(643	1 12-02-2010 1641957.44 1 38.51 2.548 211.242170 8.106 1 19-02-2010 1611968.17 0 39.93 2.514 211.289143 8.106 1 26-02-2010 1409727.59 0 46.63 2.561 211.319643 8.106 1 05-03-2010 1554806.68 0 46.50 2.625 211.350143 8.106 shape 35, 8)
Ston Date Weel Hol: Temp Fuel CPI Uner dtyp	<pre>e</pre>
df.dstor	2.224028e+08 2.753824e+08 5.758674e+07 2.995440e+08
max_stor 1 2 3 4 5 Name	<pre>4.547569e+07 e: weekly_sales, dtype: float64 _sales = df.groupby('store')['weekly_sales'].sum() _sales.head() re</pre>
2) V	<pre>clusion: - Store 20 has maximum sales Which store has maximum standard deviation _std = df.groupby('store')['weekly_sales'].std() _std.head()</pre>
max_14	155980.767761 237683.694682 46319.631557 266201.442297 37737.965745 e: weekly_sales, dtype: float64 _std.index[max_std.argmax()] clusion: - Store 14 has maximum standard deviation
max max stor 1 2 3 4 5 Name	Pefficient of mean to standard deviation _mean = df.groupby('store')['weekly_sales'].mean() _mean.head() re 1.555264e+06 1.925751e+06 4.027044e+05 2.094713e+06 3.180118e+05 e: weekly_sales, dtype: float64 = max std/max mean * 100
cv.l	fficient of variation - overall weeklysales
coef	
df[df[df.]	<pre>traction year and month from the date variable 'year']=pd.DatetimeIndex(df['date']).year 'month']=pd.DatetimeIndex(df['date']).month store</pre>
df [qua: qua: qua: 100 101 102 103	roup_by 2012 'quartile'] = 0 rterly = df.groupby('year').get_group(2012) rterly.head() store
# Do	<pre>1 03-02-2012 1636339.65 0 56.55 3.360 220.172015 7.348 2012 3 0 options.mode.chained_assignment = None efining Quarterly range using for-loop i in quarterly['month']: if i in [4,5,6]: quarterly['quartile'][quarterly[quarterly['month']==i].index] = 'q2' elif i in [7,8,9]: quarterly['quartile'][quarterly[quarterly['month']==i].index] = 'q3' rterly.head()</pre>
q2 =	1 13-01-2012 1459601.17
# G. q3 = q3 = q3 = 1 stor 1 2 3 4 5 Name	e: weekly_sales, dtype: float64 rouping q3 datas = quarterly.groupby('quartile').get_group('q3').groupby('store')['weekly_sales'] = q3.sum() head() re 18633209.98 22396867.61 4966495.93 25652119.35 3880621.88 e: weekly_sales, dtype: float64
Q3_3 stor 1 2 3 4 5 Name	-2403755.60 -2688256.00 -596172.23 -2732065.81 -546640.33 e: weekly_sales, dtype: float64 total.index[Q3_total.argmax()]
- Qu 4)F tog	arterly growth rate for stores is not good in 2012 ind out holidays which have higher sales than the mean sales in non-holiday season for al ether. y_data = pd.read_csv('Walmart_Store_sales.csv') y_data['Date'] = pd.to_datetime(copy_data['Date'], format='%d-%m-%Y')
supe ['Da' # c. labota[# c. than	reating dataframe for superbowl holidays sales erbowl_df = copy_data[(copy_data['Date']=='2010-02-12') (copy_data['Date']=='2011-02-11') (cate']=='2012-02-10') (copy_data['Date']=='2013-02-08')] reating dataframe for labour_day holidays sales our_day_df = copy_data[(copy_data['Date']=='2010-09-10') (copy_data['Date']=='2011-09-09') 'Date']=='2012-09-07') (copy_data['Date']=='2013-09-06')] reating dataframe for thanksgiving holidays sales nksgiving_df = copy_data[(copy_data['Date']=='2010-11-26') (copy_data['Date']=='2011-11-25') a['Date']=='2012-11-23') (copy_data['Date']=='2013-11-29')]
chr: a['] supe Fals supe	erbowl_df['Weekly_Sales'].mean() > labour_day_df['Weekly_Sales'].mean()
