

Data Analysis Of BrandX Retail Promoter Led Sales Promotions

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1. Introduction

A certain well known Indian Brand executed a promoter led activity in LFR stores in India. For confidentiality reasons, the brand has been renamed to BrandX.



2. Problem Statement

Brand X would like to :

- Crunch out numbers from the data
- Derive insights generated from the data
- Know where can the promotion can be carried out in the future and where it should be avoided to prevent losses
- Evaluate the factors affecting sales

3. Data Pre Processing

3.1 Import Packages

```
In [11]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

3.2 Import Data

```
In [12]: brandX_df=pd.read_excel("BRANDX Sales Test data.xls")
```

3.3 Data Preview

```
In [13]: brandX_df.head()
```

Out[13]:

| Sr No. | City | Store Name | Location | Date | People approached | BRANDX 60ML covering S/c | BRANDX 60ML Sold | BRANDX 60ML Lossing S/c | BRANDX 100ML covering S/c |
|--------|------|------------|----------------|-------------------------------------|-------------------|--------------------------|------------------|-------------------------|---------------------------|
| 0 | 1 | Mumbai | Reliance Smart | Malad 2019-03-22 00:00:00 | 54 | 14 | 12 | 2 | |
| 1 | 2 | Mumbai | Big Bazaar | Malad 2019-03-22 00:00:00 | 47 | 11 | 9 | 2 | |
| 2 | 3 | Mumbai | Star Hyper | Andheri 2019-03-22 00:00:00 | 49 | 34 | 5 | 29 | |
| 3 | 4 | Mumbai | Reliance Smart | Santacruz 2019-03-22 00:00:00 | 44 | 1 | 1 | 0 | |
| 4 | 5 | Mumbai | Big Bazaar | Matunga 2019-03-22 00:00:00 | 51 | 44 | 4 | 40 | |

3.4 Data Shape

In [14]: brandX_df.shape

Out[14]: (429, 14)

3.5 Data Description

In [15]: brandX_df.describe()

Out[15]:

| | Sr No. | BRANDX 60ML opening Stock | BRANDX 60ML Sold | BRANDX 60ML closing Stock | BRANDX 150ML opening Stock | BRANDX 150ML Sold | BRANDX 150ML closing Stock | B |
|--------------|------------|------------------------------------|---------------------|------------------------------------|-------------------------------------|-------------------------|-------------------------------------|-----|
| count | 429.000000 | 429.000000 | 429.000000 | 429.000000 | 429.000000 | 429.000000 | 429.000000 | 429 |
| mean | 300.200466 | 17.009324 | 4.351981 | 12.657343 | 20.766900 | 4.200466 | 16.552448 | 8 |
| std | 176.212838 | 22.132564 | 4.673411 | 20.361145 | 23.204228 | 4.478599 | 21.454041 | 7 |
| min | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0 |
| 25% | 160.000000 | 0.000000 | 0.000000 | 0.000000 | 6.000000 | 1.000000 | 1.000000 | 4 |
| 50% | 305.000000 | 12.000000 | 3.000000 | 4.000000 | 14.000000 | 3.000000 | 9.000000 | 7 |
| 75% | 404.000000 | 25.000000 | 6.000000 | 18.000000 | 27.000000 | 6.000000 | 23.000000 | 11 |
| max | 780.000000 | 167.000000 | 24.000000 | 154.000000 | 150.000000 | 31.000000 | 147.000000 | 45 |

3.6 Data Description

In [16]: brandX_df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 429 entries, 0 to 428
Data columns (total 14 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Sr No.            429 non-null    int64  
 1   City              429 non-null    object  
 2   Store Name        429 non-null    object  
 3   Location          429 non-null    object  
 4   Date              429 non-null    object  
 5   People Approached 429 non-null    object  
 6   BRANDX 60ML opening Stock 429 non-null    int64  
 7   BRANDX 60ML Sold   429 non-null    int64  
 8   BRANDX 60ML closing Stock 429 non-null    int64  
 9   BRANDX 150ML opening Stock 429 non-null    int64  
 10  BRANDX 150ML Sold   429 non-null    int64  
 11  BRANDX 150ML closing Stock 429 non-null    int64  
 12  Total BRANDX sold  429 non-null    int64  
 13  Remarks           429 non-null    object  
dtypes: int64(8), object(6)
memory usage: 47.0+ KB
```

Observations On Data Description

- Date not identified as date column
- People approached is not identified as a numbers column
- There is no missing data

3.7 Data Cleaning

3.7.1 Rectifying Errors In Data

```
In [18]: brandX_df["Date "] = pd.to_datetime(brandX_df["Date "], format="%Y-%m-%d %H:%M:%S")
```

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```

-----  

TypeError                                     Traceback (most recent call last)  

