```
In [1]: # importing necessary liberary
        import numpy as np
        import pandas as pd
        import pymongo
        import sklearn
        import matplotlib.pyplot as plt
        import seaborn as sns
        %matplotlib inline
        import plotly.express as px
        import pickle
```

```
In [2]: import warnings
        warnings.filterwarnings('ignore')
```

```
In [3]: # all the variables
        csv_file_path = 'Walmart.csv'
        json_file_path ='Walmart.json'
        password='satish321'
        connection_string=f'mongodb+srv://satishkandel198:{password}@cluster0.odylp4l.mongodb.net/?retryWrites=true&w=ma
        db_name='WALMART'
        my_collection='sales_data'
```

```
In [4]: # create a function that returns the database connection
        def get_connection(connection_string):
            try:
                client=pymongo.MongoClient(connection_string)
                return client
            except Exception as e:
                return  e
```

```
In [5]: # importing data from mongo db database into the pandas dataframe
        client=get_connection(connection_string)
        print(client)

        mydb=client[db_name]

        collection=mydb[my_collection]
        curser=collection.find()

        # print(type(curser))
        df=pd.DataFrame(curser)
```

```
MongoClient(host=['ac-ny1yb7u-shard-00-00.odylp4l.mongodb.net:27017', 'ac-ny1yb7u-shard-00-02.odylp4l.mongodb.ne
t:27017', 'ac-ny1yb7u-shard-00-01.odylp4l.mongodb.net:27017'], document_class=dict, tz_aware=False, connect=True
, retrywrites=True, w='majority', authsource='admin', replicaset='atlas-vd77c7-shard-0', tls=True)
```

```
In [6]: # dropping the column _id, which is automatically generated by the mongodb, because it is not the part of raw da
        df.drop('_id',axis=1,inplace=True)
```

```
In [7]: # verify the dataframe
        df.head()
```

Out[7]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
0	1	05-02-2010	1643690.9	0	42.31	2.572	211.0963582	8.106
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.2421698	8.106
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.2891429	8.106
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.3196429	8.106
4	1	05-03-2010	1554806.68	0	46.5	2.625	211.3501429	8.106

1. DATA EXPLORATION

```
In [8]: # lets check the summary of the dataframe's metadata
        df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6435 entries, 0 to 6434
Data columns (total 8 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   Store         6435 non-null   object
 1   Date          6435 non-null   object
 2   Weekly_Sales  6435 non-null   object
 3   Holiday_Flag  6435 non-null   object
 4   Temperature   6435 non-null   object
 5   Fuel_Price    6435 non-null   object
 6   CPI           6435 non-null   object
 7   Unemployment  6435 non-null   object
dtypes: object(8)
memory usage: 402.3+ KB
```

In [9]:
```python
# lets check the statistical summary of the dataframe
df.describe()
```

Out[9]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
count	6435	6435	6435	6435	6435	6435	6435	6435
unique	45	143	6435	2	3528	892	2145	349
top	1	05-02-2010	1643690.9	0	50.43	3.638	130.5502069	8.099
freq	143	45	1	5985	11	39	11	78

In [10]:
```python
# check the number of the missing values in each of the columns
df.isnull().sum()
```

Out[10]:
```
Store           0
Date            0
Weekly_Sales    0
Holiday_Flag    0
Temperature     0
Fuel_Price      0
CPI             0
Unemployment    0
dtype: int64
```

From the above result we can conform that there are no any missing value for the columns

In [11]:
```python
# convert the data field in df to data format and extract dat,month,year and finally drop the original date
df['Date'] = pd.to_datetime(df['Date'],format='%d-%m-%Y')
df['Day'] = df['Date'].dt.weekday.astype(int)
df['Month'] = df['Date'].dt.month.astype(int)
df['Year']  = df['Date'].dt.year.astype(int)
df['Weekly_Sales']  = df['Weekly_Sales'].astype(float)
df.drop('Date',axis=1,inplace=True)
df['Holiday_Flag']  = df['Holiday_Flag'].astype(int)
df['Temperature']  = df['Temperature'].astype(float)
df['Fuel_Price']  = df['Fuel_Price'].astype(float)
df['CPI']  = df['Fuel_Price'].astype(float)
df['Unemployment']  = df['Unemployment'].astype(float)
df['Store']  = df['Store'].astype(int)
df.head()
```

Out[11]:

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	42.31	2.572	2.572	8.106	4	2	2010
1	1	1641957.44	1	38.51	2.548	2.548	8.106	4	2	2010
2	1	1611968.17	0	39.93	2.514	2.514	8.106	4	2	2010
3	1	1409727.59	0	46.63	2.561	2.561	8.106	4	2	2010
4	1	1554806.68	0	46.50	2.625	2.625	8.106	4	3	2010

In [12]:
```python
# check the number of rows and columns in the dataframe
df.shape
```

Out[12]: (6435, 10)

