

# [kaggle] Store Sales Time Series Forecasting

EDA start

## Explore train.csv

### Navigation

Select an option

EDA

▼

### The Required Information

store\_nbr

5

▼

family

GROCERY I

▼

Start Date

2017/08/16

End Date

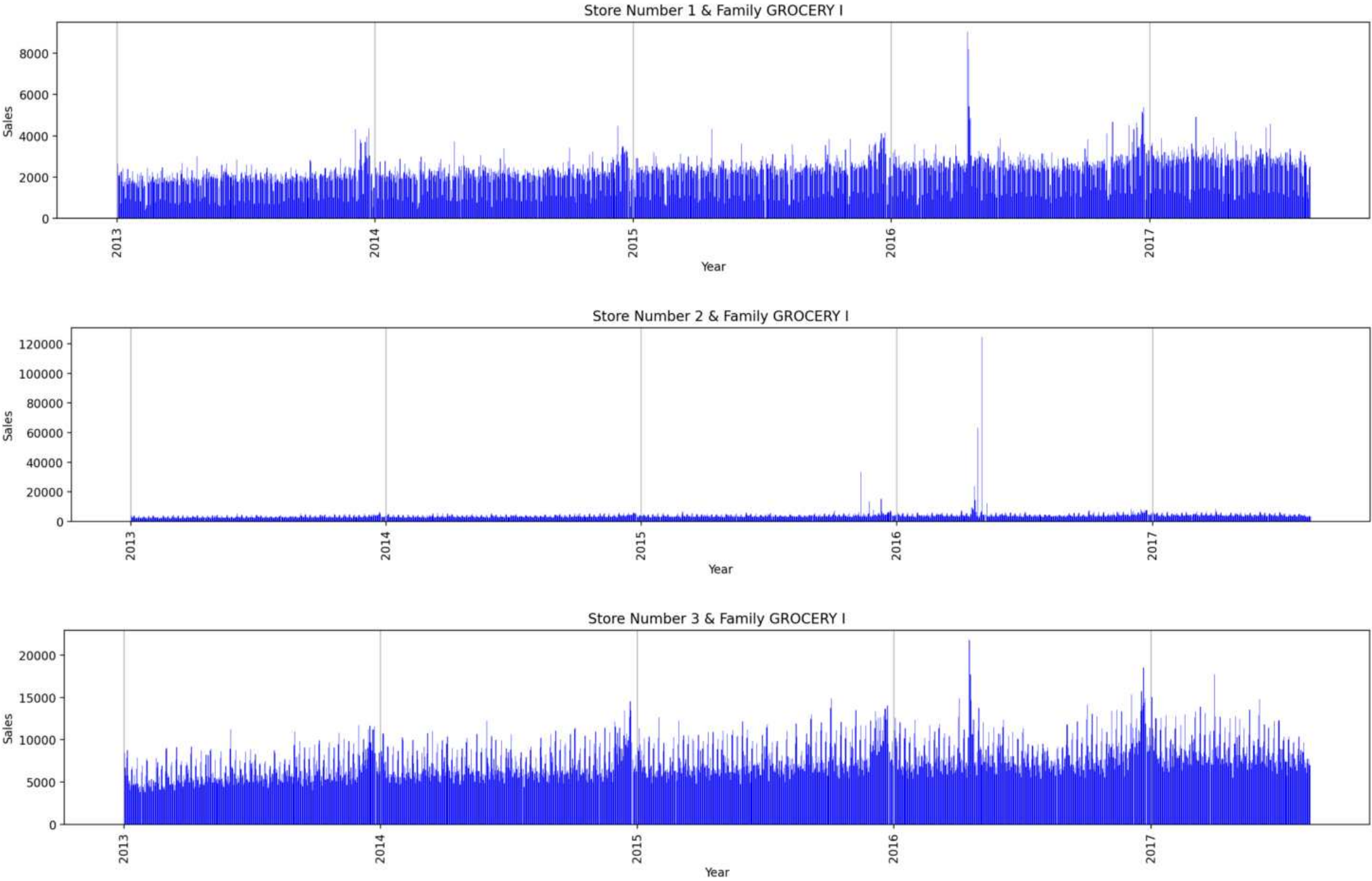
2017/08/31

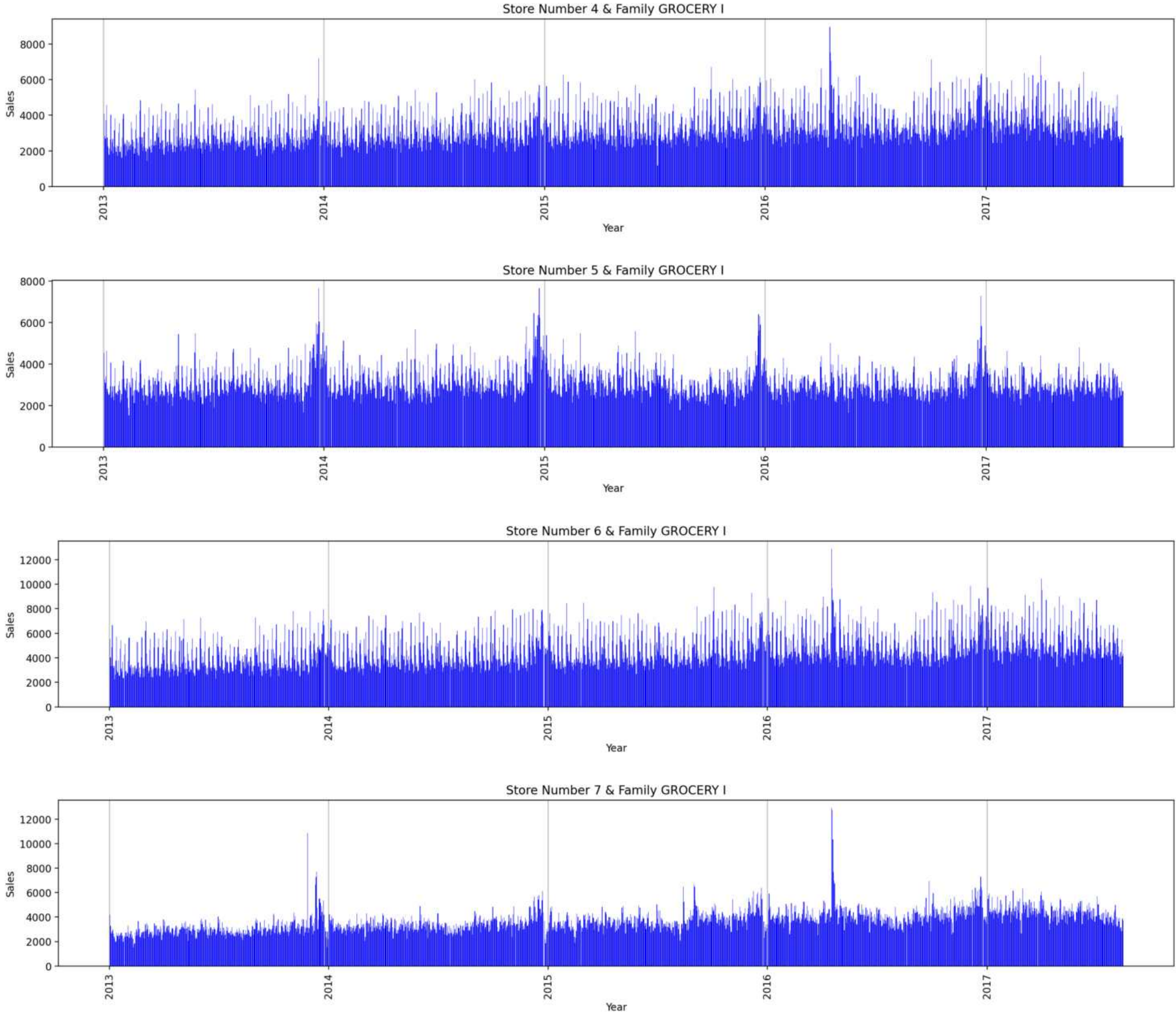
How many products are on promotion?

