## ASSIGNMENT NO. 4

# 1 TITLE:

Use Business intelligence and analytics tools to recommend the combination of share purchases and sales for maximizing the profit.

# 2 MATHEMATICAL MODEL:

mathematical model is given as below,

S=fs,e,X,Y,Fme,DD,NDD,Mem sharedg

Where,

s = Initial State

e = End State

X=input Datasets of share market.

Y=output Bar chart of frequency distribution of share market.

Fme=Algorithms used (Apriori)

for eg.fnextdistance(),estimate(),pathFind()g

DD=Deterministic Data Share market data.

NDD=Non-Deterministic Data.

Mem-shared=memory shared by the applications.

### 3 THEORY:

Definition: It is a place where shares of pubic listed companies are traded. The primary market is where companies float shares to the general public in an initial public offering (IPO) to raise capital.

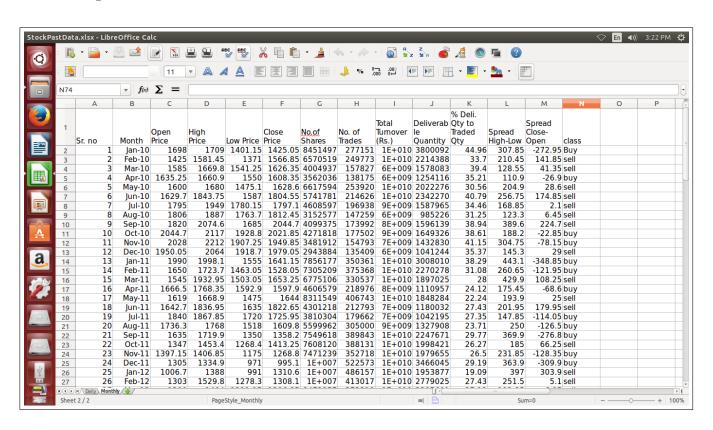
Description: Once new securities have been sold in the primary market, they are traded in the secondary marketwhere one investor buys shares from another investor at the prevailing market price or at whatever price both the buyer and seller agree upon. The secondary market or the stock exchanges are regulated by the regulatory authority. In India, the secondary and primary markets are governed by the Security and Exchange Board of India (SEBI).

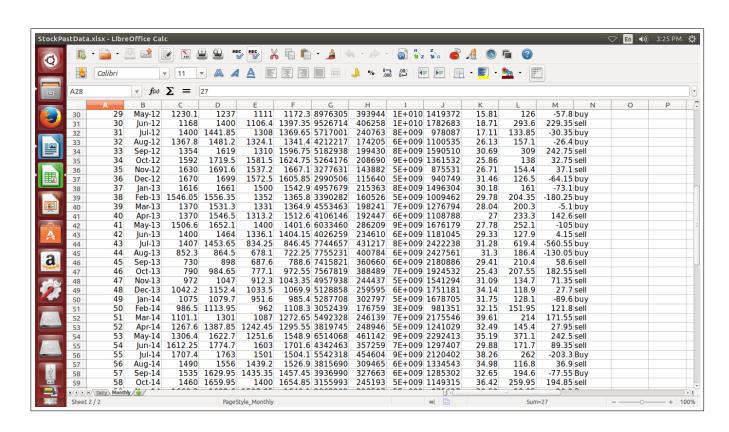
A stock exchange facilitates stock brokers to trade company stocks and other securities. A stock may be bought or sold only if it is listed on an exchange. Thus, it is the meeting place of the stock buyers and sellers. India's premier stock exchanges are the Bombay Stock Exchange and the National Stock Exchange.

Conclusion: Hence we have used business intelligence and analytics tools KNIME to recommend the combination of share purchases and sales for maximizing the profit.

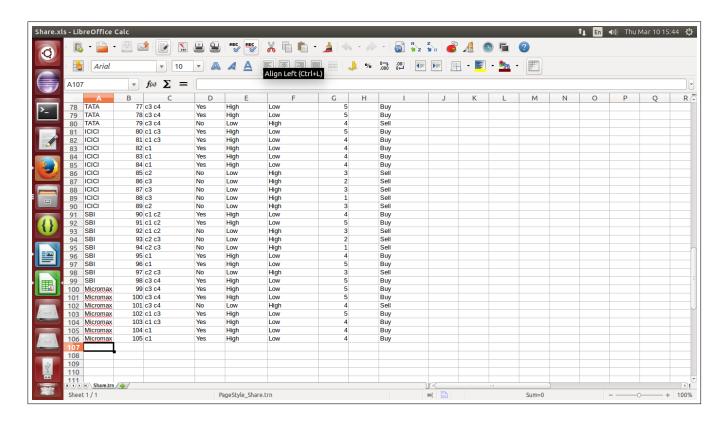
#### • Input:

Training Data:



