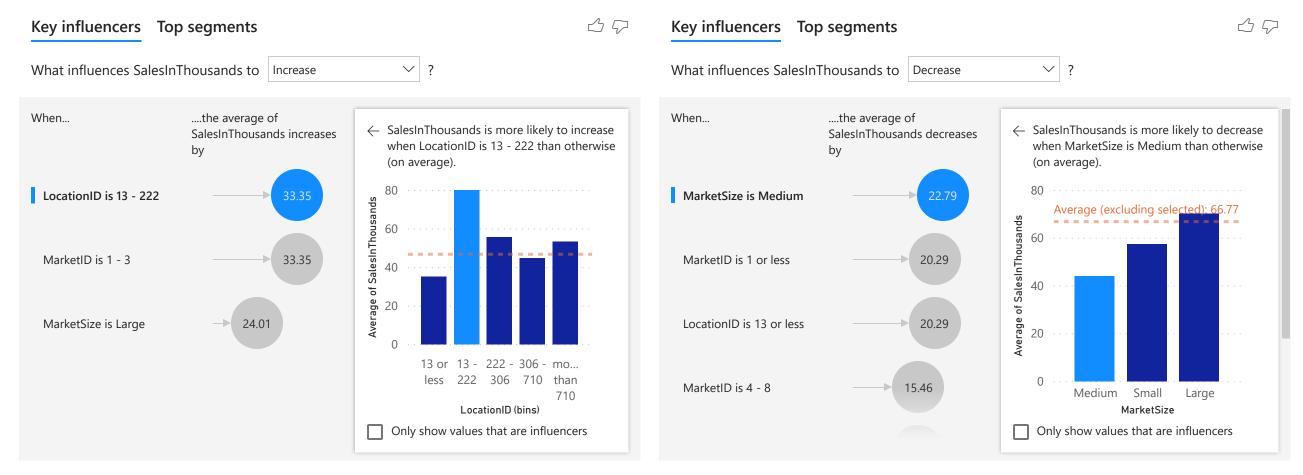
# **Fast Food Marketing Campaign**



A fast food chain carried out a marketing campaign A/B Test in which three promotions were tested.

A Key Influencers Test was performed as an exploratory data check prior to the full investigation.

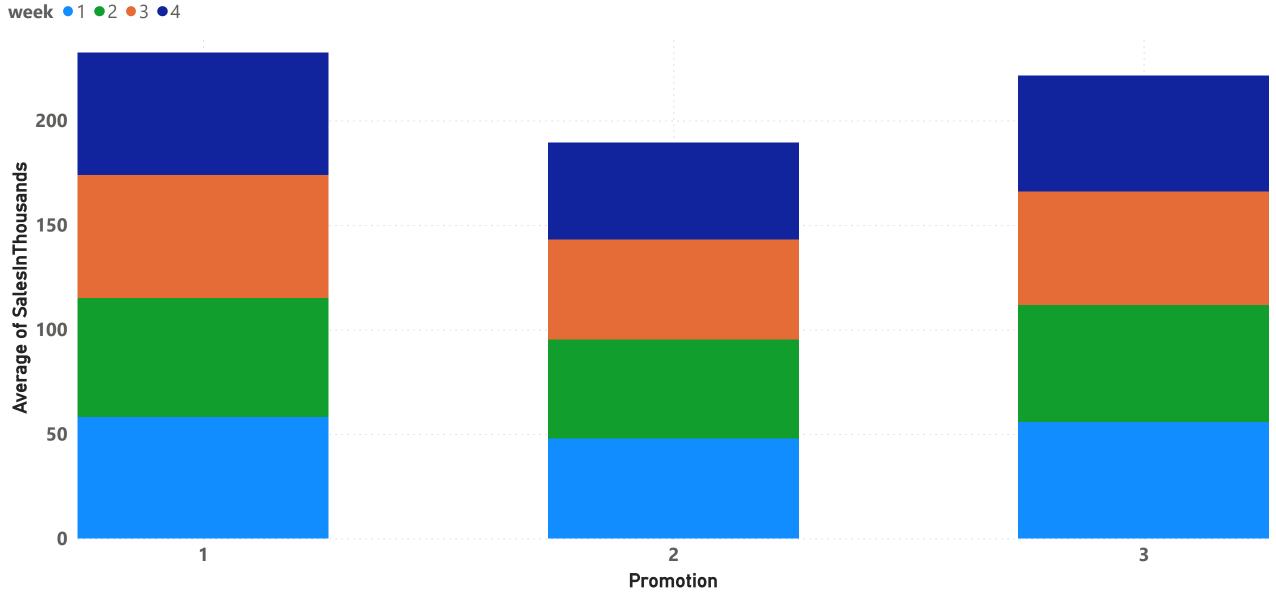


The biggest key influencers that increase average of Sales In Thousands are Location ID from 13 - 222 and Market ID from 1 -3 and Market Size is Large.