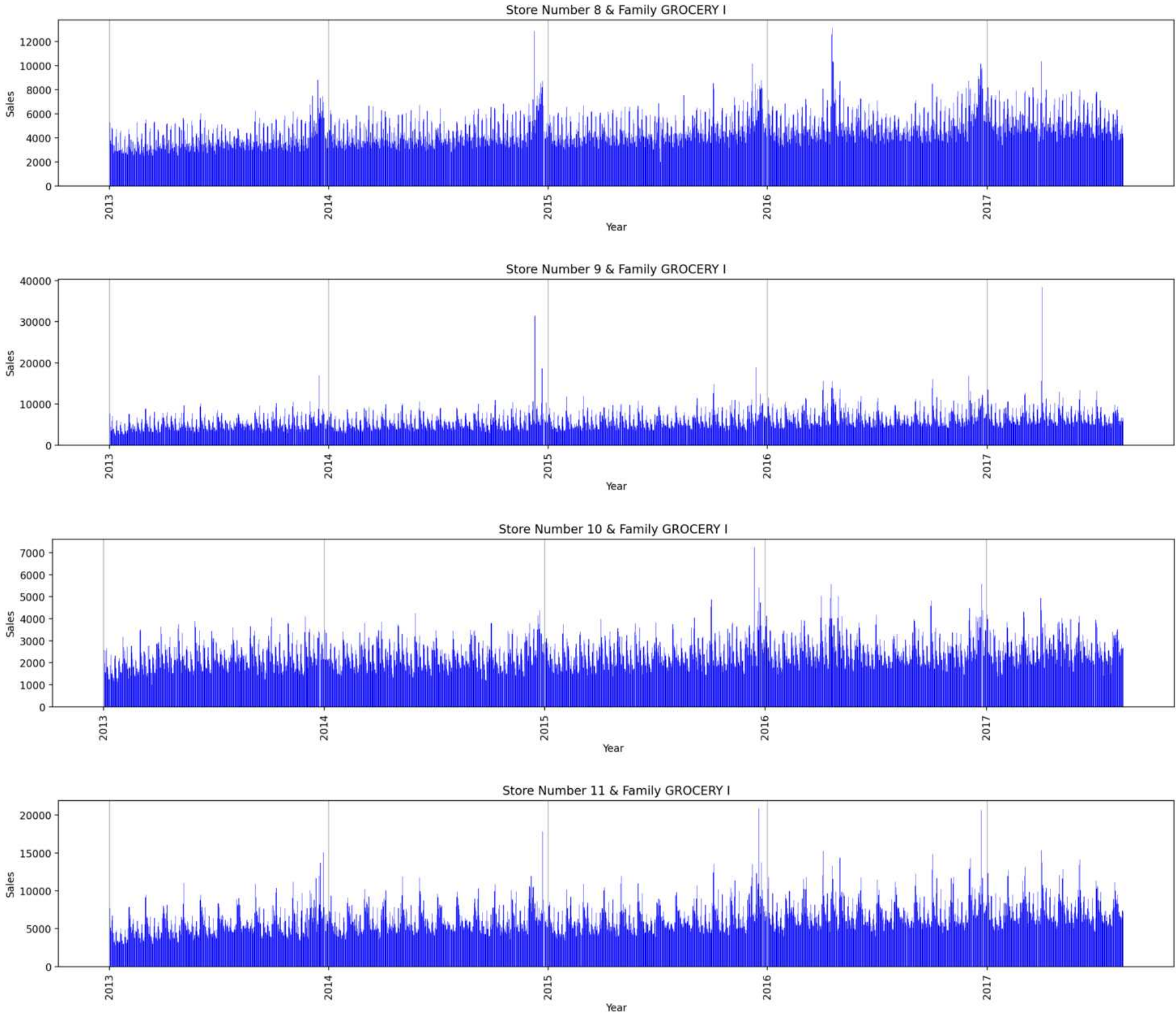
0

-

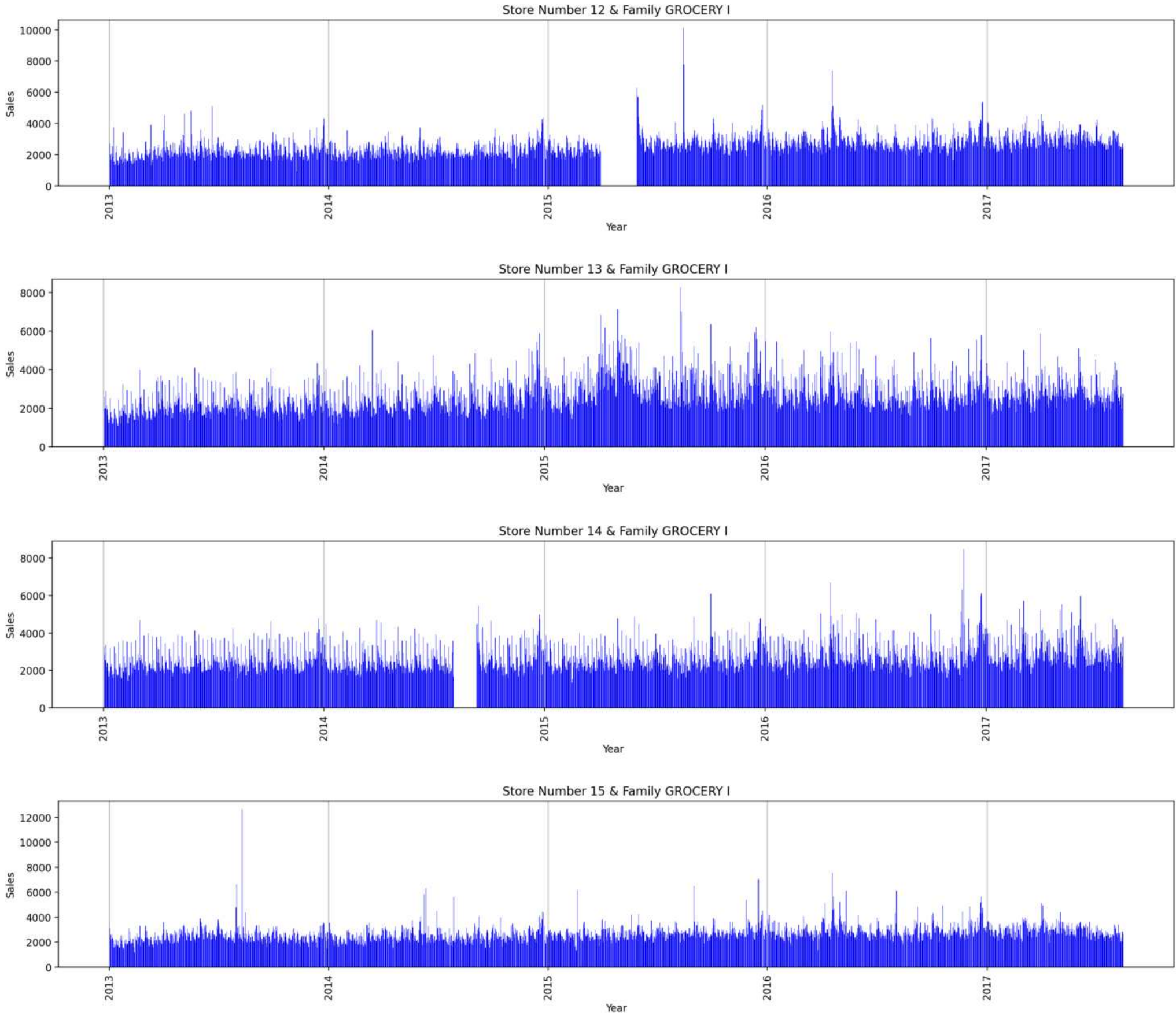
+

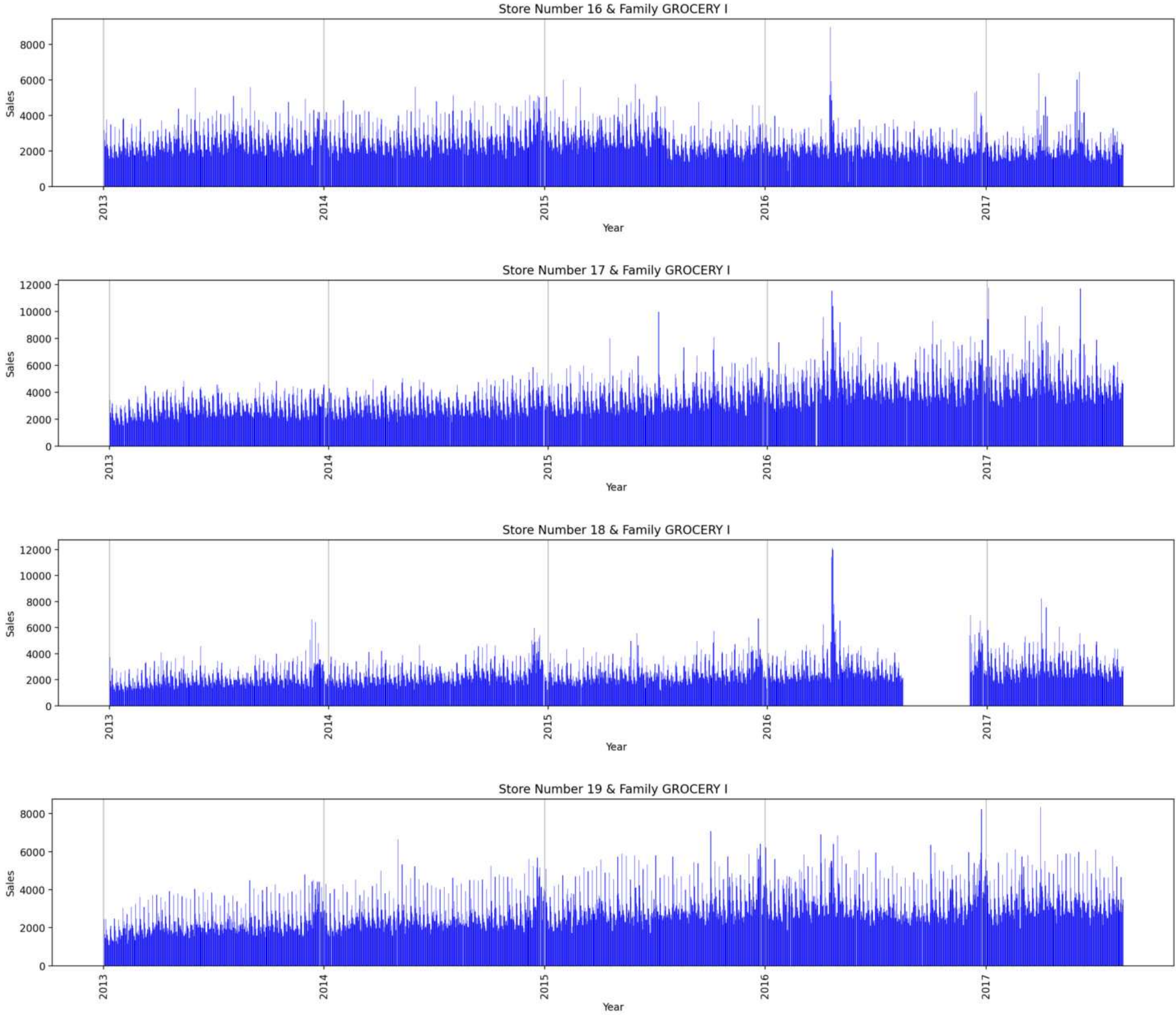


