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In [16]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
sns.set()
```

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In [17]: df = pd.read_csv(r'C:\Users\HP\Downloads\archive\walmart-sales-dataset-of-45stores.csv')
```

```
In [18]: df
```

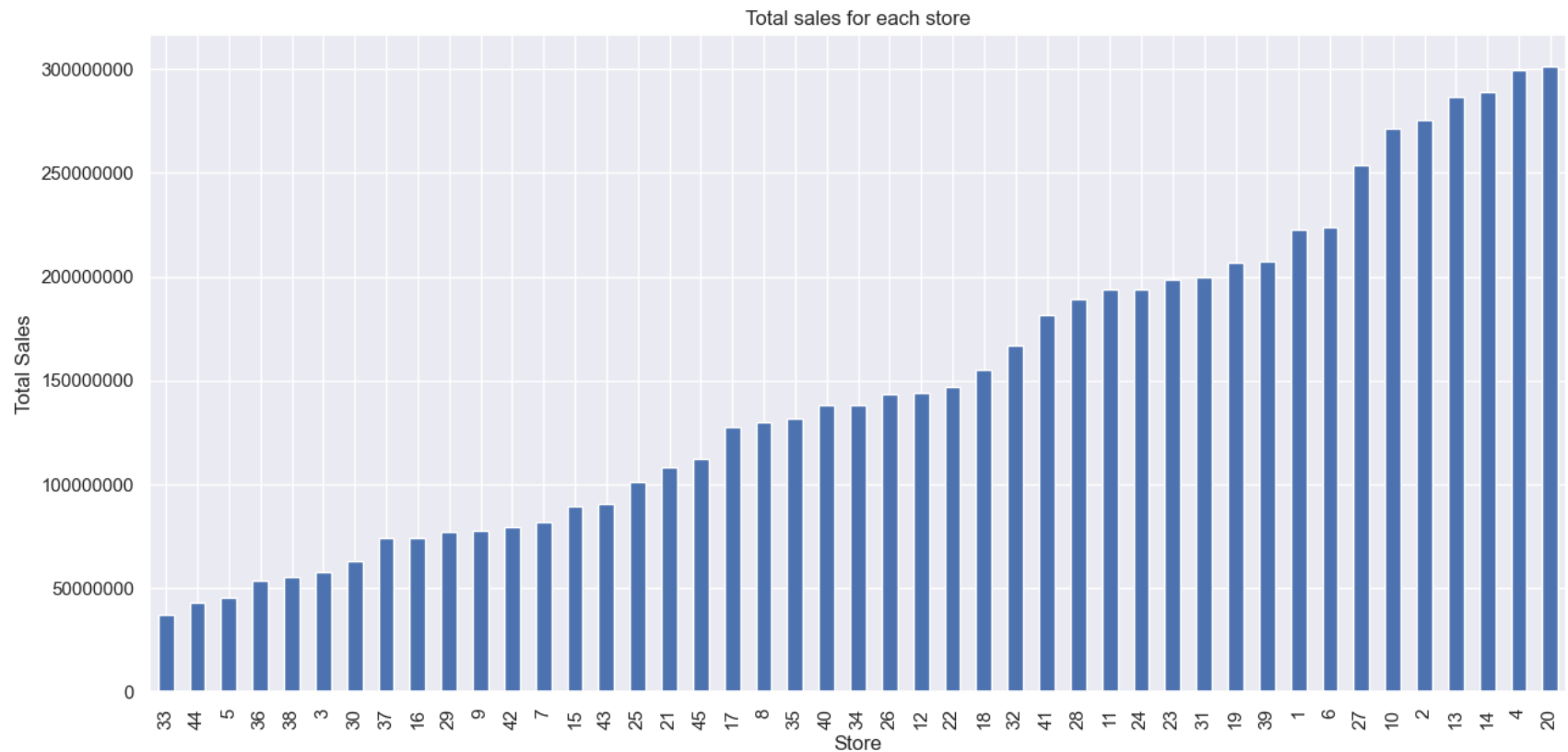
```
Out[18]:
```

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
0	1	05-02-2010	1643690.90	0	42.31	2.572	211.096358	8.106
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.242170	8.106
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.289143	8.106
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.319643	8.106
4	1	05-03-2010	1554806.68	0	46.50	2.625	211.350143	8.106
...
6430	45	28-09-2012	713173.95	0	64.88	3.997	192.013558	8.684
6431	45	05-10-2012	733455.07	0	64.89	3.985	192.170412	8.667
6432	45	12-10-2012	734464.36	0	54.47	4.000	192.327265	8.667
6433	45	19-10-2012	718125.53	0	56.47	3.969	192.330854	8.667
6434	45	26-10-2012	760281.43	0	58.85	3.882	192.308899	8.667

6435 rows × 8 columns

```
In [38]: total_sales= df.groupby('Store')['Weekly_Sales'].sum().sort_values()
total_sales_array = np.array(total_sales)
plt.figure(figsize=(15,7))
plt.xticks(rotation=0)
plt.ticklabel_format(useOffset=False, style='plain', axis='y')
plt.title('Total sales for each store')
plt.xlabel('Store')
plt.ylabel('Total Sales')
total_sales.plot(kind='bar')
```

```
Out[38]: <AxesSubplot:title={'center':'Total sales for each store'}, xlabel='Store', ylabel='Total Sales'>
```



```
In [34]: print("As we can see that store no 20 has the highest sales.")
```

As we can see that store no 20 has the highest sales.

```
In [35]: walmart_data_std = pd.DataFrame(df.groupby('Store')['Weekly_Sales'].std().sort_values(ascending=False))  
walmart_data_std.head(1).index[0] , walmart_data_std.head(1).Weekly_Sales[walmart_data_std.head(1).index[0]]
```

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Out[35]: (14, 317569.9494755081)
```

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In [36]: print("Thus, the store which has maximum standard deviation is store number 14.")
```

Thus, the store which has maximum standard deviation is store number 14.

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In [ ]:
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