The biggest key influencers that <u>decrease</u> average of Sales In Thousands are Market Size is Medium and Market ID is 1 or less and Location ID is 13 or less.

The **Age of Stores** is <u>not a significant</u> **key influencer**.

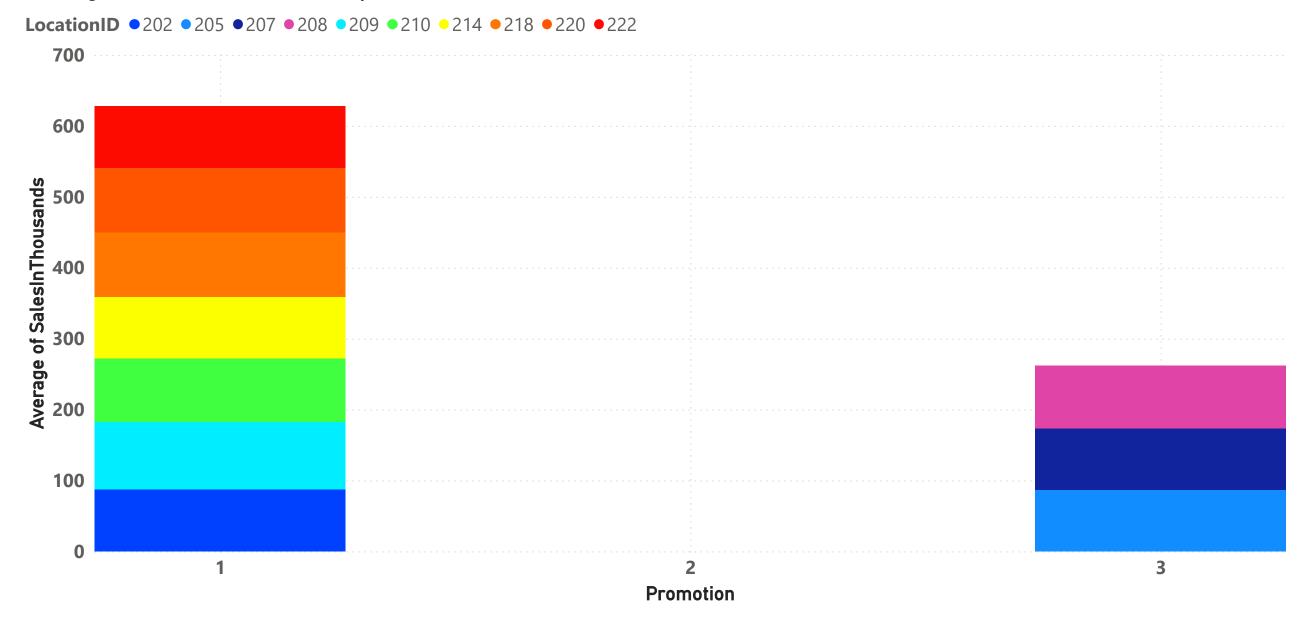
# Average of SalesInThousands by Promotion and week



Promotion 1 is the most effective across all weeks by Average of Sales in Thousands (Promotion 3 is almost as effective).