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\arrays\datetimes.py in  

objects_to_datetime64ns(data, dayfirst, yearfirst, utc, errors, require_iso86  

01, allow_object)
    1857         try:  

-> 1858             values, tz_parsed = conversion.datetime_to_datetime64(dat  

a)  

    1859             # If tzaware, these values represent unix timestamps, so  

we  
  

pandas\_libs\tslibs\conversion.pyx in pandas._libs.tslibs.conversion.datetime  

_to_datetime64()  


```

TypeError: Unrecognized value type: <class 'str'>

During handling of the above exception, another exception occurred:

```

ValueError                                     Traceback (most recent call last)  

<ipython-input-18-4078e832fb1e> in <module>  

---> 1 brandX_df["Date"] = pd.to_datetime(brandX_df["Date"], format="%Y-%m-%d  

%H:%M:%S")  
  

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\tools\datetimes.py in  

to_datetime(arg, errors, dayfirst, yearfirst, utc, format, exact, unit, infer  

_datetime_format, origin, cache)
    722         result = result.tz_localize(tz)
    723     elif isinstance(arg, ABCSeries):
-> 724         cache_array = _maybe_cache(arg, format, cache, convert_listli  

ke)
    725         if not cache_array.empty:
    726             result = arg.map(cache_array)  
  

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\tools\datetimes.py in  

_maybe_cache(arg, format, cache, convert_listlike)
    150     unique_dates = unique(arg)
    151     if len(unique_dates) < len(arg):
-> 152         cache_dates = convert_listlike(unique_dates, format)
    153         cache_array = Series(cache_dates, index=unique_dates)
    154     return cache_array  
  

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\tools\datetimes.py in  

_convert_listlike_datetimes(arg, format, name, tz, unit, errors, infer_dateti  

me_format, dayfirst, yearfirst, exact)
    438     assert format is None or infer_datetime_format
    439     utc = tz == "utc"
-> 440     result, tz_parsed = objects_to_datetime64ns(
    441         arg,
    442         dayfirst=dayfirst,  
  

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\arrays\datetimes.py in  

objects_to_datetime64ns(data, dayfirst, yearfirst, utc, errors, require_iso86  

01, allow_object)
    1861         return values.view("i8"), tz_parsed
    1862     except (ValueError, TypeError):
-> 1863         raise e
    1864

```

```

1865     if tz_parsed is not None:
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\arrays\datetimes.py in
objects_to_datetime64ns(data, dayfirst, yearfirst, utc, errors, require_iso86
01, allow_object)
1846
1847     try:
-> 1848         result, tz_parsed = tslib.array_to_datetime(
1849             data,
1850             errors=errors,
pandas\_libs\tslib.pyx in pandas._libs.tslib.array_to_datetime()
pandas\_libs\tslib.pyx in pandas._libs.tslib.array_to_datetime()
ValueError: time data 18-042019 doesn't match format specified

```

In [19]: brandX_df["Date "] = brandX_df["Date "].replace(["18-042019"], "2019-04-18 00:00:00")

In [20]: brandX_df["Date "] = pd.to_datetime(brandX_df["Date "], format="%Y-%m-%d %H:%M:%S")

In [21]: brandX_df["People Approached"] = pd.to_numeric(brandX_df["People Approached"])

```

-----
ValueError                                                 Traceback (most recent call last)
pandas\_libs\lib.pyx in pandas._libs.lib.maybe_convert_numeric()
ValueError: Unable to parse string ``42``
```

During handling of the above exception, another exception occurred:

```

ValueError                                                 Traceback (most recent call last)
<ipython-input-21-4e0c3ff600a3> in <module>
----> 1 brandX_df["People Approached"] = pd.to_numeric(brandX_df["People Approa
ched"])

```

```

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\tools\numeric.py in to
_numeric(arg, errors, downcast)
    147         coerce_numeric = errors not in ("ignore", "raise")
    148         try:
--> 149             values = lib.maybe_convert_numeric(
    150                 values, set(), coerce_numeric=coerce_numeric
    151             )

```

```
pandas\_libs\lib.pyx in pandas._libs.lib.maybe_convert_numeric()
```

```
ValueError: Unable to parse string ``42'' at position 204
```

In [22]: brandX_df["People Approached"] = brandX_df["People Approached"].replace(["`42"], "42")

```
In [23]: brandX_df["People Approached"] = pd.to_numeric(brandX_df["People Approached"])
brandX_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 429 entries, 0 to 428
Data columns (total 14 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Sr No.          429 non-null    int64  
 1   City             429 non-null    object  
 2   Store Name       429 non-null    object  
 3   Location         429 non-null    object  
 4   Date             429 non-null    datetime64[ns]
 5   People Approached 429 non-null    int64  
 6   BRANDX 60ML opening Stock 429 non-null    int64  
 7   BRANDX 60ML Sold      429 non-null    int64  
 8   BRANDX 60ML closing Stock 429 non-null    int64  
 9   BRANDX 150ML opening Stock 429 non-null    int64  
 10  BRANDX 150ML Sold      429 non-null    int64  
 11  BRANDX 150ML closing Stock 429 non-null    int64  
 12  Total BRANDX sold     429 non-null    int64  
 13  Remarks          429 non-null    object  
dtypes: datetime64[ns](1), int64(9), object(4)
memory usage: 47.0+ KB
```