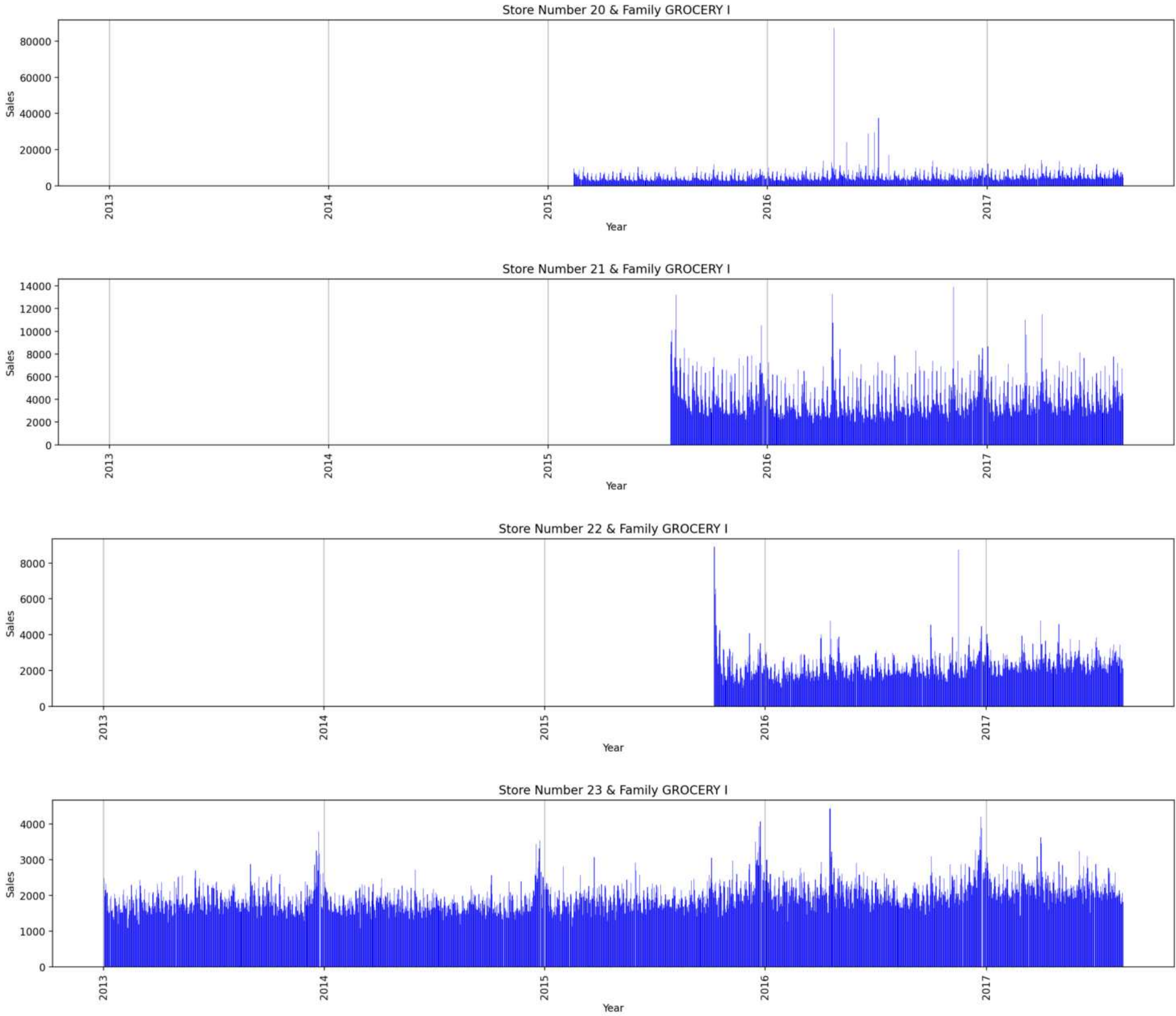




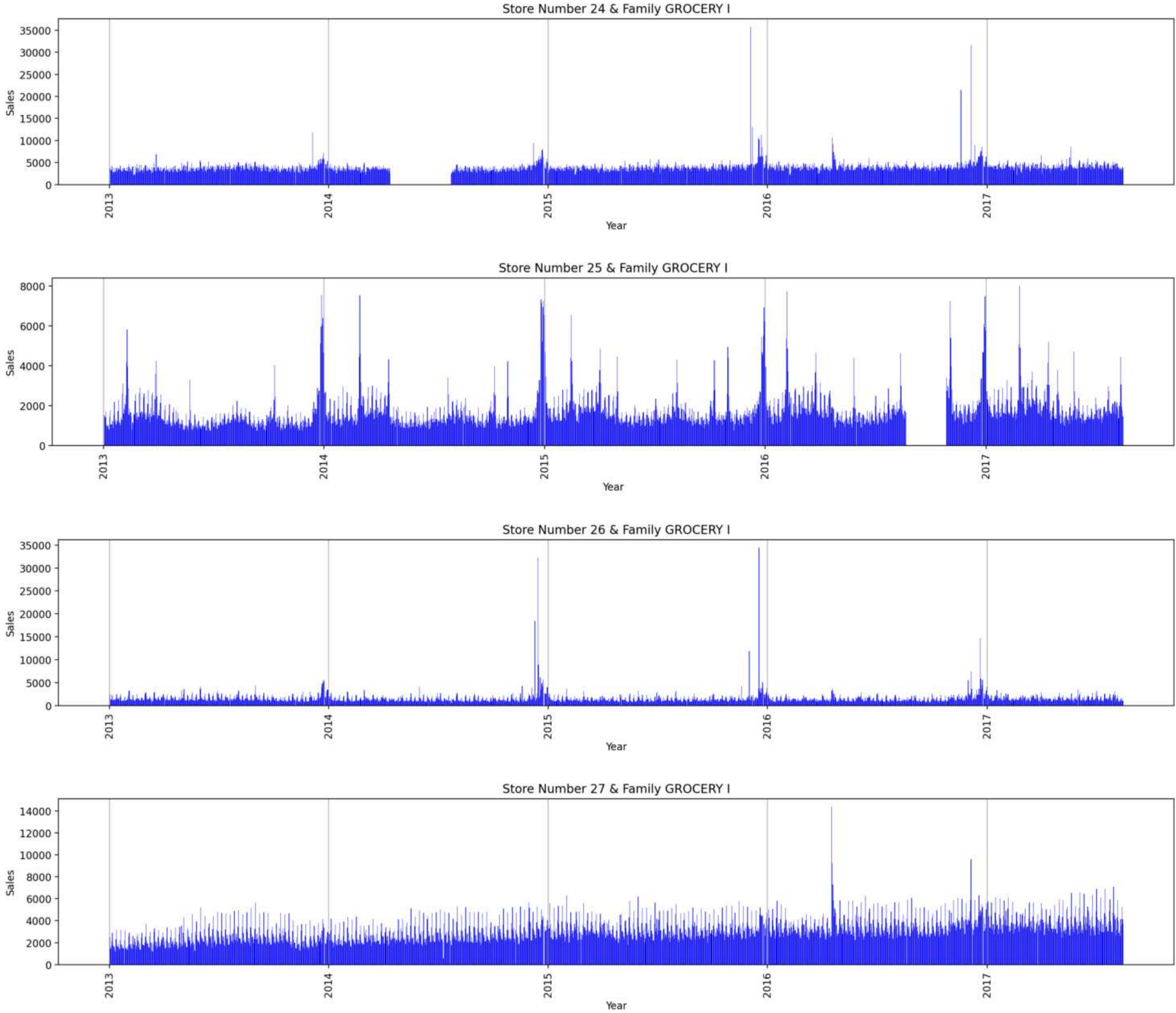


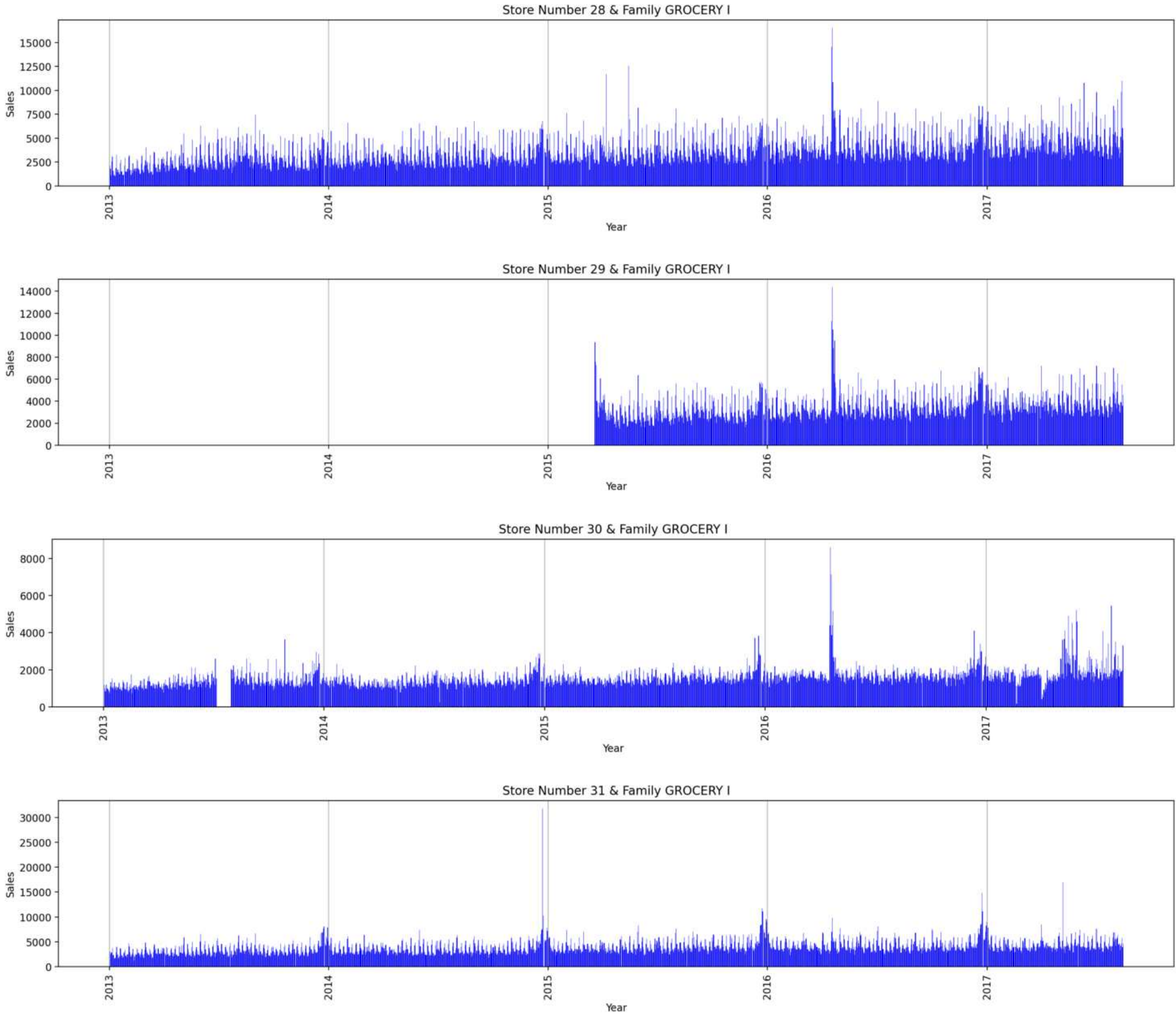