# G. hol: hol: 1041	<pre>n sales of Non-holiday sales rouping Non holidays using holiday_flag from dataset iday_grp = copy_data.groupby('Holiday_Flag').get_group(0)[['Date','Weekly_Sales']] iday_grp.Weekly_Sales.mean() 1256.3802088564 erbowl_df['Weekly_Sales'].mean() > holiday_grp.Weekly_Sales.mean()</pre>
True	<pre>our_day_df['Weekly_Sales'].mean() > holiday_grp['Weekly_Sales'].mean() e nksgiving_df['Weekly_Sales'].mean() > holiday_grp['Weekly_Sales'].mean() e istmas_df['Weekly_Sales'].mean() > holiday_grp['Weekly_Sales'].mean()</pre>
Tha sto	anksgiving, superbowl,Labour days has higher mean sales than mean of non-holidays for a res together vide a monthly and semester view of sales in units and give insights ort matplotlib.pyplot as plt rouping 2010 datas
Prove # g. yea: yea: yea: yea: # p. # p. plt	anksgiving, superbowl, Labour days has higher mean sales than mean of non-holidays for a res together wide a monthly and semester view of sales in units and give insights ort matplotlib.pyplot as plt rouping 2010 datas r10 = df.groupby('year').get_group(2010).groupby('month')['weekly_sales'].sum() r10.head() th 4.223988e+07 1.915869e+08 1.862262e+08 1.838118e+08 2.806119e+08 e: weekly_sales, dtype: float64 r10.plot(x='month',y='weekly_sales') 1t.xticks(year10('month'), rotation='vertical', size=10) 1t.ylabel('Weekly_Sales \$") .show() le8
# g. yea: yea: wont 1 2 3 4 5 Name 2 5 10 10 10 10 10 10 10 10 10 10 10 10 10	anksgiving, superbowl, Labour days has higher mean sales than mean of non-holidays for a res together Adde a monthly and semester view of sales in units and give insights Out matplotlib.pyplot as plt Touping 2010 datas T10 = df.groupby('year').get_group(2010).groupby('month')['weekly_sales'].sum() T10.head() th 4.223988e+07 1.915869e+08 1.83262e+08 1.832818e+08 2.8068119e+08 e: weekly_sales, dtype: float64 T10.plot(x='month',y='weekly_sales') it.xticks(year10['month'],rotation='vertical',size=10) it.ylabel('Weekly_Sales's') is.show()
# 9. yea: # p. # p. p. t. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	anksgiving, superbowl, Labour days has higher mean sales than mean of non-holidays for a rest together Add a monthly and semester view of sales in units and give insights out matplotlib.pyplot as plt rouping 2016 datas rid = df.groupby('year') .get_group(2018).groupby('month')['weekly_sales'].sum() rid.head() rid.yillseving
# 92 Yea: yea: # p. # p. plt 3.0 - 2.5 - 2.0 - 1.5 - 1.0 - 0.5 - Yea: yea: yea: yea: yea: yea: yea: yea: y	anksgiving, superbowl, Labour days has higher mean sales than mean of non-holidays for a rest together inde a monthly and semester view of sales in units and give insights ort matplotlib.pyplot as plt ranging 2010 datas 10 - d. (200988-07) 1.200888-07 1.200888-07 1.200888-07 1.200888-08 1.300818-08 1.300818-08 1.300818-08 1.300818-08 1.300818-08 1.300878-08 1.3
# 90 yea: wont 1 2 3 4 5 Name 1 2 3 4 5 Name 3 4 5	and squiring, superbowl, Labour days has higher mean sales than mean of non-holidays for a rest together Adds a monthly and semester view of sales in units and give insights and a monthly and semester view of sales in units and give insights and a control of the sales of the
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# 9	Integrating superbowt, Labour days has higher mean sales than mean of non-holidays for rest together Add a monthly and senector view of sales in units and give insights Out autabout the popular as pits Out and the popular as pits out are popular the popular the popular as pits out and the popular as pits out a
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