```
In [24]: brandX_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 429 entries, 0 to 428
Data columns (total 14 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Sr No.          429 non-null    int64  
 1   City             429 non-null    object  
 2   Store Name       429 non-null    object  
 3   Location         429 non-null    object  
 4   Date             429 non-null    datetime64[ns]
 5   People Approached 429 non-null    int64  
 6   BRANDX 60ML opening Stock 429 non-null    int64  
 7   BRANDX 60ML Sold      429 non-null    int64  
 8   BRANDX 60ML closing Stock 429 non-null    int64  
 9   BRANDX 150ML opening Stock 429 non-null    int64  
 10  BRANDX 150ML Sold      429 non-null    int64  
 11  BRANDX 150ML closing Stock 429 non-null    int64  
 12  Total BRANDX sold     429 non-null    int64  
 13  Remarks          429 non-null    object  
dtypes: datetime64[ns](1), int64(9), object(4)
memory usage: 47.0+ KB
```

Observations:

- Data has been cleaned and formatted

4. Data Analysis

4.1 Adding Month and Day Columns

```
In [26]: brandX_df["Month"] = brandX_df["Date "].dt.month_name()
brandX_df["Day"] = brandX_df["Date "].dt.day_name()
brandX_df.head()
```

Out[26]:

| Sr No. | City | Store Name | Location | Date | People Approached | BRANDX 60ML opening Stock | BRANDX 60ML Sold | BRANDX 60ML closing Stock | BRANDX 150ML opening Stock |
|--------|----------|----------------|-----------|------------|-------------------|---------------------------|------------------|---------------------------|----------------------------|
| 0 | 1 Mumbai | Reliance Smart | Malad | 2019-03-22 | 54 | 14 | 12 | 2 | 11 |
| 1 | 2 Mumbai | Big Bazaar | Malad | 2019-03-22 | 47 | 11 | 9 | 2 | 8 |
| 2 | 3 Mumbai | Star Hyper | Andheri | 2019-03-22 | 49 | 34 | 5 | 29 | 6 |
| 3 | 4 Mumbai | Reliance Smart | Santacruz | 2019-03-22 | 44 | 1 | 1 | 0 | 8 |
| 4 | 5 Mumbai | Big Bazaar | Matunga | 2019-03-22 | 51 | 44 | 4 | 40 | 44 |

4.2 Analyze Total Number Of Days Of Promotion

```
In [85]: print("The total number of days of promotion:")
brandX_df["Day"].nunique()
```

The total number of days of promotion:

Out[85]: 7

```
In [86]: print("The total number of days of promotion:")
brandX_df["Day"].unique()
```

The total number of days of promotion:

```
Out[86]: array(['Friday', 'Saturday', 'Sunday', 'Tuesday', 'Wednesday', 'Thursday',
       'Monday'], dtype=object)
```

```
In [87]: print("The total number of months of promotion:")
brandX_df["Month"].unique()
```

The total number of months of promotion:

```
Out[87]: array(['March', 'April', 'May'], dtype=object)
```

```
In [88]: print("The total number of months of promotion:")
brandX_df["Month"].nunique()
```

The total number of months of promotion:

```
Out[88]: 3
```

Observations:

- The promotion was run for 3 months (March, April and May)
- It was run for all 7 days of the week

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4.3 Check Total Number Of Locations

```
In [89]: print("The total number of cities of promotion:")
brandX_df["City"].unique()
```

The total number of cities of promotion:

```
Out[89]: array(['Mumbai', 'Pune'], dtype=object)
```

```
In [90]: print("The total number of cities of promotion:")
brandX_df["City"].nunique()
```

The total number of cities of promotion:

```
Out[90]: 2
```

```
In [91]: print("The total number of locations of promotion:")
brandX_df["Location"].unique()
```

The total number of locations of promotion:

```
Out[91]: array(['Malad', 'Andheri', 'Santacruz', 'Matunga', 'Vashi', 'Thane',
       'Kharadi', 'Magarpatta', 'Chinchwad', 'Kothrud', 'Ghatkopar',
       'Powai', 'Aundh', 'Kurla'], dtype=object)
```

```
In [92]: print("The total number of locations of promotion:")
brandX_df["Location"].nunique()
```

The total number of locations of promotion:

