

#### **Case Processing Summary**

	Cases							
	Valid		Miss	sing	Total			
	N	Percent	N	Percent	N	Percent		
bankrn	682	100.0%	0	0.0%	682	100.0%		
days	682	100.0%	0	0.0%	682	100.0%		

#### Percentiles

		Percentiles						
		5	10	25	50	75	90	95
Weighted Average	bankrn	7.00	12.00	21.00	44.50	88.25	139.70	171.70
(Definition 1)	days	509.15	592.60	802.00	1070.00	1684.00	2019.70	2104.85
Tukey's Hinges	bankrn			21.00	44.50	88.00		
	days			802.00	1070.00	1684.00		

### **Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
bankrn	.134	682	.000	.862	682	.000	
days	.117	682	.000	.927	682	.000	

a. Lilliefors Significance Correction

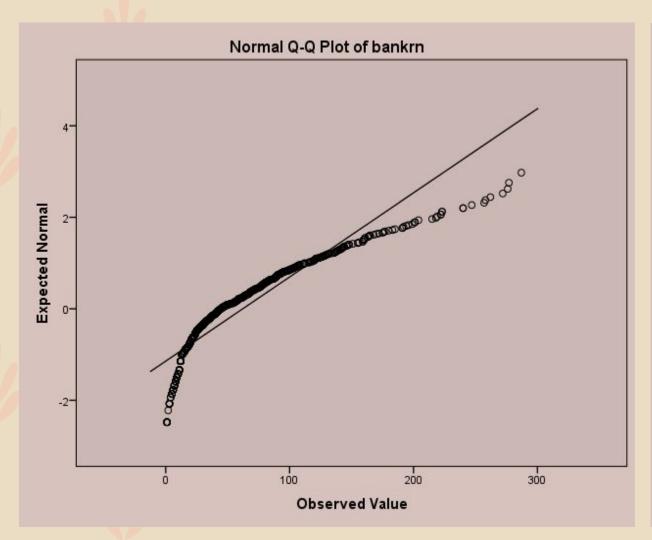
#### Descriptives

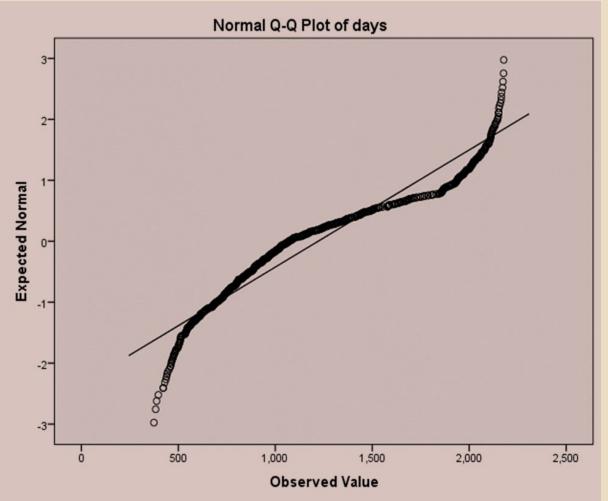
			Statistic	Std. Error
bankrn	Mean	62.18	2.083	
	95% Confidence Interval	Lower Bound	58.09	
	for Mean	Upper Bound	66.27	
	5% Trimmed Mean	56.83		
	Median	44.50		
	Variance	2958.181		
	Std. Deviation	54.389		
	Minimum	1		
	Maximum	287		
	Range	286		
8	Interquartile Range	67		
	Skewness	1.436	.094	
,	Kurtosis	2.075	.187	
days	Mean		1220.61	19.919
	95% Confidence Interval	Lower Bound	1181.50	
	for Mean	Upper Bound	1259.72	
	5% Trimmed Mean	1211.82		
	Median	1070.00		
	Variance	270588.984		
	Std. Deviation	520.182		
	Minimum	374		
2	Maximum	2178		
	Range	1804		
	Interquartile Range	882		
	Skewness	.392	.094	
	Kurtosis	-1.133	.187	



- Since skewness is above 1, the bankrn data is highly skewed.
- Since the skewness is between -0.5 and 0.5,i.e.,0.392, the days data is fairly symmetrical.
- Since the kurtosis is greater than zero for the bankrn data, the distribution has heavier.
- Since the kurtosis is less than zero for days data, the distribution is light tails.
- As the significance(sig) in both the variables is less than 0.05, the data deviates from the normal distribution.