In [13]:
```python
'''
make a copy of the original data frame as df12.We will now perform all the operation in
df12 so that the original dataframe remain the same.
'''
df12= df.copy()
```
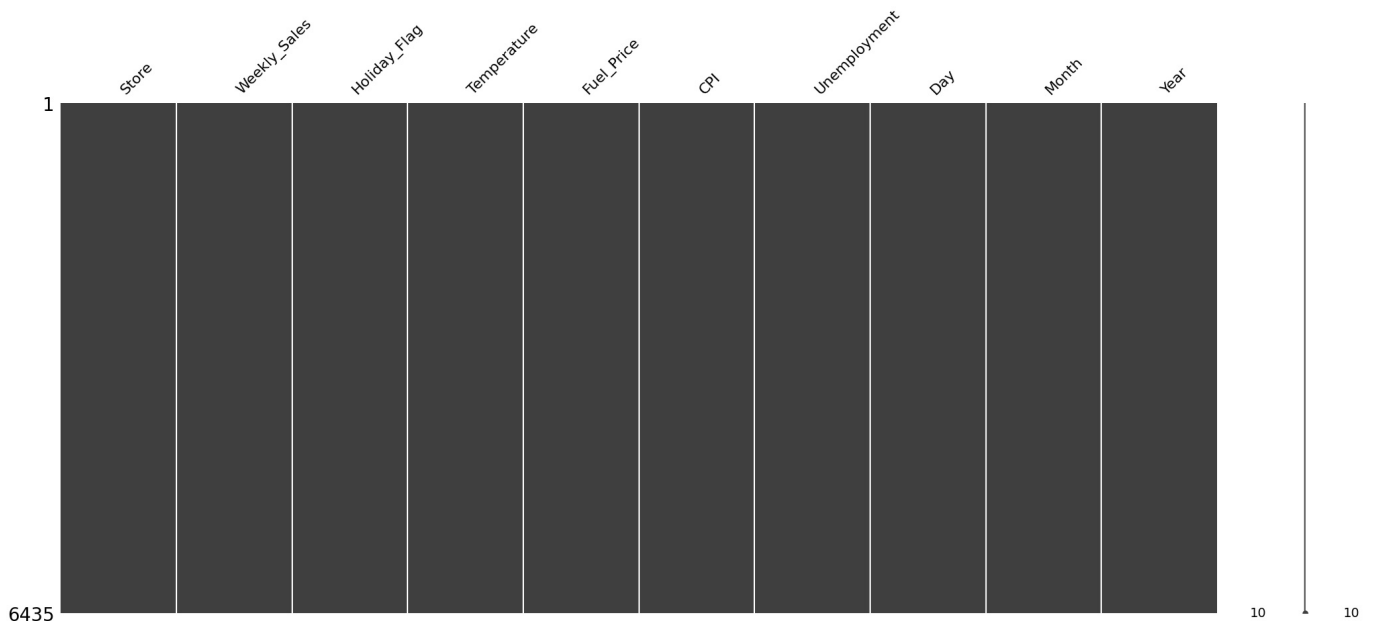
2. **Exploratory Data Analysis**

```
In [14]:  # lets check if the data is ready for further processing
          df.head()
```

Out[14]:

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	42.31	2.572	2.572	8.106	4	2	2010
1	1	1641957.44	1	38.51	2.548	2.548	8.106	4	2	2010
2	1	1611968.17	0	39.93	2.514	2.514	8.106	4	2	2010
3	1	1409727.59	0	46.63	2.561	2.561	8.106	4	2	2010
4	1	1554806.68	0	46.50	2.625	2.625	8.106	4	3	2010

```
In [15]:  '''
          checking the presence and the distribution of the missing data within a pandas Dataframe.
          The msgn.matrix(df) function is the method in missingno liberary that creates a matrix plot of the missing value
          '''
          import missingno as msgn
          msgn.matrix(df)
```

Out[15]: <Axes: >

The above matrix plot shows there are no any missing values in the dataframe

```
In [16]:  df.head()
```

Out[16]:

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	42.31	2.572	2.572	8.106	4	2	2010
1	1	1641957.44	1	38.51	2.548	2.548	8.106	4	2	2010
2	1	1611968.17	0	39.93	2.514	2.514	8.106	4	2	2010
3	1	1409727.59	0	46.63	2.561	2.561	8.106	4	2	2010
4	1	1554806.68	0	46.50	2.625	2.625	8.106	4	3	2010

```
In [17]:  '''
          Here in the dataframe  we have days, month are the numerical variables, however instead of using numerical data
          visualization we are interested to see name of the day while visualization.

          Converting days and months from numerics to categories
          '''
          days = {0:'Sunday',1:'Monday',2:'Tuesday',3:'Wednesday',4:'Thursday',5: 'Friday',6:'Saturday'}
          df['Day'] = df['Day'].map(days)
          months={1:'January',2:'February',3:'March',4:'April',5:'May',6:'June',7:'July',8:'August',9:'September',10:'Octo
          df['Month']= df['Month'].map(months)
          df.head()
```
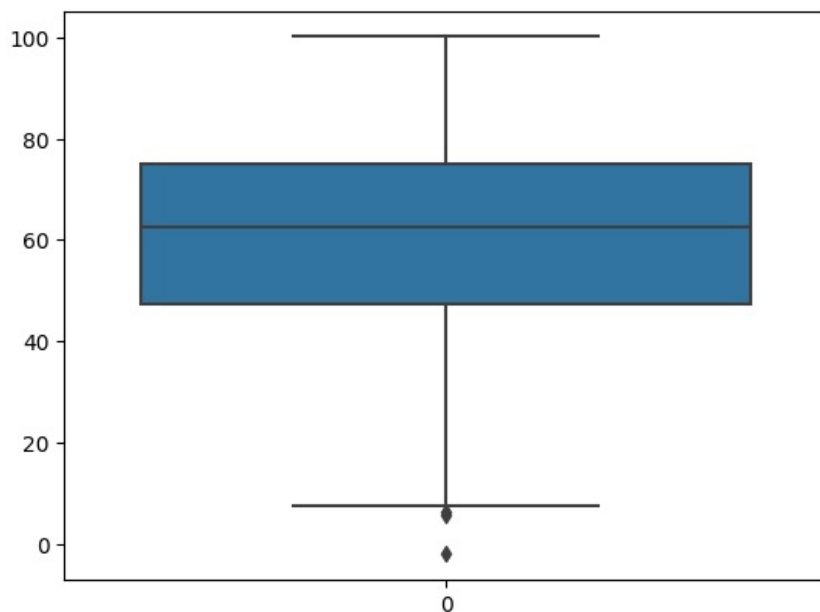
	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	42.31	2.572	2.572	8.106	Thursday	February	2010
1	1	1641957.44	1	38.51	2.548	2.548	8.106	Thursday	February	2010
2	1	1611968.17	0	39.93	2.514	2.514	8.106	Thursday	February	2010
3	1	1409727.59	0	46.63	2.561	2.561	8.106	Thursday	February	2010
4	1	1554806.68	0	46.50	2.625	2.625	8.106	Thursday	March	2010

In [18]:
```python
# lets iterate through the dataframe and check number of unique values for each of the columns
for i in ['Store','Fuel_Price','Unemployment','Day','Month','Year']:
    print(f'{i}: {df[i].nunique()}')
```

```
Store: 45
Fuel_Price: 892
Unemployment: 349
Day: 1
Month: 12
Year: 3
```

In [19]:
```python
# visualization of outliers with the help of box plot
sns.boxplot(df['Temperature'])
```

Out[19]: <Axes: >

Removal of outliers

In [20]:
```python
# Calculate IQR (Interquartile Range)
Q1 = df['Temperature'].quantile(0.25)
Q3 = df['Temperature'].quantile(0.75)
IQR = Q3 - Q1

# Define the lower and upper bounds for outliers
lower_bound = Q1 - 1.5 * IQR
upper_bound = Q3 + 1.5 * IQR

# Identify and remove outliers
df = df[(df['Temperature'] >= lower_bound) & (df['Temperature'] <= upper_bound)]
```
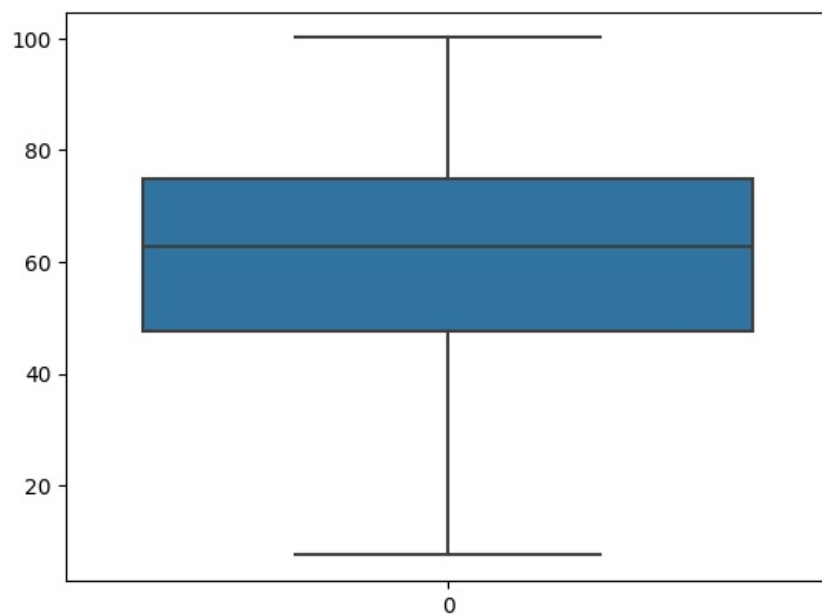
The above boxplot will provide a visual summary of the central tendency, spread, and presence of outliers in the 'Temperature' data.