```
Out[92]: 14
```

```
In [93]: print("The total number of Stores of promotion:")
brandX_df["Store Name"].unique()
```

The total number of Stores of promotion:

```
Out[93]: array(['Reliance Smart', 'Big Bazaar', 'Star Hyper', 'Haiko',
       'ABRL Hyper'], dtype=object)
```

```
In [94]: print("The total number of Stores of promotion:")
brandX_df["Store Name"].nunique()
```

The total number of Stores of promotion:

```
Out[94]: 5
```

Observations:

- The promotion was run in 2 cities: Mumbai and Pune
- It was run in a total of 14 locations : 'Malad', 'Andheri', 'Santacruz', 'Matunga', 'Vashi', 'Thane', 'Kharadi', 'Magarpatta', 'Chinchwad', 'Kothrud', 'Ghatkopar', 'Powai', 'Aundh', 'Kandivali'
- It was run in 5 major stores : 'Reliance Smart', 'Big Bazaar', 'Star Hyper', 'Haiko', 'ABRL Hyper'

4.4 Analyze Total Sales

```
In [37]: print("The total sales:")
brandX_df["Total BRANDX sold"].sum()
```

The total sales:

```
Out[37]: 3669
```

```
In [38]: print("The average sales:")
brandX_df["Total BRANDX sold"].mean()
```

The average sales:

```
Out[38]: 8.552447552447552
```

```
In [95]: print("The median sales:")
brandX_df[ "Total BRANDX sold"].median()
```

The median sales:

```
Out[95]: 7.0
```

4.5 Check Bifurcated Sales

4.5.1 Check Total Sales City Wise

```
In [40]: brandX_dfCityGroup=brandX_df.groupby( "City")
```

```
In [41]: brandXMumbai = brandX_dfCityGroup.get_group( "Mumbai")
print("The total sales in Mumbai:")
brandXMumbai[ "Total BRANDX sold"].sum()
```

The total sales in Mumbai:

```
Out[41]: 2603
```

```
In [42]: print("The average sales in Mumbai:")
brandXMumbai[ "Total BRANDX sold"].mean()
```

The average sales in Mumbai:

```
Out[42]: 8.676666666666666
```

```
In [43]: brandXPune = brandX_dfCityGroup.get_group( "Pune")
print("The total sales in Pune:")
brandXPune[ "Total BRANDX sold"].sum()
```

The total sales in Pune:

```
Out[43]: 1066
```

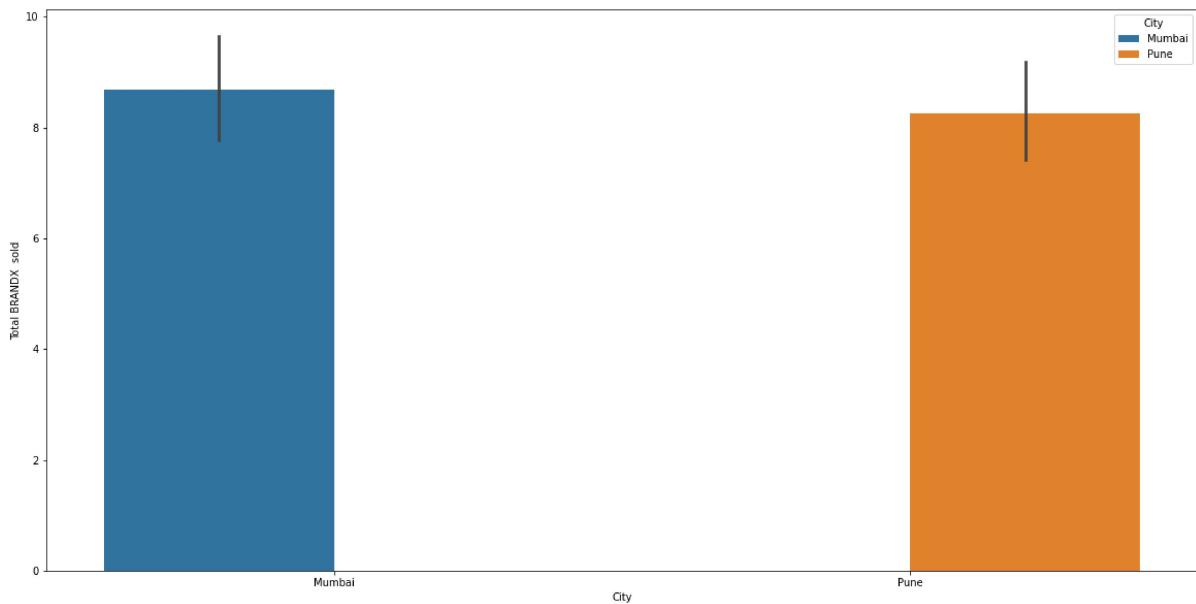
```
In [44]: print("The average sales in Pune:")
brandXPune[ "Total BRANDX sold"].mean()
```

The average sales in Pune:

```
Out[44]: 8.263565891472869
```

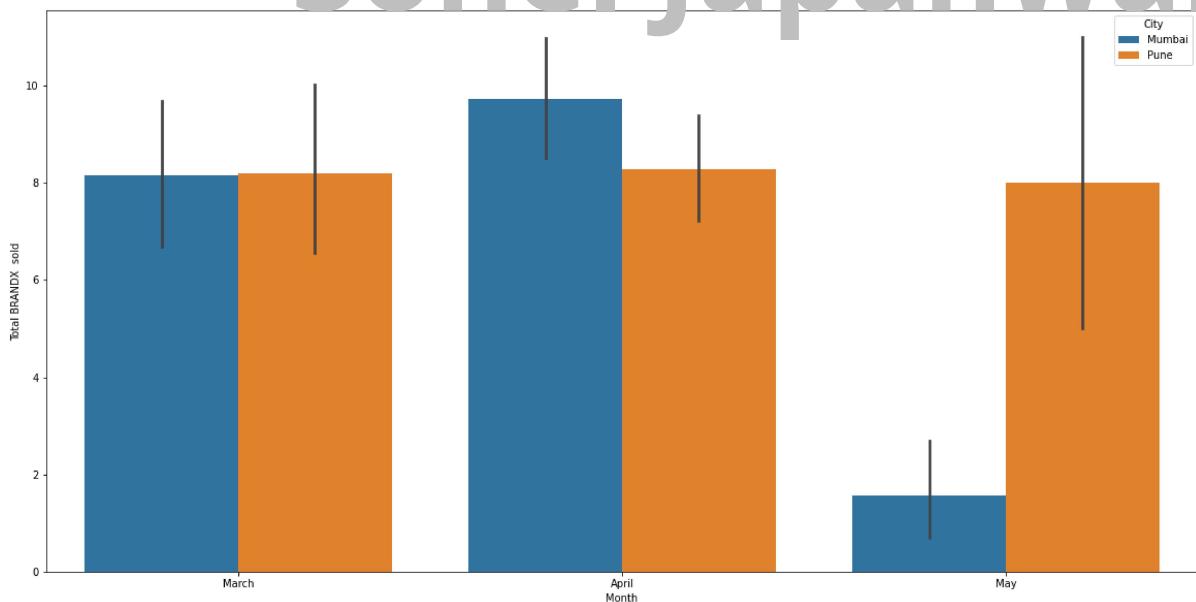
```
In [75]: plt.figure(figsize=(20,10))
sns.barplot(y=brandX_df["Total BRANDX sold"], x=brandX_df["City"], hue=brandX_df["City"], dodge=True)
```

Out[75]: <matplotlib.axes._subplots.AxesSubplot at 0x1e4445db760>



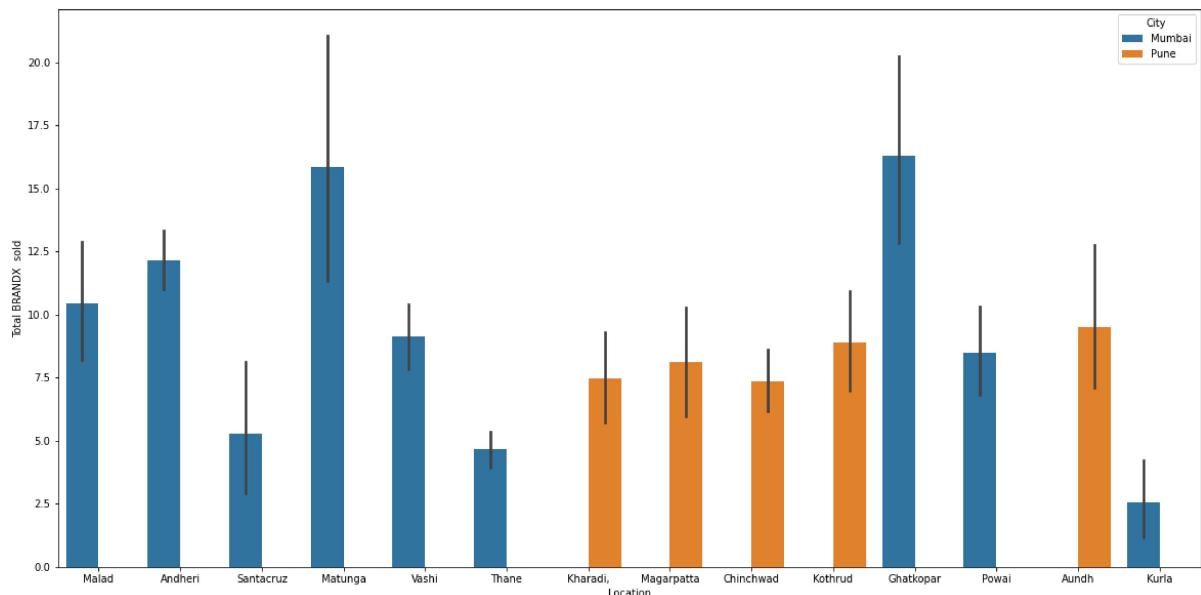
```
In [76]: plt.figure(figsize=(20,10))
sns.barplot(y=brandX_df["Total BRANDX sold"], x=brandX_df["Month"], hue=brandX_df["City"])
```

Out[76]: <matplotlib.axes._subplots.AxesSubplot at 0x1e4445e5aa0>



