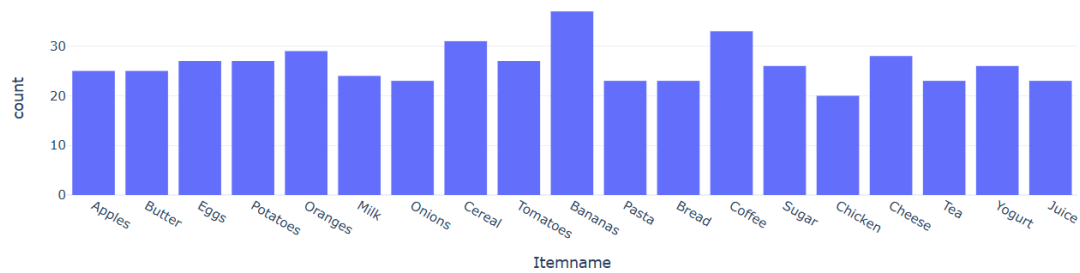


# PROJECT – MARKET BASKET ANALYSIS GRAPHS AND PLOTS

#Sales Distribution Of Items Graph

```
fig = px.histogram(data, x='Itemname',  
                  title='Item Distribution')  
fig.show()
```

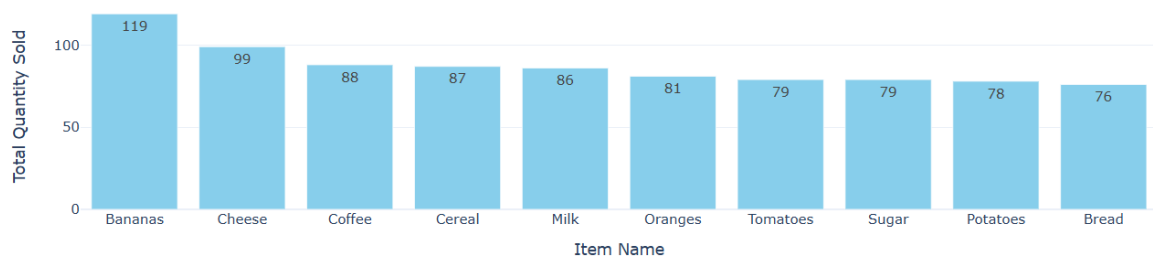
Item Distribution



#Top 10 Popular Items Sold by store :

```
# Calculate item popularity  
item_popularity = data.groupby('Itemname')['Quantity'].sum().sort_values(ascending=False)  
  
top_n = 10  
fig = go.Figure()  
fig.add_trace(go.Bar(x=item_popularity.index[:top_n], y=item_popularity.values[:top_n],  
                    text=item_popularity.values[:top_n], textposition='auto',  
                    marker=dict(color='skyblue')))  
fig.update_layout(title=f'Top {top_n} Most Popular Items',  
                  xaxis_title='Item Name', yaxis_title='Total Quantity Sold')  
fig.show()
```

Top 10 Most Popular Items



Customer Behavior