- The line inside the box is median
- the box border is Interquartile range (Q1 and Q3)
- The whiskers to the left is minimum value
- The whiskers to the right is maximum value
- The dotted mark outside the boxplot is outlier

Most of the data falls in the range of 40 - 80 F.

In [21]:
```python
# Plot the boxplot after removing outliers
sns.boxplot(df['Temperature'])
```

Out[21]: <Axes: >

In [22]: `# convert cleaned and enriched data into data_dict`
`data_dict = df.to_dict(orient='records')`
`data_dict`

Out[22]: [{'Store': 1,
  'Weekly_Sales': 1643690.9,
  'Holiday_Flag': 0,
  'Temperature': 42.31,
  'Fuel_Price': 2.572,
  'CPI': 2.572,
  'Unemployment': 8.106,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1641957.44,
  'Holiday_Flag': 1,
  'Temperature': 38.51,
  'Fuel_Price': 2.548,
  'CPI': 2.548,
  'Unemployment': 8.106,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1611968.17,
  'Holiday_Flag': 0,
  'Temperature': 39.93,
  'Fuel_Price': 2.514,
  'CPI': 2.514,
  'Unemployment': 8.106,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1409727.59,
  'Holiday_Flag': 0,
  'Temperature': 46.63,
  'Fuel_Price': 2.561,
  'CPI': 2.561,
  'Unemployment': 8.106,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1554806.68,
  'Holiday_Flag': 0,
  'Temperature': 46.5,
  'Fuel_Price': 2.625,
  'CPI': 2.625,
  'Unemployment': 8.106,
  'Day': 'Thursday',
  'Month': 'March',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1439541.59,
  'Holiday_Flag': 0,

 'Temperature': 57.79,
 'Fuel_Price': 2.667,
 'CPI': 2.667,
 'Unemployment': 8.106,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1472515.79,
 'Holiday_Flag': 0,
 'Temperature': 54.58,
 'Fuel_Price': 2.72,
 'CPI': 2.72,
 'Unemployment': 8.106,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1404429.92,
 'Holiday_Flag': 0,
 'Temperature': 51.45,
 'Fuel_Price': 2.732,
 'CPI': 2.732,
 'Unemployment': 8.106,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1594968.28,
 'Holiday_Flag': 0,
 'Temperature': 62.27,
 'Fuel_Price': 2.719,
 'CPI': 2.719,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1545418.53,
 'Holiday_Flag': 0,
 'Temperature': 65.86,
 'Fuel_Price': 2.77,
 'CPI': 2.77,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1466058.28,
 'Holiday_Flag': 0,
 'Temperature': 66.32,
 'Fuel_Price': 2.808,
 'CPI': 2.808,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1391256.12,
 'Holiday_Flag': 0,
 'Temperature': 64.84,
 'Fuel_Price': 2.795,
 'CPI': 2.795,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1425100.71,
 'Holiday_Flag': 0,
 'Temperature': 67.41,
 'Fuel_Price': 2.78,
 'CPI': 2.78,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1603955.12,
 'Holiday_Flag': 0,
 'Temperature': 72.55,
 'Fuel_Price': 2.835,
 'CPI': 2.835,

 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1494251.5,
 'Holiday_Flag': 0,
 'Temperature': 74.78,
 'Fuel_Price': 2.854,
 'CPI': 2.854,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1399662.07,
 'Holiday_Flag': 0,
 'Temperature': 76.44,
 'Fuel_Price': 2.826,
 'CPI': 2.826,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1432069.95,
 'Holiday_Flag': 0,
 'Temperature': 80.44,
 'Fuel_Price': 2.759,
 'CPI': 2.759,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1615524.71,
 'Holiday_Flag': 0,
 'Temperature': 80.69,
 'Fuel_Price': 2.705,
 'CPI': 2.705,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1542561.09,
 'Holiday_Flag': 0,
 'Temperature': 80.43,
 'Fuel_Price': 2.668,
 'CPI': 2.668,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1503284.06,
 'Holiday_Flag': 0,
 'Temperature': 84.11,
 'Fuel_Price': 2.637,
 'CPI': 2.637,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1422711.6,
 'Holiday_Flag': 0,
 'Temperature': 84.34,
 'Fuel_Price': 2.653,
 'CPI': 2.653,
 'Unemployment': 7.808,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1492418.14,
 'Holiday_Flag': 0,
 'Temperature': 80.91,
 'Fuel_Price': 2.669,
 'CPI': 2.669,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'July',