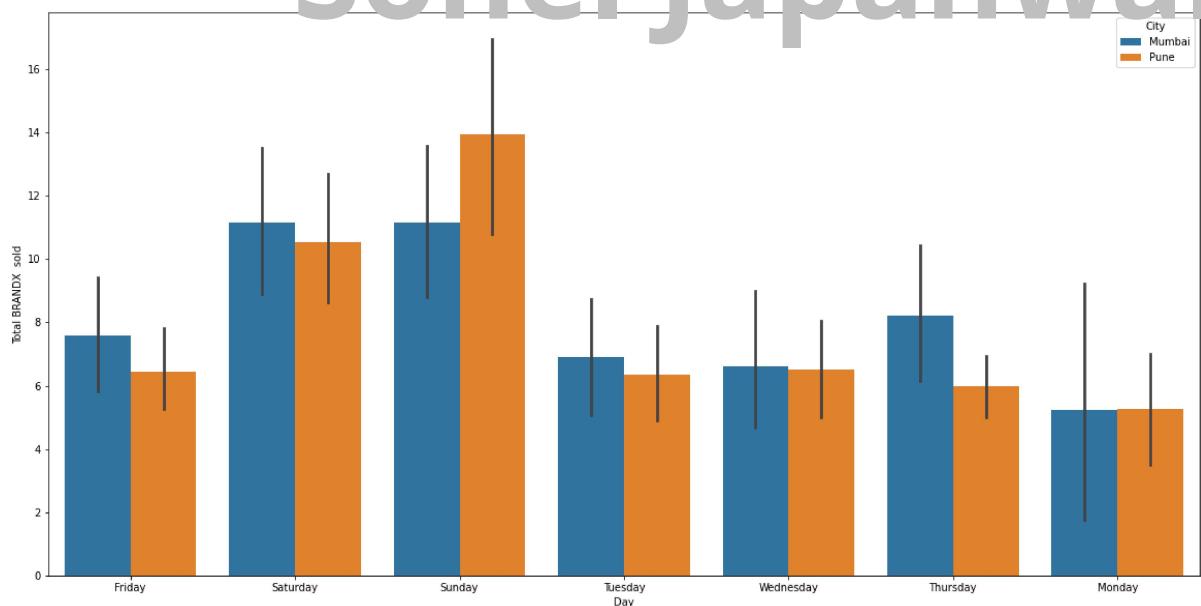
```
In [47]: plt.figure(figsize=(20,10))
sns.barplot(y=brandX_df["Total BRANDX sold"], x=brandX_df["Location"], hue=brandX_df["City"])
```

Out[47]: <matplotlib.axes._subplots.AxesSubplot at 0x1e4413d31c0>



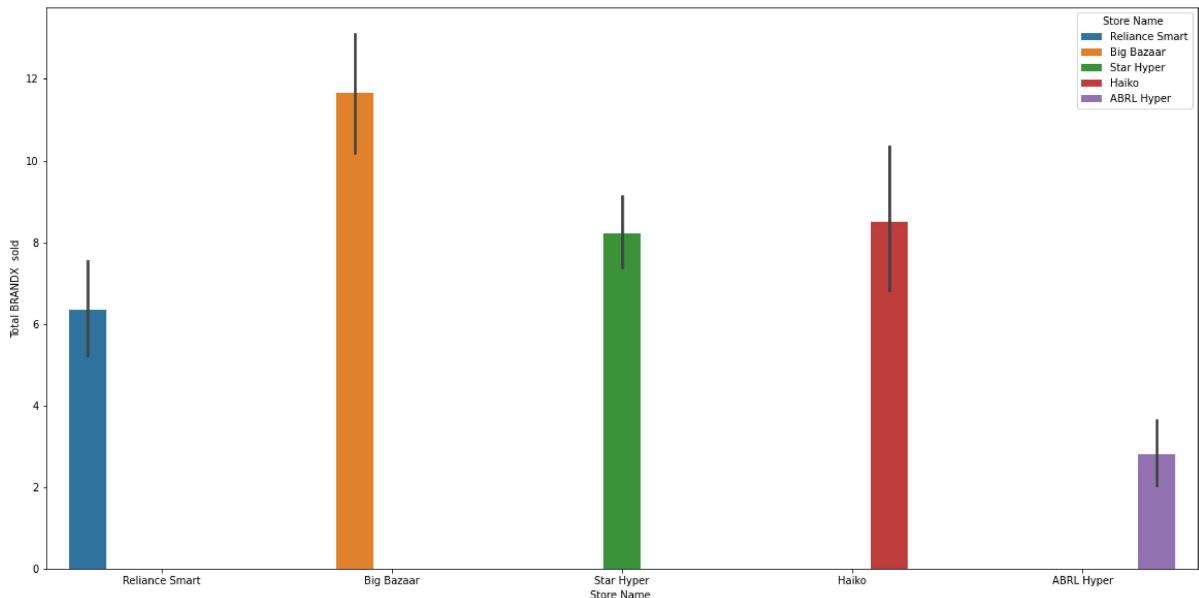
```
In [48]: plt.figure(figsize=(20,10))
sns.barplot(y=brandX_df["Total BRANDX sold"], x=brandX_df["Day"], hue=brandX_df["City"])
```

Out[48]: <matplotlib.axes._subplots.AxesSubplot at 0x1e4413d31c0>