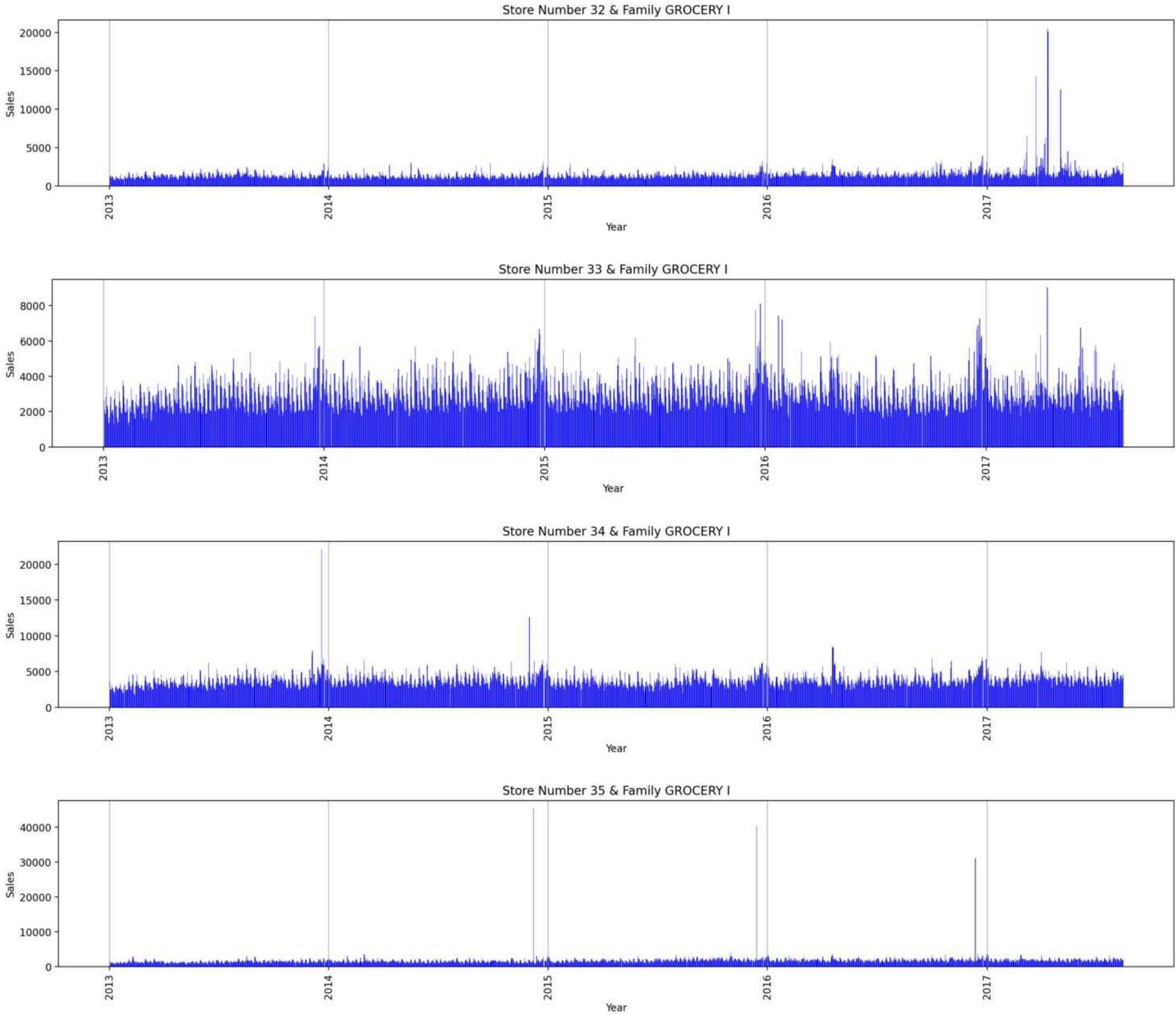


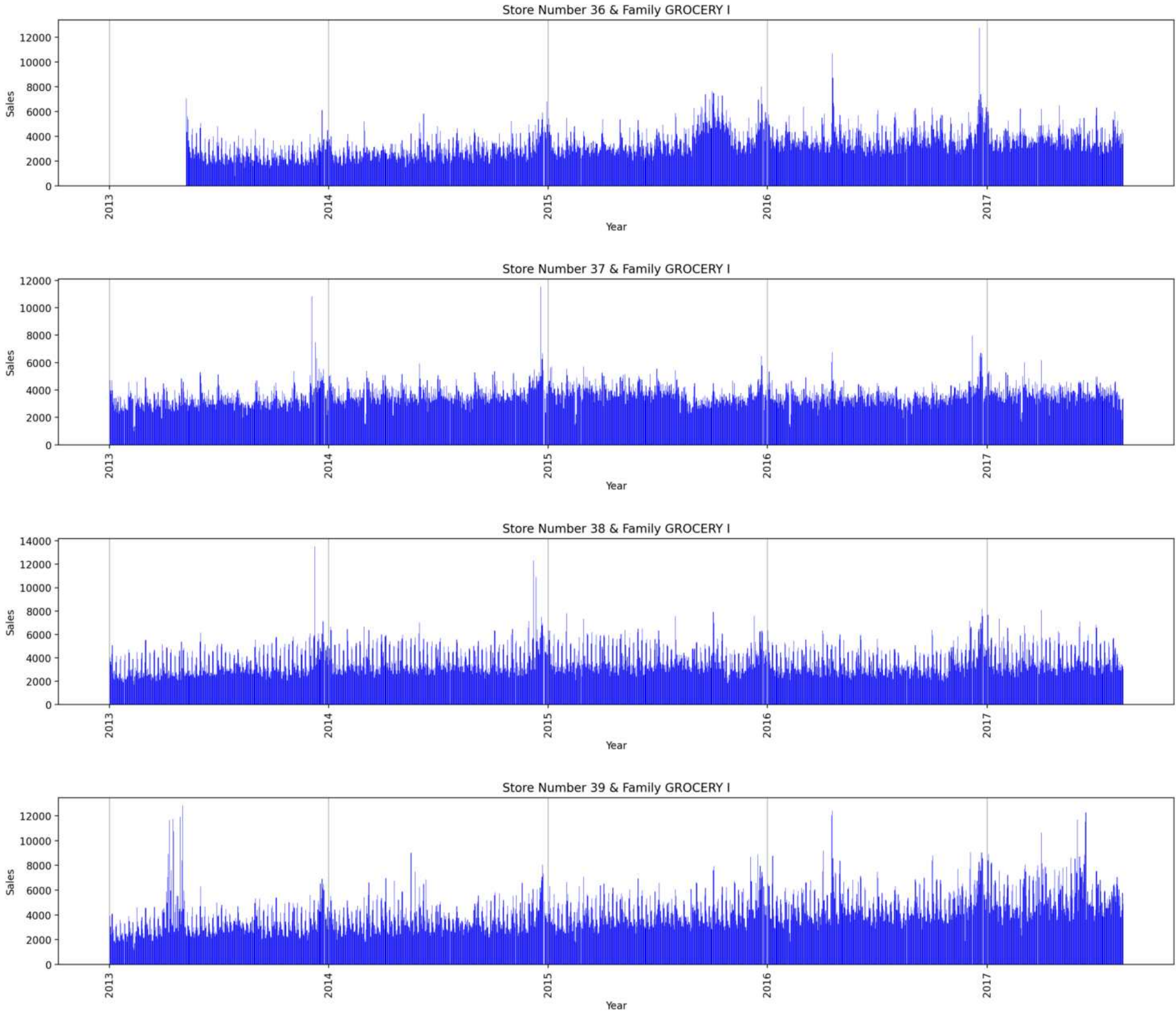


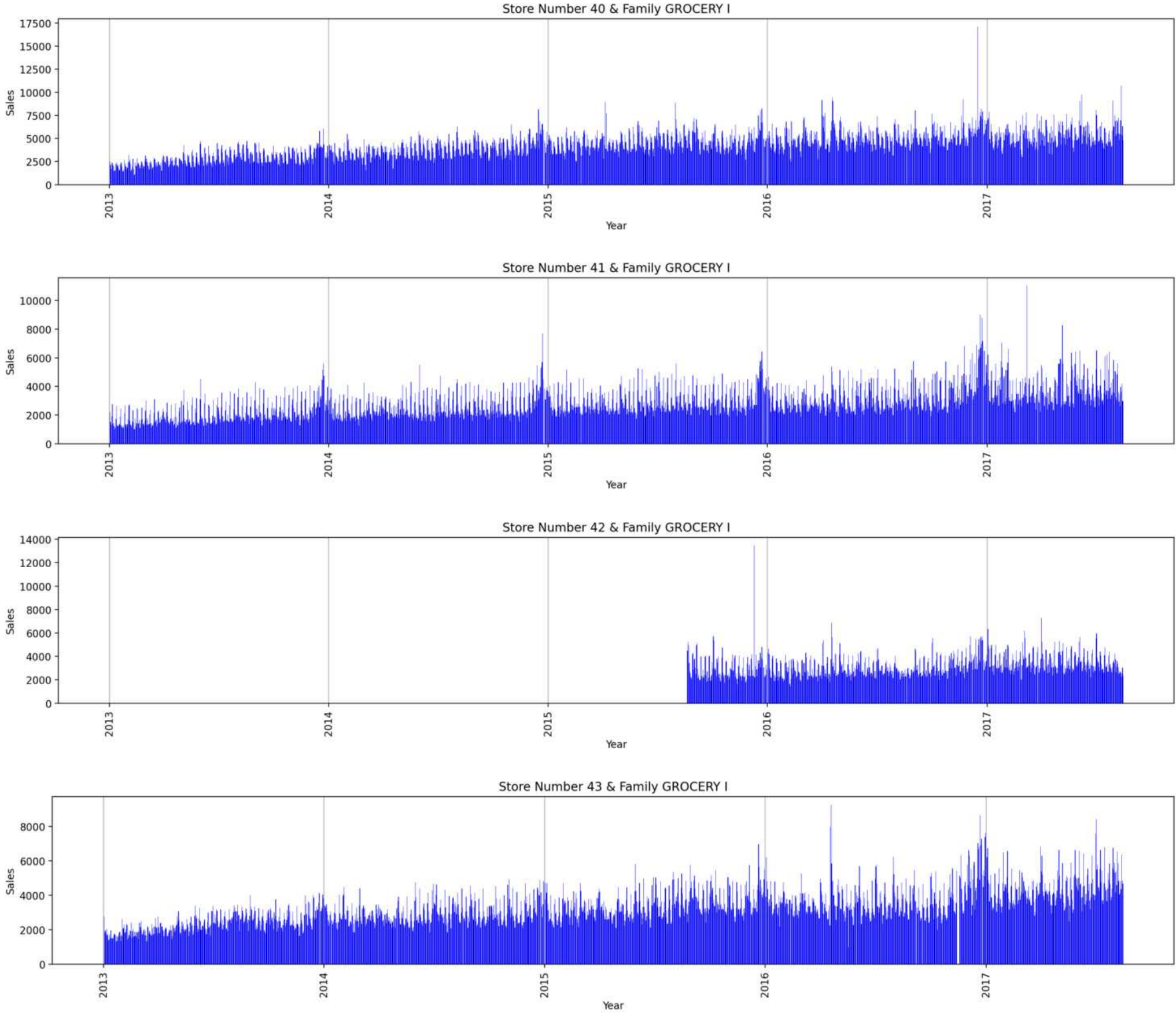