 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1546074.18,
 'Holiday_Flag': 0,
 'Temperature': 80.48,
 'Fuel_Price': 2.642,
 'CPI': 2.642,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1448938.92,
 'Holiday_Flag': 0,
 'Temperature': 83.15,
 'Fuel_Price': 2.623,
 'CPI': 2.623,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1385065.2,
 'Holiday_Flag': 0,
 'Temperature': 83.36,
 'Fuel_Price': 2.608,
 'CPI': 2.608,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1371986.6,
 'Holiday_Flag': 0,
 'Temperature': 81.84,
 'Fuel_Price': 2.64,
 'CPI': 2.64,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1605491.78,
 'Holiday_Flag': 0,
 'Temperature': 87.16,
 'Fuel_Price': 2.627,
 'CPI': 2.627,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1508237.76,
 'Holiday_Flag': 0,
 'Temperature': 87.0,
 'Fuel_Price': 2.692,
 'CPI': 2.692,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1513080.49,
 'Holiday_Flag': 0,
 'Temperature': 86.65,
 'Fuel_Price': 2.664,
 'CPI': 2.664,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1449142.92,
 'Holiday_Flag': 0,
 'Temperature': 85.22,
 'Fuel_Price': 2.619,
 'CPI': 2.619,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1540163.53,

 'Holiday_Flag': 0,
 'Temperature': 81.21,
 'Fuel_Price': 2.577,
 'CPI': 2.577,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'September',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1507460.69,
 'Holiday_Flag': 1,
 'Temperature': 78.69,
 'Fuel_Price': 2.565,
 'CPI': 2.565,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'September',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1430378.67,
 'Holiday_Flag': 0,
 'Temperature': 82.11,
 'Fuel_Price': 2.582,
 'CPI': 2.582,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'September',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1351791.03,
 'Holiday_Flag': 0,
 'Temperature': 80.94,
 'Fuel_Price': 2.624,
 'CPI': 2.624,
 'Unemployment': 7.787,
 'Day': 'Thursday',
 'Month': 'September',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1453329.5,
 'Holiday_Flag': 0,
 'Temperature': 71.89,
 'Fuel_Price': 2.603,
 'CPI': 2.603,
 'Unemployment': 7.838,
 'Day': 'Thursday',
 'Month': 'October',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1508239.93,
 'Holiday_Flag': 0,
 'Temperature': 63.93,
 'Fuel_Price': 2.633,
 'CPI': 2.633,
 'Unemployment': 7.838,
 'Day': 'Thursday',
 'Month': 'October',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1459409.1,
 'Holiday_Flag': 0,
 'Temperature': 67.18,
 'Fuel_Price': 2.72,
 'CPI': 2.72,
 'Unemployment': 7.838,
 'Day': 'Thursday',
 'Month': 'October',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1345454.0,
 'Holiday_Flag': 0,
 'Temperature': 69.86,
 'Fuel_Price': 2.725,
 'CPI': 2.725,
 'Unemployment': 7.838,
 'Day': 'Thursday',
 'Month': 'October',
 'Year': 2010},
{'Store': 1,
 'Weekly_Sales': 1384209.22,
 'Holiday_Flag': 0,
 'Temperature': 69.64,
 'Fuel_Price': 2.716,

  'CPI': 2.716,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1551659.28,
  'Holiday_Flag': 0,
  'Temperature': 58.74,
  'Fuel_Price': 2.689,
  'CPI': 2.689,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'Novemenber',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1494479.49,
  'Holiday_Flag': 0,
  'Temperature': 59.61,
  'Fuel_Price': 2.728,
  'CPI': 2.728,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'Novemenber',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1483784.18,
  'Holiday_Flag': 0,
  'Temperature': 51.41,
  'Fuel_Price': 2.771,
  'CPI': 2.771,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'Novemenber',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1955624.11,
  'Holiday_Flag': 1,
  'Temperature': 64.52,
  'Fuel_Price': 2.735,
  'CPI': 2.735,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'Novemenber',
  'Year': 2010},
 {'Store': 1,
  'Weekly_Sales': 1548033.78,
  'Holiday_Flag': 0,
  'Temperature': 49.27,
  'Fuel_Price': 2.708,
  'CPI': 2.708,
  'Unemployment': 7.838,
  'Day': 'Thursday',
  'Month': 'December',
  'Year': 2010},
 {'Store': 1,
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  'Day': 'Thursday',
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  'Unemployment': 6.908,
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  'Unemployment': 6.573,
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  'Unemployment': 6.573,
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  'Unemployment': 6.573,
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  'CPI': 2.572,
  'Unemployment': 8.324,
  'Day': 'Thursday',
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  'CPI': 2.548,
  'Unemployment': 8.324,
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  'CPI': 2.514,
  'Unemployment': 8.324,
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  'Year': 2010},
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 'Day': 'Thursday',
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 'Year': 2010},
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 'Month': 'March',
 'Year': 2010},
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 'Unemployment': 8.324,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
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 'Unemployment': 8.324,
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 'CPI': 2.719,
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 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2010},
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 'Unemployment': 8.2,
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 'Month': 'April',
 'Year': 2010},
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 'Month': 'April',
 'Year': 2010},
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  'Year': 2010},
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  'CPI': 2.78,
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  'Month': 'April',
  'Year': 2010},
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  'CPI': 2.835,
  'Unemployment': 8.2,
  'Day': 'Thursday',
  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.854,
  'Unemployment': 8.2,
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  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.826,
  'Unemployment': 8.2,
  'Day': 'Thursday',
  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.759,
  'Unemployment': 8.2,
  'Day': 'Thursday',
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  'Year': 2010},
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  'CPI': 2.705,
  'Unemployment': 8.2,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},
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  'CPI': 2.668,
  'Unemployment': 8.2,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},
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  'Unemployment': 8.2,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},