```
In [117]: plt.figure(figsize=(20,10))
sns.barplot(y=brandX_df["Total BRANDX sold"], x=brandX_df["Store Name "], hue=brandX_df["Store Name "])
```

Out[117]: <matplotlib.axes._subplots.AxesSubplot at 0x1e4486edfd0>



Observations:

- The total sales in Mumbai was more :2600
- The sales in Pune was lesser :1060
- The average sales was only a little higher in Mumbai at 8.6 units
- The sales were higher in April followed by March and then May
- The sales were greatest on Sunday and least on Monday
- Big Bazaar outlets had the most sales whereas ABRL was the least

4.6 Factors Affecting Sales

4.6.1 Add Total Opening Stock Column

```
In [58]: brandX_df['Total Opening Stock'] =brandX_df["BRANDX 60ML opening Stock "]+brandX_df["BRANDX 150ML opening Stock "]
```

4.6.2 Changing Month and Weekday To Number

```
In [68]: brandX_df["Month_Number"] =brandX_df["Date "].dt.month
brandX_df["Day_Number"] =brandX_df["Date "].dt.weekday
```

In [69]: `brandX_df.columns`

Out[69]: `Index(['Sr No. ', 'City', 'Store Name ', 'Location', 'Date ', 'People Approached', 'BRANDX 60ML opening Stock ', 'BRANDX 60ML Sold', 'BRANDX 60ML closing Stock ', 'BRANDX 150ML opening Stock ', 'BRANDX 150ML Sold', 'BRANDX 150ML closing Stock ', 'Total BRANDX sold', 'Remarks', 'Month', 'Day', 'Total Opening Stock', 'Month_number', 'Month_Number', 'Day_Number'], dtype='object')`

In [60]: `brandX_df.head(2)`

Out[60]:

| Sr No. | City | Store Name | Location | Date | People Approached | BRANDX 60ML opening Stock | BRANDX 60ML Sold | BRANDX 60ML closing Stock | BRANDX 150ML opening Stock |
|--------|------|------------|----------------|-------|-------------------|---------------------------|------------------|---------------------------|----------------------------|
| 0 | 1 | Mumbai | Reliance Smart | Malad | 2019-03-22 | 54 | 14 | 12 | 2 |
| 1 | 2 | Mumbai | Big Bazaar | Malad | 2019-03-22 | 47 | 11 | 9 | 3 |

In [96]: `brandX_df[salesFactors].corr()`

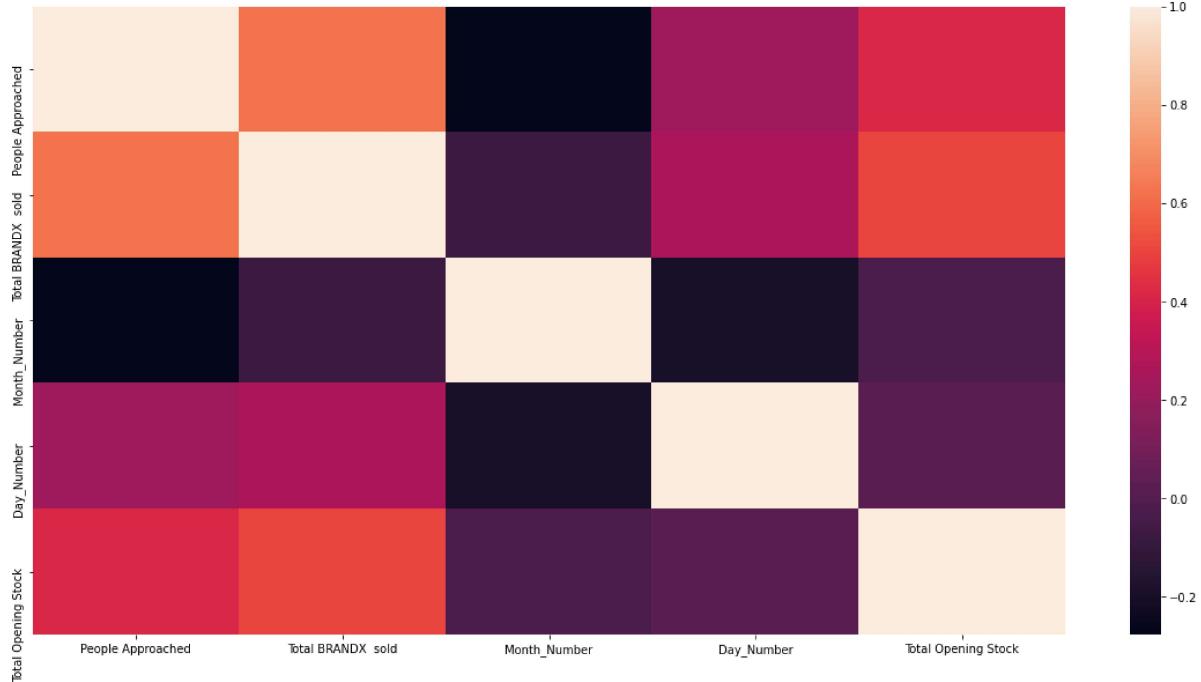
Out[96]:

| | People Approached | Total BRANDX sold | Month_Number | Day_Number | Total Opening Stock |
|---------------------|-------------------|-------------------|--------------|------------|---------------------|
| People Approached | 1.000000 | 0.622920 | -0.277241 | 0.224913 | 0.418209 |
| Total BRANDX sold | 0.622920 | 1.000000 | -0.070664 | 0.270324 | 0.505675 |
| Month_Number | -0.277241 | -0.070664 | 1.000000 | -0.195659 | -0.019448 |
| Day_Number | 0.224913 | 0.270324 | -0.195659 | 1.000000 | 0.025052 |
| Total Opening Stock | 0.418209 | 0.505675 | -0.019448 | 0.025052 | 1.000000 |

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```
In [78]: salesFactors=['People Approached','Total BRANDX sold','Month_Number', 'Day_Number','Total Opening Stock']
plt.figure(figsize=(20,10))
sns.heatmap(brandX_df[salesFactors].corr())
```

