Conclusion by date and time

We created Date, Time, Month, and Days of Week from our original data set using InvoiceDate column with the help of pandas.

ınamed: 0	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country	Date	Time	Day of Week	Month	Sales_Total
0	536365	85123A	WHITE HANGING HEART T- LIGHT HOLDER	6	2010-12-01 08:26:00	2.55	17850.0	United Kingdom	01/12/2010	08:26	Wednesday	December	15.30
1	536365	71053	WHITE METAL LANTERN	6	2010-12-01 08:26:00	3.39	17850.0	United Kingdom	01/12/2010	08:26	Wednesday	December	20.34
2	536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	2010-12-01 08:26:00	2.75	17850.0	United Kingdom	01/12/2010	08:26	Wednesday	December	22.00
3	536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	2010-12-01 08:26:00	3.39	17850.0	United Kingdom	01/12/2010	08:26	Wednesday	December	20.34
4	536365	84029E	RED WOOLLY HOTTIE	6	2010-12-01	3.39	17850.0	United	01/12/2010	08:26	Wednesday	December	20.34

Then we analyzing these data we got the results-

1. Transaction number every month-

November	65598
October	50695
December	44511
September	40822
May	28908
June	27836
March	27822
August	27662
July	27502
April	23198
January	21912
February	20363

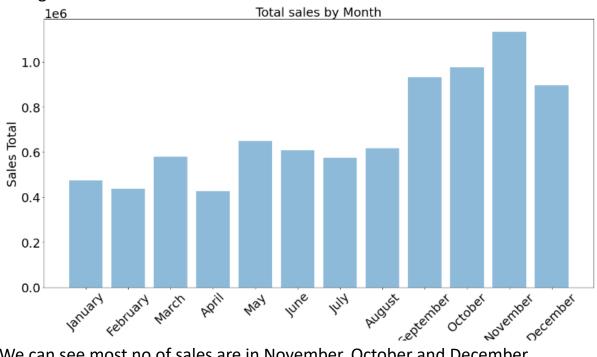
Name: Month, dtype: int64

2. Total sales by every month-

Month	
January	475074.380
February	436546.150
March	579964.610
April	426047.851
May	648251.080
June	608013.160
July	574238.481
August	616368.000
September	931440.372
October	974603.590
November	1132407.740
December	897110.400

dtype: float64

3. Histogram -

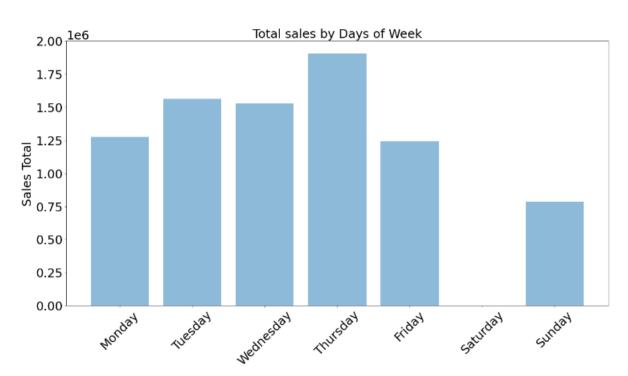


We can see most no of sales are in November, October and December.

4. Sales on days of week-

Day of Week				
Monday	1274551.511			
Tuesday	1563193.591			
Wednesday	1530477.490			
Thursday	1906108.190			
Friday	1241316.181			
Saturday	0.000			
Sunday	784418.851			
dtyne: float64				

5. Histogram-



Most sales are around Thursday but no sale on Saturday, may be Saturday is a off day for the company.