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 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
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 'Year': 2010},
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 'Month': 'July',
 'Year': 2010},
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 'Unemployment': 8.099,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2010},
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 'Unemployment': 8.099,
 'Day': 'Thursday',
 'Month': 'July',
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 'Unemployment': 8.099,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
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 'Month': 'August',
 'Year': 2010},
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  'Year': 2010},
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  'Temperature': 87.12,
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  'CPI': 2.619,
  'Unemployment': 8.099,
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  'Month': 'August',
  'Year': 2010},
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  'Holiday_Flag': 0,
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  'Fuel_Price': 2.577,
  'CPI': 2.577,
  'Unemployment': 8.099,
  'Day': 'Thursday',
  'Month': 'September',
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  'Temperature': 79.09,
  'Fuel_Price': 2.565,
  'CPI': 2.565,
  'Unemployment': 8.099,
  'Day': 'Thursday',
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  'Year': 2010},
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  'Temperature': 82.05,
  'Fuel_Price': 2.582,
  'CPI': 2.582,
  'Unemployment': 8.099,
  'Day': 'Thursday',
  'Month': 'September',
  'Year': 2010},
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  'CPI': 2.624,
  'Unemployment': 8.099,
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  'Month': 'September',
  'Year': 2010},
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  'CPI': 2.603,
  'Unemployment': 8.163,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
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  'Holiday_Flag': 0,
  'Temperature': 63.19,
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  'CPI': 2.633,
  'Unemployment': 8.163,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
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  'Holiday_Flag': 0,
  'Temperature': 65.8,
  'Fuel_Price': 2.72,
  'CPI': 2.72,