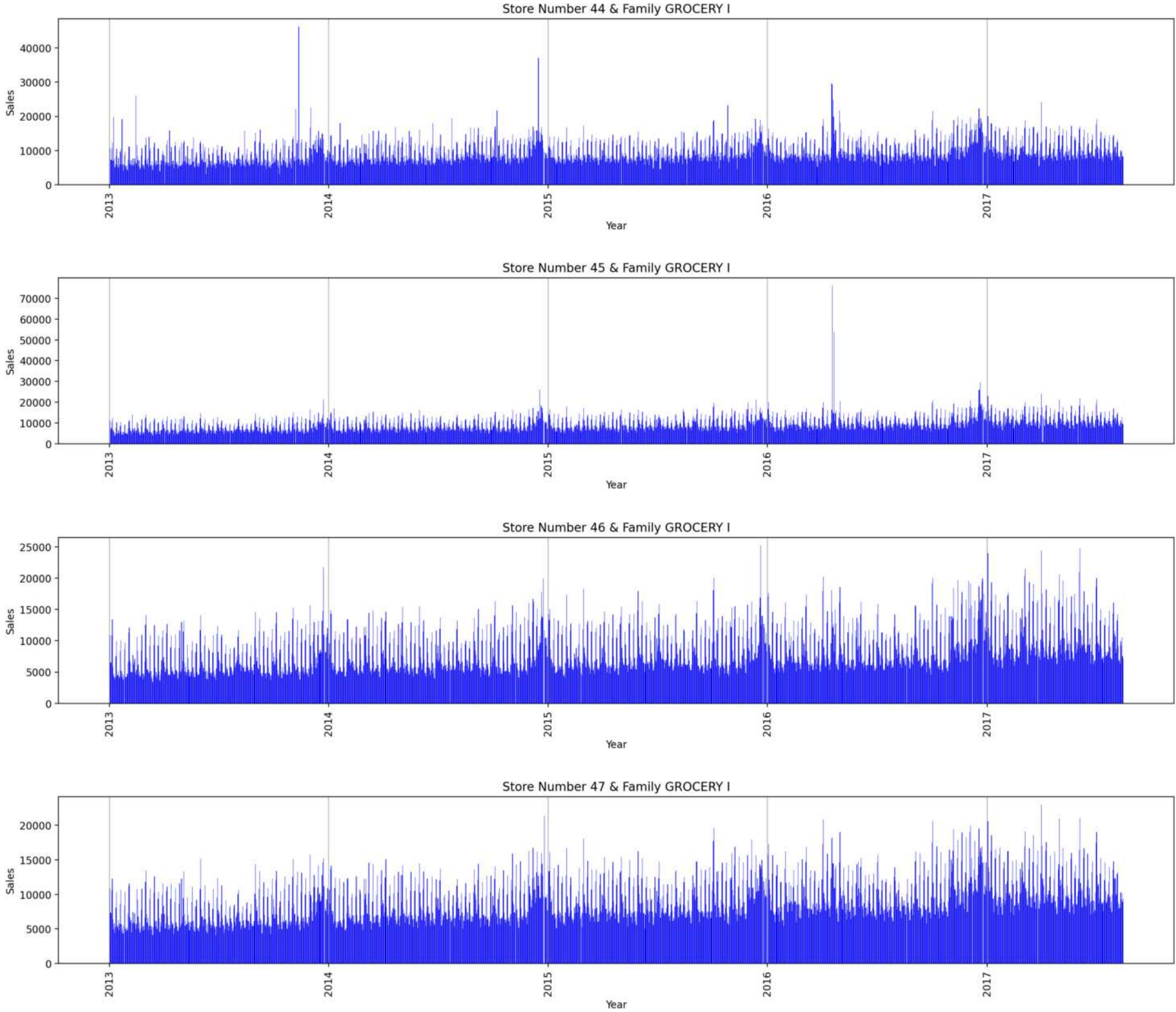


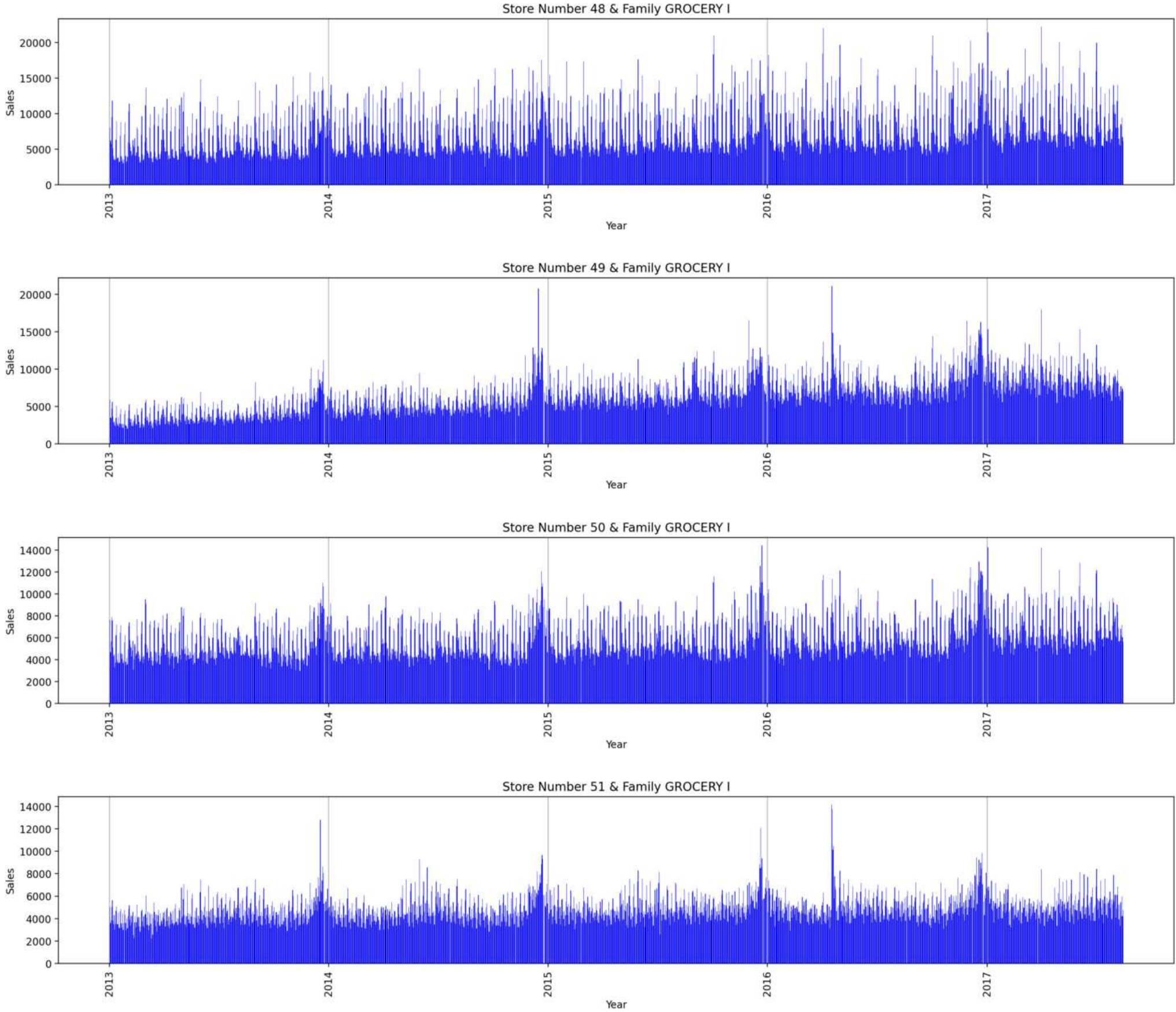


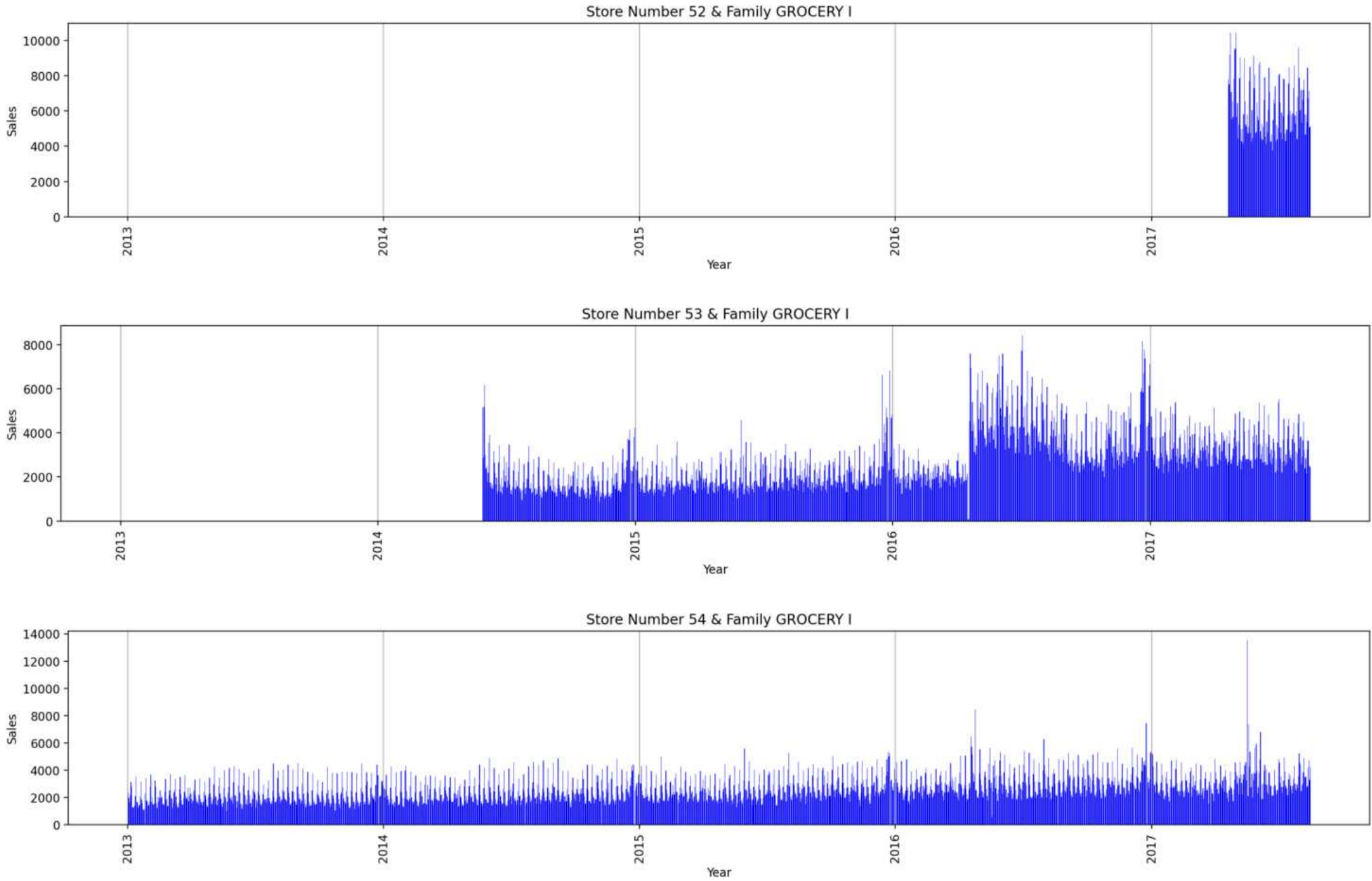










