41	33.15	33.01	

	Polk	Linn	Scott	Johnson	Black Hawk	Pottawattamie	Woodbury	
Profit per Person	0.95	0.91	0.89	0.91	1	0.91	0.83	
People per Store	0.83	8.0	0.96	1	0.66	0.64	1	
(Predicted) Profit per Transaction	0.94	0.94	0.92	1	0.9	0.98	0.97	

	Polk	Linn	Scott	Johnson	Black Hawk	Pottawattamie	Woodbury
Score	0.74	0.68	0.79	0.91	0.59	0.57	0.81
RANK	4	5	3	1	6	7	2

FUTURE

- Improvements
- Future predictions using ~one year's worth a data? Doesn't make sense
 - sense
 +10 years of history to produce
 trends
 - More features
 - Should measure what's important according to the store's business model
 - Throughput rate?
 - Include other losses
 - Alcohol tax rate per county
 - Weighting scoring variables

QUESTIONS