  'Unemployment': 8.163,
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  'Year': 2010},
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  'CPI': 2.725,
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  'Month': 'October',
  'Year': 2010},
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  'CPI': 2.716,
  'Unemployment': 8.163,
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  'Month': 'October',
  'Year': 2010},
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  'Unemployment': 8.163,
  'Day': 'Thursday',
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  'Year': 2010},
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  'CPI': 2.728,
  'Unemployment': 8.163,
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  'Year': 2010},
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  'CPI': 2.771,
  'Unemployment': 8.163,
  'Day': 'Thursday',
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  'Year': 2010},
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  'Temperature': 62.98,
  'Fuel_Price': 2.735,
  'CPI': 2.735,
  'Unemployment': 8.163,
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  'Year': 2010},
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  'Temperature': 49.33,
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  'CPI': 2.708,
  'Unemployment': 8.163,
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  'Month': 'December',
  'Year': 2010},
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 'Unemployment': 8.163,
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 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'Unemployment': 8.163,
 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'Month': 'January',
 'Year': 2011},
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 'CPI': 2.983,
 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'CPI': 3.016,
 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'CPI': 3.01,
 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
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 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
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 'Temperature': 57.83,
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 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
{'Store': 2,
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 'Unemployment': 8.028,
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 'Month': 'February',
 'Year': 2011},
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 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'CPI': 3.473,
 'Unemployment': 8.028,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'Temperature': 55.43,
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 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2011},
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  'Unemployment': 7.931,
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  'Month': 'April',
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  'CPI': 3.743,
  'Unemployment': 7.931,
  'Day': 'Thursday',
  'Month': 'April',
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   'Year': 2010},
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   'Month': 'September',
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     'Unemployment': 7.564,
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     'Month': 'October',
     'Year': 2010},
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     'CPI': 2.72,
     'Unemployment': 7.564,
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     'Year': 2010},
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     'Year': 2010},
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     'Year': 2010},
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     'Year': 2010},
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 'Month': 'December',
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 'Year': 2010},
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 'Month': 'February',
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 'Year': 2011},
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 'Month': 'May',
 'Year': 2011},
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 'Year': 2011},
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 'Year': 2011},
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 'Month': 'June',
 'Year': 2011},
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 'Month': 'July',
 'Year': 2011},
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 'Month': 'July',
 'Year': 2011},
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 'Unemployment': 7.567,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2011},
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 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2011},
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 'Unemployment': 7.567,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2011},
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 'Unemployment': 7.567,
 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2011},
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 'Month': 'July',
 'Year': 2012},
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 'Unemployment': 4.077,
 'Day': 'Thursday',
 'Month': 'July',
 'Year': 2012},
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   'Year': 2012},
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   'Year': 2012},
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   'Year': 2012},
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  'Year': 2012},
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  'Unemployment': 3.879,
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  'Year': 2012},
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  'Year': 2012},
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  'CPI': 2.572,
  'Unemployment': 6.566,
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  'CPI': 2.548,
  'Unemployment': 6.566,
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  'Year': 2010},
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  'Month': 'February',
  'Year': 2010},
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  'CPI': 2.561,
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  'Month': 'February',
  'Year': 2010},
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  'CPI': 2.625,
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  'Month': 'March',
  'Year': 2010},
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 'Year': 2010},
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 'Year': 2010},
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 'Year': 2010},
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 'Month': 'June',
 'Year': 2010},
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 'Month': 'June',
 'Year': 2010},
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 'Year': 2010},
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 'Year': 2010},
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 'Month': 'July',
 'Year': 2010},
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 'Month': 'July',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
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 'Unemployment': 6.496,
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 'Month': 'August',
 'Year': 2010},
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 'Month': 'August',
 'Year': 2010},
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 'CPI': 2.577,
 'Unemployment': 6.496,
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  'Year': 2010},
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  'Unemployment': 6.496,
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  'Month': 'September',
  'Year': 2010},
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  'CPI': 2.582,
  'Unemployment': 6.496,
  'Day': 'Thursday',
  'Month': 'September',
  'Year': 2010},
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  'Unemployment': 6.496,
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  'Month': 'September',
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  'Unemployment': 6.768,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
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  'CPI': 2.633,
  'Unemployment': 6.768,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
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  'Weekly_Sales': 280681.2,
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  'CPI': 2.72,
  'Unemployment': 6.768,
  'Day': 'Thursday',
  'Month': 'October',
  'Year': 2010},
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  'CPI': 2.725,
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  'Month': 'October',
  'Year': 2010},
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  'Month': 'October',
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 'Month': 'Novemenber',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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 'Unemployment': 6.768,
 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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  'Year': 2011},
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  'Month': 'July',
  'Year': 2011},
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  'Month': 'July',
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  'Month': 'August',
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 'Unemployment': 6.3,
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 'Month': 'December',
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 'Month': 'December',
 'Year': 2011},
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 'Month': 'January',
 'Year': 2012},
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 'Month': 'January',
 'Year': 2012},
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 'Month': 'January',
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 'Month': 'January',
 'Year': 2012},
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 'Month': 'February',
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     'Year': 2012},
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     'Day': 'Thursday',
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     'Year': 2012},
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     'CPI': 3.63,
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     'Day': 'Thursday',
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     'Month': 'March',
     'Year': 2012},
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     'Day': 'Thursday',
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     'Year': 2012},
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     'CPI': 3.787,
     'Unemployment': 5.943,
     'Day': 'Thursday',
     'Month': 'March',
     'Year': 2012},
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     'CPI': 3.845,
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     'Day': 'Thursday',
     'Month': 'March',
     'Year': 2012},
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     'Unemployment': 5.801,
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 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2012},
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 'Month': 'April',
 'Year': 2012},
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 'Month': 'April',
 'Year': 2012},
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 'Month': 'May',
 'Year': 2012},
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 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2012},
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 'CPI': 3.63,
 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2012},
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 'CPI': 3.561,
 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'May',
 'Year': 2012},
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 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2012},
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 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2012},
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 'Unemployment': 5.801,
 'Day': 'Thursday',
 'Month': 'June',
 'Year': 2012},
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     'Unemployment': 7.259,
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     'Year': 2010},
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     'CPI': 2.514,
     'Unemployment': 7.259,
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     'Year': 2010},
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     'CPI': 2.561,
     'Unemployment': 7.259,
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     'Month': 'February',
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 'Unemployment': 7.259,
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 'Month': 'March',
 'Year': 2010},
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 'Unemployment': 7.259,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
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 'Unemployment': 7.259,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2010},
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 'Month': 'April',
 'Year': 2010},
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 'CPI': 2.77,
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 'Month': 'April',
 'Year': 2010},
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 'Month': 'April',
 'Year': 2010},
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 'CPI': 2.795,
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 'Month': 'April',
 'Year': 2010},
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  'CPI': 2.78,
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  'Year': 2010},
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  'Unemployment': 7.092,
  'Day': 'Thursday',
  'Month': 'May',
  'Year': 2010},
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  'Temperature': 74.95,
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  'CPI': 2.854,
  'Unemployment': 7.092,
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  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.826,
  'Unemployment': 7.092,
  'Day': 'Thursday',
  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.759,
  'Unemployment': 7.092,
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  'Month': 'May',
  'Year': 2010},
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  'CPI': 2.705,
  'Unemployment': 7.092,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},
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  'CPI': 2.668,
  'Unemployment': 7.092,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},
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  'CPI': 2.637,
  'Unemployment': 7.092,
  'Day': 'Thursday',
  'Month': 'June',
  'Year': 2010},
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 'Month': 'July',
 'Year': 2010},
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 'Unemployment': 6.973,
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 'Month': 'July',
 'Year': 2010},
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 'Year': 2010},
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 'Month': 'July',
 'Year': 2010},
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 'Month': 'August',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'August',
 'Year': 2010},
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 'Month': 'August',
 'Year': 2010},