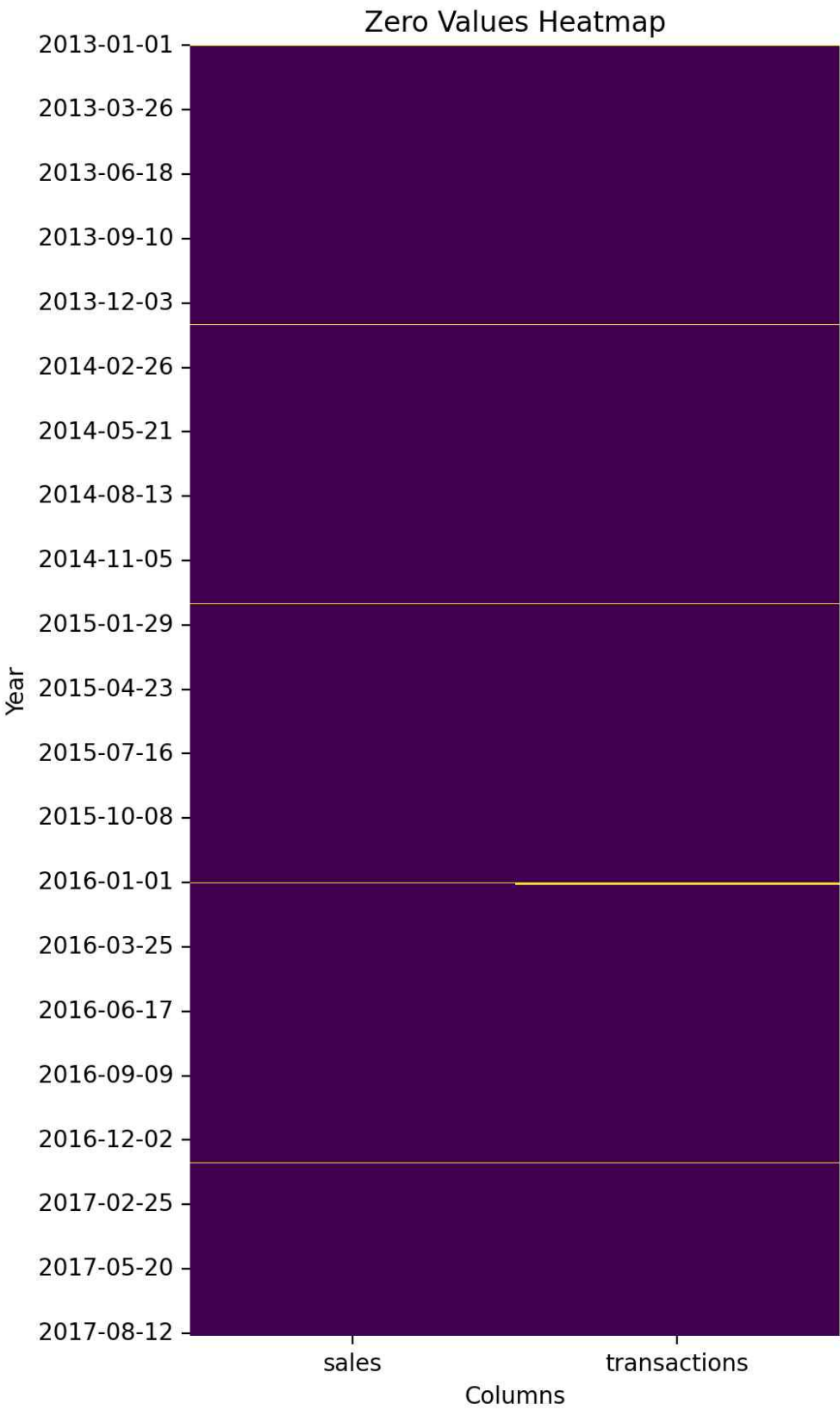


Missing Values: transactions & sales

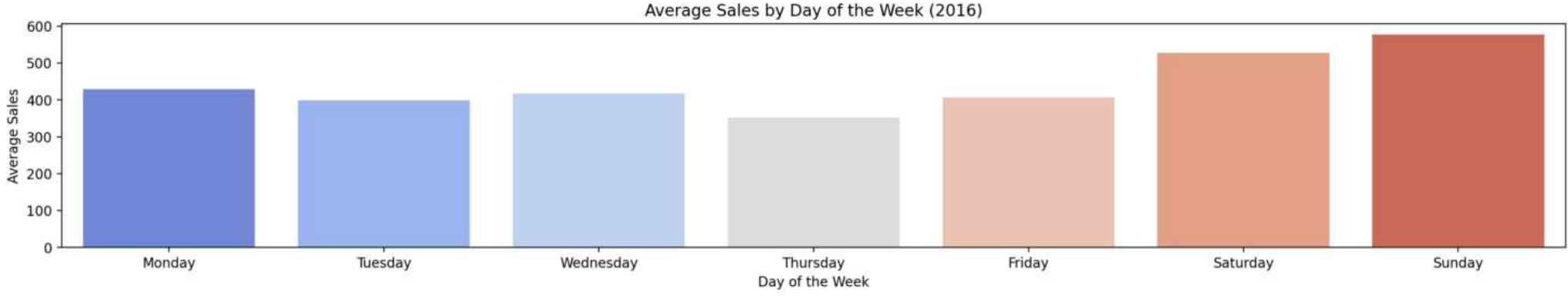