**Promotion 2** is the least effective across all weeks by Average of Sales in Thousands.

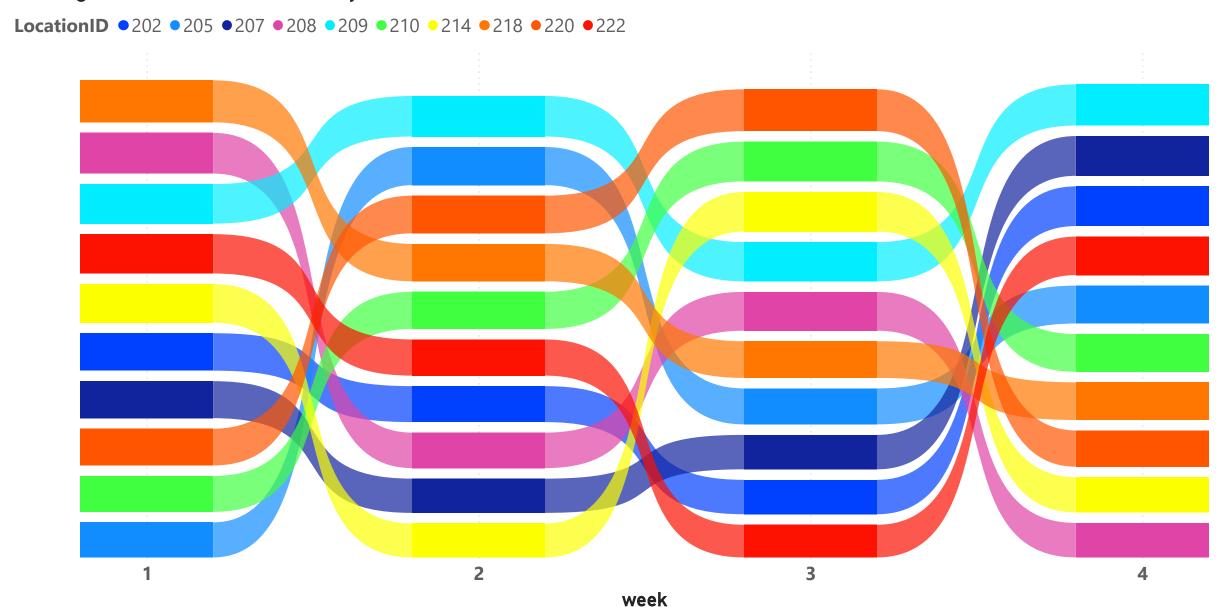
### Average of SalesInThousands by Promotion and LocationID



**Promotion 1** is the most effective in **7 of the top 10 stores** by Average of Sales in Thousands.

**Promotion 3** is the most effective in **3 of the top 10 stores** by Average of Sales in Thousands.

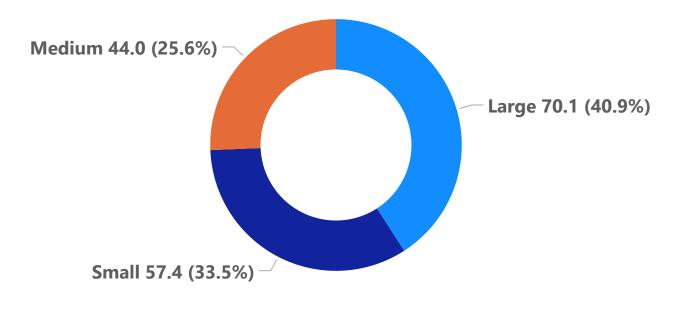
# Average of SalesInThousands by week and LocationID



**Location 209** is <u>among the highest</u> in Average Sales across weeks.

**Location 218** is <u>also among the highest</u>, but its relative Average Sales <u>go down every week</u>.

# (Average of SalesInThousands by MarketSize



Average of Sales in Thousands (From Greatest to Least)