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 'Month': 'August',
 'Year': 2010},
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 'Unemployment': 6.973,
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 'Month': 'September',
 'Year': 2010},
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 'Month': 'October',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'October',
 'Year': 2010},
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 'Month': 'October',
 'Year': 2010},
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 'Month': 'October',
 'Year': 2010},
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 'Unemployment': 7.007,
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 'Month': 'October',
 'Year': 2010},
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 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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 'Day': 'Thursday',
 'Month': 'Novemenber',
 'Year': 2010},
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 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'CPI': 2.869,

 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'CPI': 2.886,
 'Unemployment': 7.007,
 'Day': 'Thursday',
 'Month': 'December',
 'Year': 2010},
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 'Day': 'Thursday',
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 'Year': 2010},
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 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'Holiday_Flag': 0,
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 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'CPI': 3.01,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'January',
 'Year': 2011},
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 'CPI': 2.989,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
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 'Holiday_Flag': 1,
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 'CPI': 3.022,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'February',

 'Year': 2011},
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 'CPI': 3.045,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
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 'CPI': 3.065,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'February',
 'Year': 2011},
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 'CPI': 3.288,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'CPI': 3.459,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'Holiday_Flag': 0,
 'Temperature': 65.07,
 'Fuel_Price': 3.488,
 'CPI': 3.488,
 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'Unemployment': 6.858,
 'Day': 'Thursday',
 'Month': 'March',
 'Year': 2011},
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 'CPI': 3.524,
 'Unemployment': 6.855,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2011},
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 'Weekly_Sales': 1534594.0,
 'Holiday_Flag': 0,
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 'Fuel_Price': 3.622,
 'CPI': 3.622,
 'Unemployment': 6.855,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2011},
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 'CPI': 3.743,
 'Unemployment': 6.855,
 'Day': 'Thursday',
 'Month': 'April',
 'Year': 2011},
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 'Holiday_Flag': 0,
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 'Fuel_Price': 3.807,
 'CPI': 3.807,
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 'Year': 2011},
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     'Year': 2012},
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     'Month': 'January',
     'Year': 2012},
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     'Unemployment': 8.256,
     'Day': 'Thursday',

  'Month': 'January',
  'Year': 2012},
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  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'January',
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  'Day': 'Thursday',
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  'Temperature': 18.79,
  'Fuel_Price': 3.103,
  'CPI': 3.103,
  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2012},
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  'CPI': 3.113,
  'Unemployment': 8.256,
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  'Month': 'February',
  'Year': 2012},
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  'CPI': 3.129,
  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'February',
  'Year': 2012},
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  'CPI': 3.191,
  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'March',
  'Year': 2012},
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  'Temperature': 30.1,
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  'CPI': 3.286,
  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'March',
  'Year': 2012},
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  'Temperature': 37.29,
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  'CPI': 3.486,
  'Unemployment': 8.256,
  'Day': 'Thursday',
  'Month': 'March',
  'Year': 2012},
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 'Month': 'April',
 'Year': 2012},
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 'Year': 2012},
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  'Unemployment': 7.872,
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  'Year': 2012},
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  'Unemployment': 7.872,
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  'Unemployment': 7.872,
  'Day': 'Thursday',
  'Month': 'August',
  'Year': 2012},
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  'Year': 2012},
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  'Unemployment': 7.872,
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  'Year': 2012},
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  'Year': 2012},

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      'CPI': 3.659,
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      'Unemployment': 7.872,
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      'Year': 2012},
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      'Unemployment': 7.557,
      'Day': 'Thursday',
      'Month': 'October',
      'Year': 2012},
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      'Temperature': 41.43,
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      'CPI': 3.76,
      'Unemployment': 7.557,
      'Day': 'Thursday',
      'Month': 'October',
      'Year': 2012},
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      'Fuel_Price': 3.75,
      'CPI': 3.75,
      'Unemployment': 7.557,
      'Day': 'Thursday',
      'Month': 'October',
      'Year': 2012},
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      'Holiday_Flag': 0,
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      'CPI': 3.686,
      'Unemployment': 7.557,
      'Day': 'Thursday',
      'Month': 'October',
      'Year': 2012},
     ...]
```

In [23]:
```
# inserting cleaned and enriched data into the mongodb
client=get_connection(connection_string)
mydb=client[db_name]
collection=mydb['enriched_sales_data']
# inserting code has been commented as of now, because we dont want to insert same documents multiple times to
# collection.insert_many(data_dict)
```

Out[23]: <pymongo.results.InsertManyResult at 0x18d7110b730>