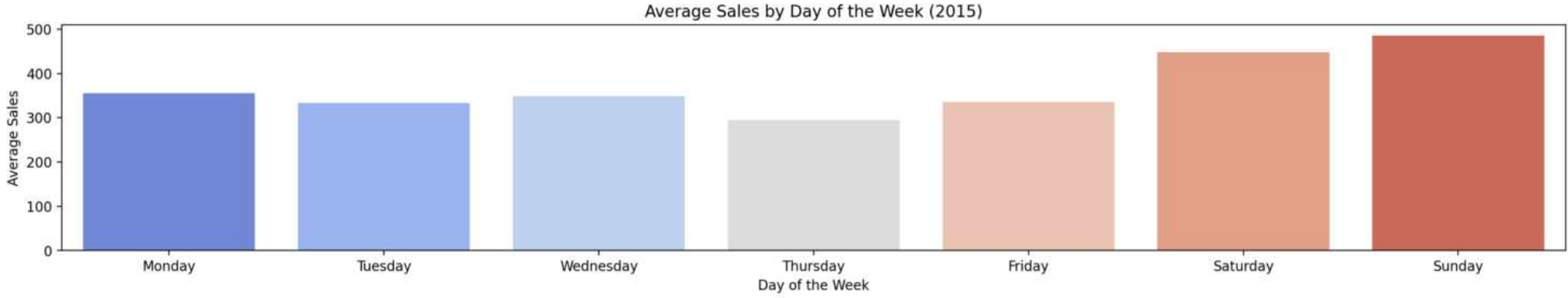
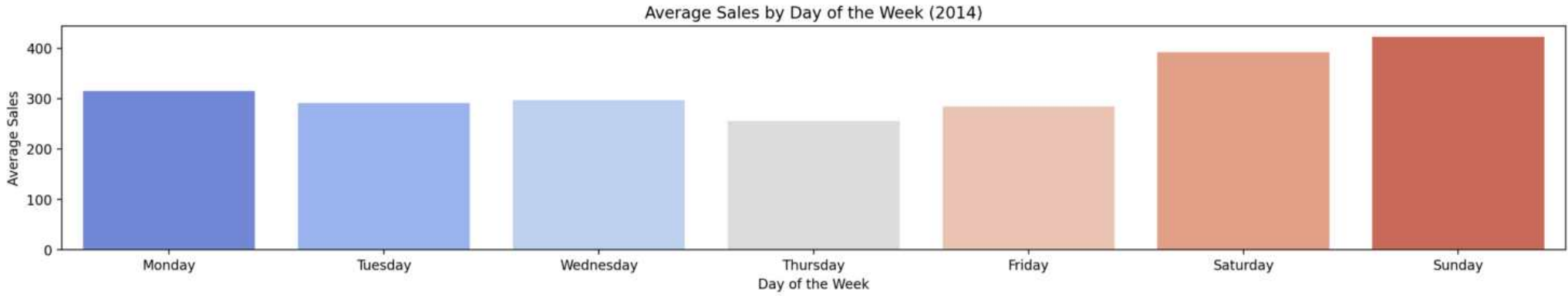
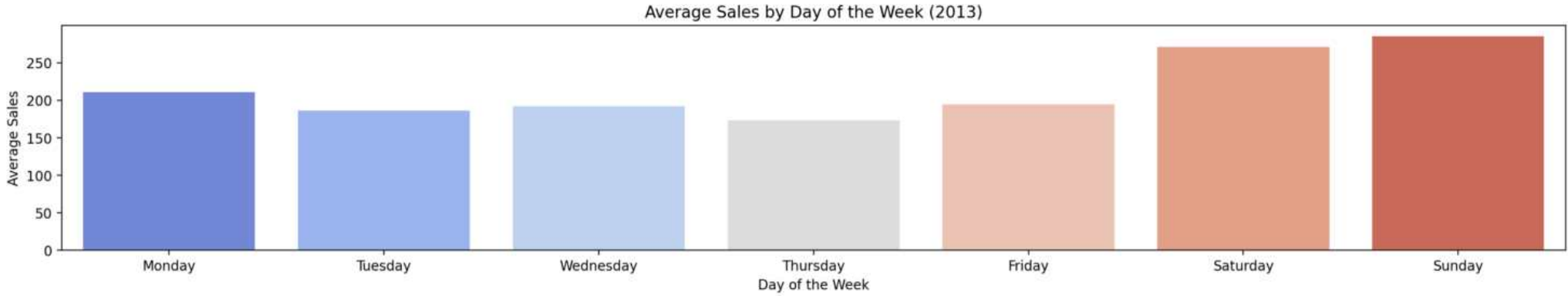