Out[78]: <matplotlib.axes._subplots.AxesSubplot at 0x1e445c46760>



Observations:

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- Total opening stocks affect the promoters confidence to approach people
- Total opening stocks affect the total sales
- The day of the week affect total people approached
- The day of the week affect sales

4.7 Listing Cities/ Locations/ Store Basis Sales Figures

```
In [106]: print("Total Sales:")
brandX_df.groupby("City")["Total BRANDX sold"].sum()
```

Total Sales:

```
Out[106]: City
Mumbai    2603
Pune      1066
Name: Total BRANDX sold, dtype: int64
```

```
In [112]: print("Total Sales:")
locationWiseSales=brandX_df.groupby("Location")["Total BRANDX sold"].sum()
locationWiseSales.sort_values()
```

Total Sales:

```
Out[112]: Location
Kurla           71
Powai          102
Santacruz      137
Chinchwad     191
Kharadi,       194
Magarpatta    203
Kothrud        231
Vashi          237
Aundh          247
Andheri        316
Thane          363
Matunga        412
Ghatkopar     423
Malad          542
Name: Total BRANDX sold, dtype: int64
```

```
In [114]: print("Total Sales:")
storeWiseSales=brandX_df.groupby("Store Name")["Total BRANDX sold"].sum()
storeWiseSales.sort_values()
```

Total Sales:

```
Out[114]: Store Name
ABRL Hyper      76
Haiko          102
Reliance Smart  837
Star Hyper      847
Big Bazaar      1807
Name: Total BRANDX sold, dtype: int64
```

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```
In [115]: print("Total Sales:")
weekdayWiseSales=brandX_df.groupby("Day")["Total BRANDX sold"].sum()
weekdayWiseSales.sort_values()
```

Total Sales:

```
Out[115]: Day
Monday         68
Tuesday        411
Wednesday      427
Thursday       484
Friday          519
Sunday          871
Saturday       889
Name: Total BRANDX sold, dtype: int64
```

5. Actionable Insights

To prevent losses, promotions can be avoided:

- At locations where numbers are the least
- At LFR Stores where numbers are the least
- At the start of the week

Sales will improve:

- if promoters approach more people
- if stocks are replenished
- If sales are pushed near the weekends

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