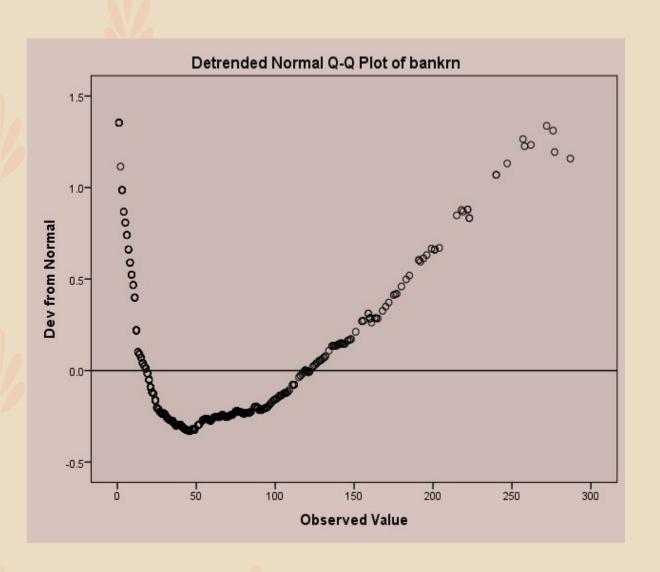
## NORMAL Q-Q PLOTS

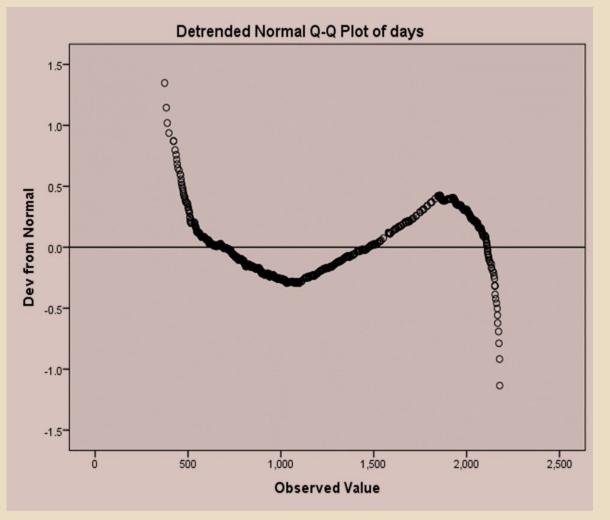




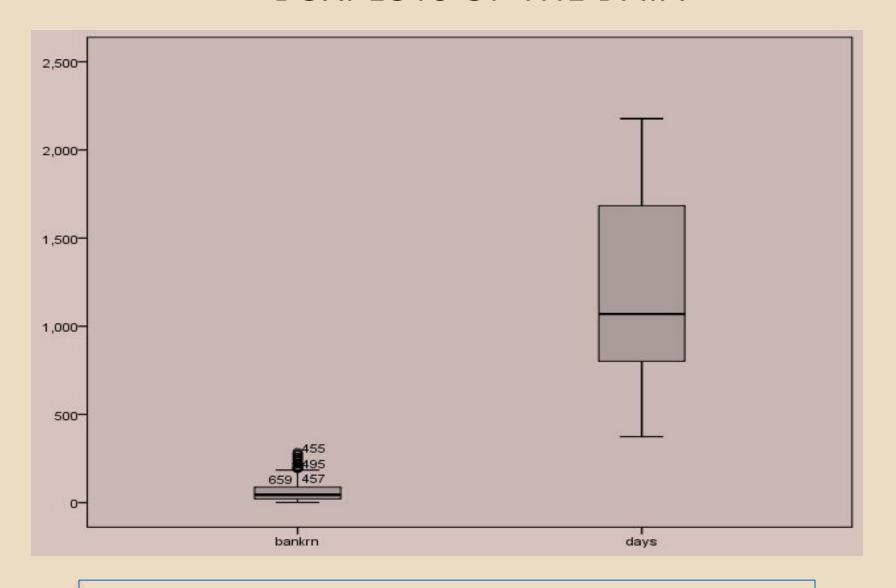
Since the plots are deviated from the normal line, the data is not normalized.

# DETRENDED MORMAL Q-Q PLOTS



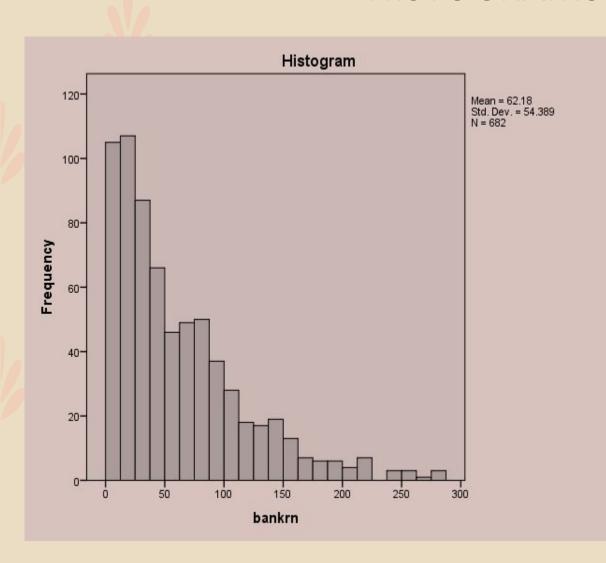


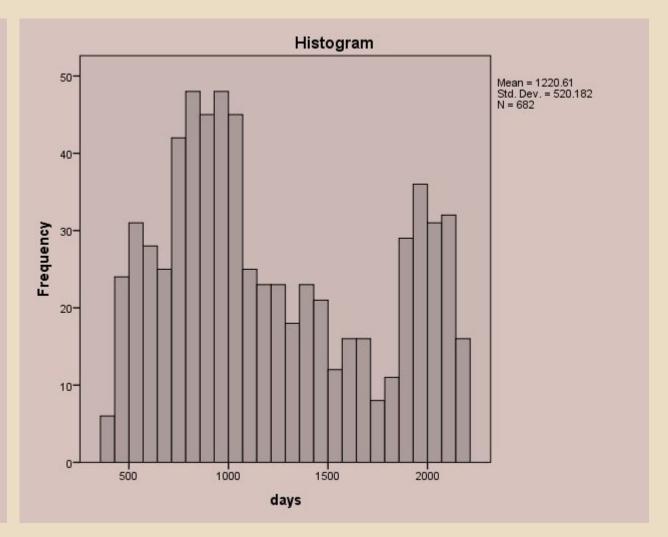
## **BOXPLOTS OF THE DATA**



There are many outliers in bankrn compared to days as seen in the plots

### HISTOGRAMS OF THE DATA





The graph is not following a bell shaped curve, so the data is not following normal distribution