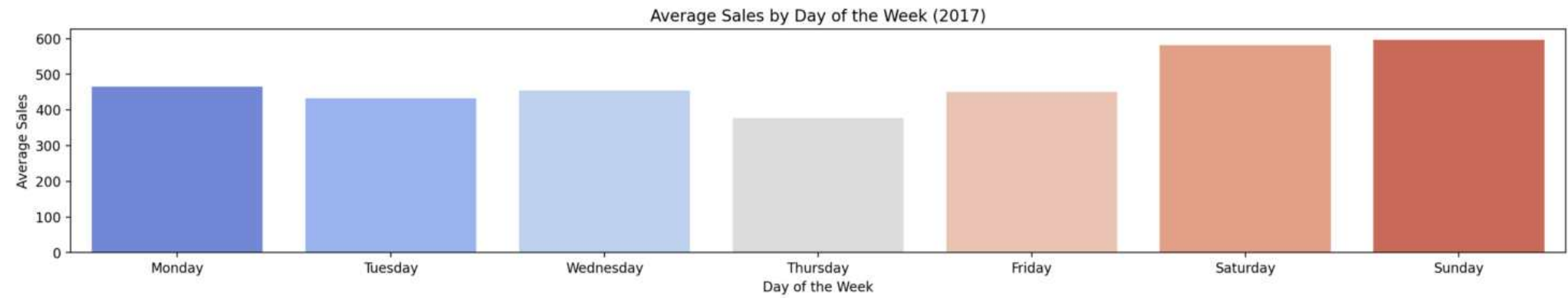
	date	store_nbr	transactions
0	2013-01-01 00:00:00	5	0
1	2013-01-02 00:00:00	5	1,903
2	2013-01-03 00:00:00	5	1,740
3	2013-01-04 00:00:00	5	1,642
4	2013-01-05 00:00:00	5	1,643
5	2013-01-06 00:00:00	5	1,754
6	2013-01-07 00:00:00	5	1,577
7	2013-01-08 00:00:00	5	1,504
8	2013-01-09 00:00:00	5	1,513
9	2013-01-10 00:00:00	5	1,449

The 5 store\_nbr takes 0 transactions for 4 days in 2016.



Average Sales by Day\_of\_week

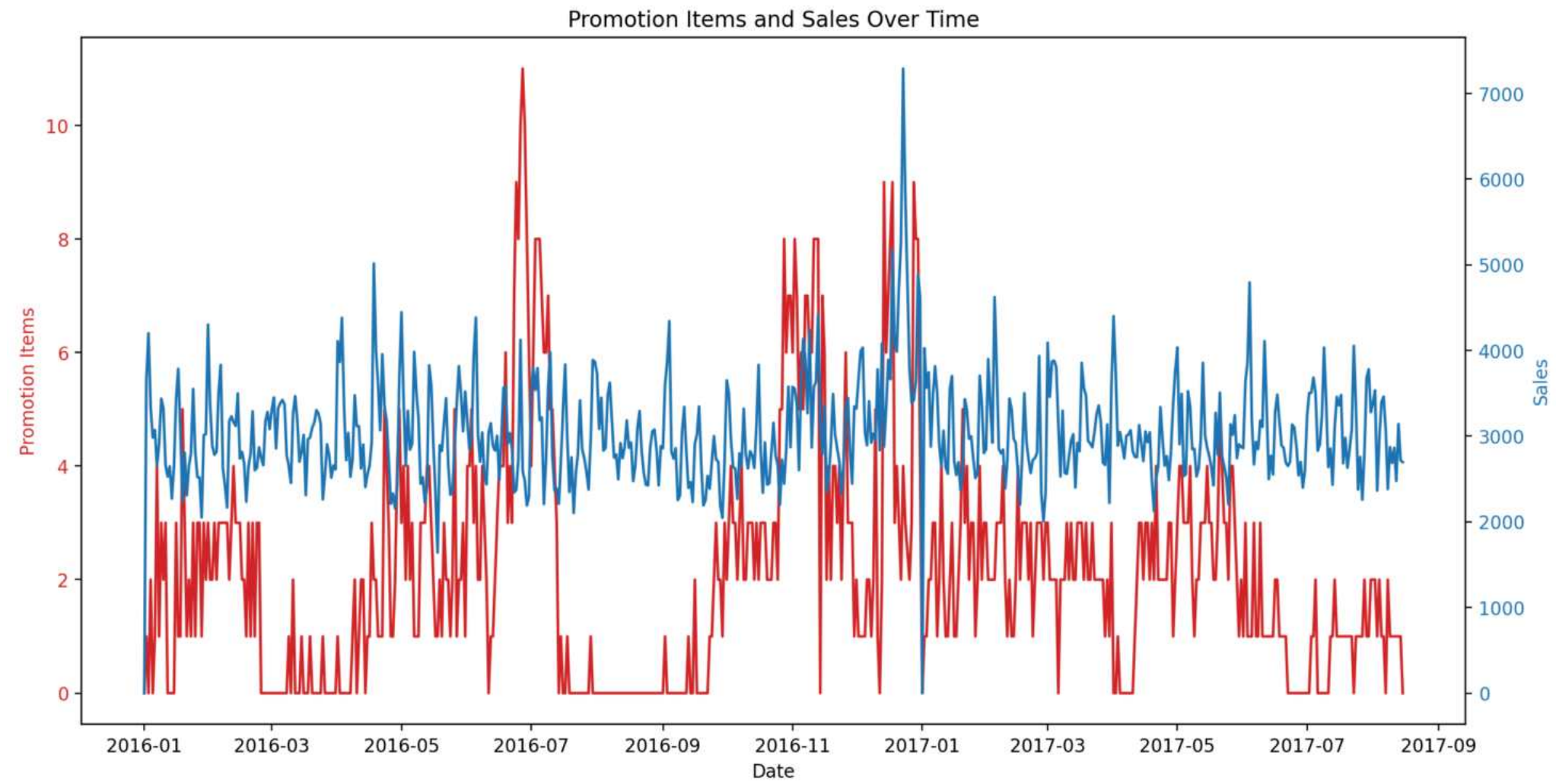




Corr : Number of Promotion-items & Sales

This data is for the years 2016 and 2017.

Correlation between promotion items and sales: 0.16283266954589118



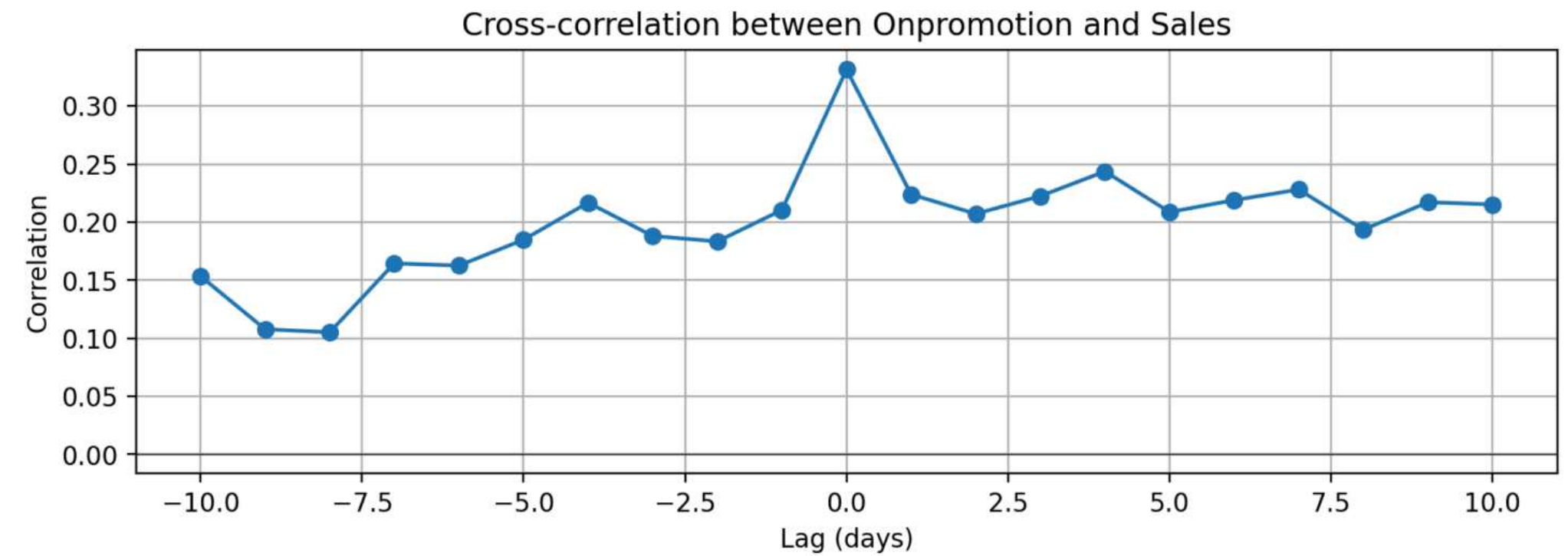
outlier detection with onpormotion

This red outlier is more than 4 standard deviations away from the mean.





lagging onpormotion



feature selection: corr heatmap