**Large** > **Small** > **Medium** 

MarketSize

Large

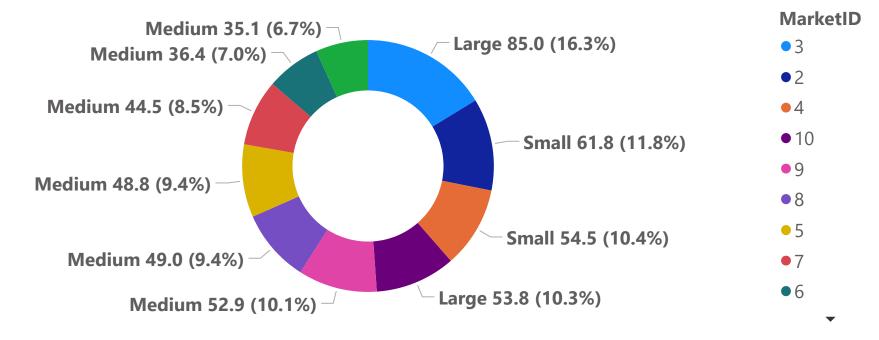
Small

Medium

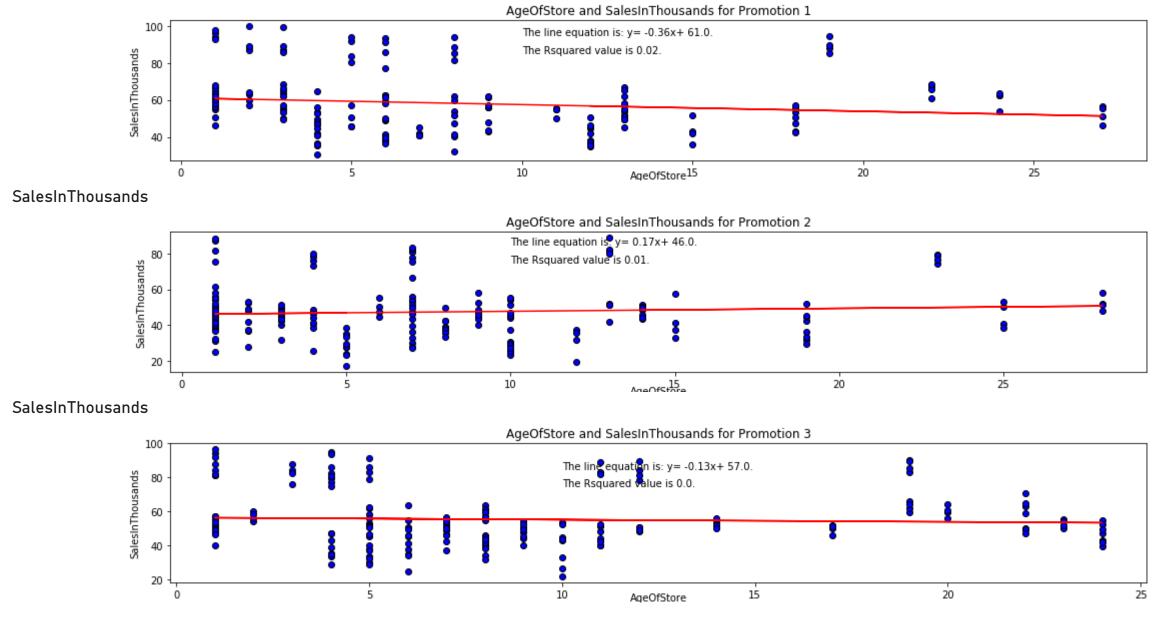
**Large** and **Small** Sized Markets consistently see higher average sales than **Medium** Sized Markets.

**Market ID 3** has the <u>highest average</u> sales by a wide margin.

#### Average of SalesInThousands by MarketID

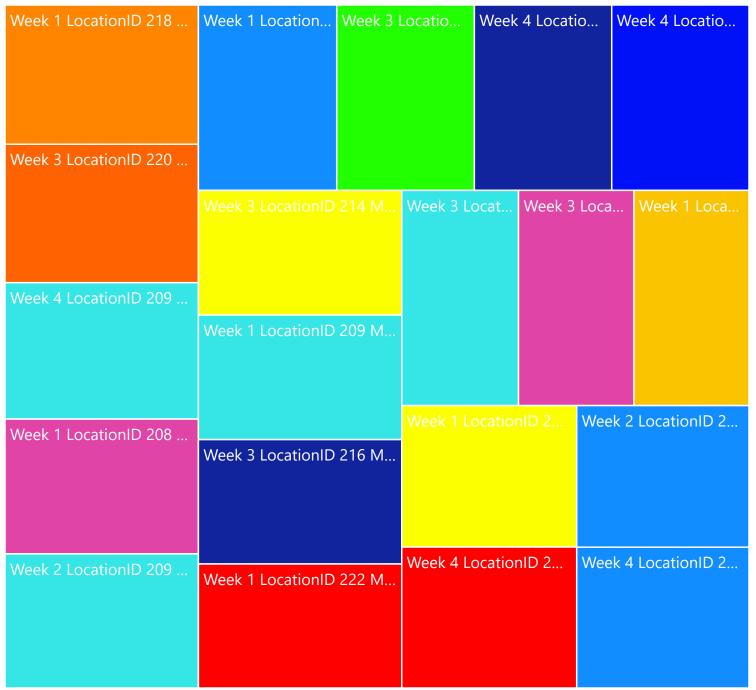


#### SalesInThousands



There is no correlation between Sales in Thousands and Age of Store for any of the Promotions.

#### Average of SalesInThousands by week-LocationID-MarketID



Weeks 1 & 3 had the most frequent occurrence in the Top 20 by average in Sales, as well as **Location 209**.

The most popular combinations by average of Sales in Thousands are:

- 1. Week 1 Location ID 218 Market ID 3
- 2. Week 3 Location ID 220 Market ID 3
- 3. Week 4 Location ID 209 Market ID 3
- 4. Week 1 Location ID 208 Market ID 3
- 5. Week 2 Location ID 209 Market ID 3

References

1. <u>https://www.kaggle.com/datasets/chebotinaa/fast-food-marketing-campaign-ab-test</u>