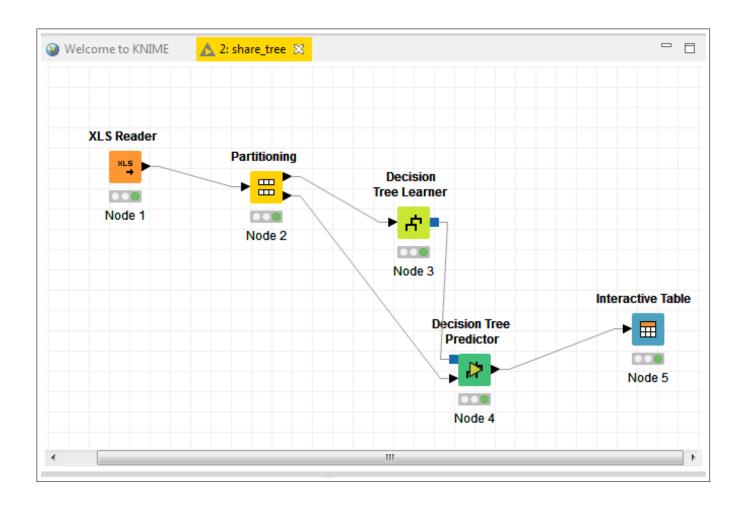


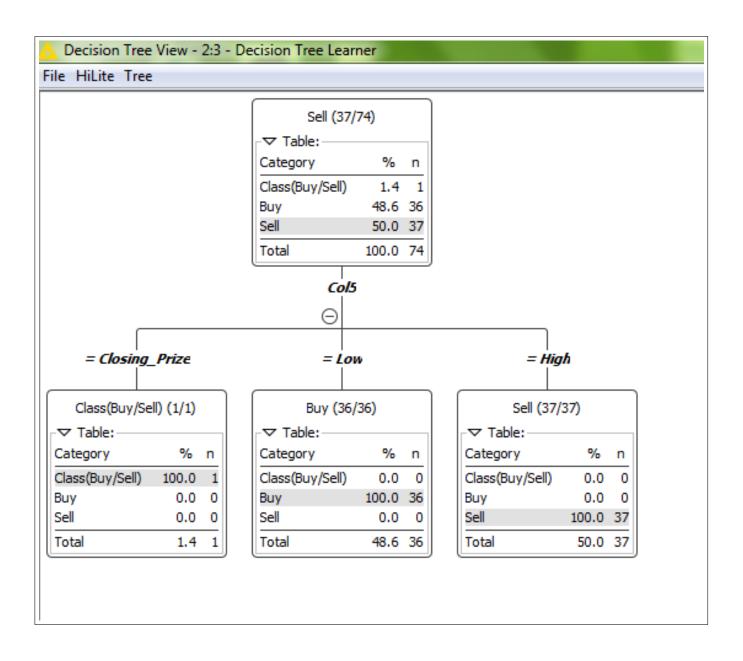
#### Transactional Data:



# • output

e Hilite Iva	vigation View	Output							
Row ID	S Col0	S Col1	S Col2	S Col3	S Col4	S Col5	S Col6	S Col7	S Predicti
Row5	TCS	5.0	c3	No	Low	High	1.0	Sell	Sell
Row7	TCS	7.0	c1 c2	Yes	High	Low	4.0	Buy	Buy
Row10	Wipro	10.0	c2 c3	No	Low	High	2.0	Sell	Sell
Row12	Wipro	12.0	c1	Yes	High	Low	4.0	Buy	Buy
Row13	KPIT	13.0	c1	Yes	High	Low	5.0	Buy	Buy
Row17	KPIT	17.0	c3 c4	Yes	High	Low	5.0	Buy	Buy
Row18	KPIT	18.0	c3 c4	No	Low	High	4.0	Sell	Sell
Row20	Docomo	20.0	c1 c3	Yes	High	Low	4.0	Buy	Buy
Row22	Docomo	22.0	c2	No	Low	High	3.0	Sell	Sell
Row26	Docomo	26.0	c2	No	Low	High	3.0	Sell	Sell
Row33	Airtel	33.0	c1	Yes	High	Low	5.0	Buy	Buy
Row39	Facebook	39.0	c1 c3	Yes	High	Low	5.0	Buy	Buy
Row42	Facebook	42.0	c1	Yes	High	Low	4.0	Buy	Buy
Row50	Google	50.0	c1 c2	No	Low	High	3.0	Sell	Sell
Row59	Apple	59.0	c3 c4	No	Low	High	4.0	Sell	Sell
Row60	Apple	60.0	c1 c3	Yes	High	Low	5.0	Buy	Buy
Row61	Apple	61.0	c1 c3	Yes	High	Low	4.0	Buy	Buy
Row62	Apple	62.0	c1	Yes	High	Low	4.0	Buy	Buy
Row67	Apple	67.0	c2	No	Low	High	3.0	Sell	Sell
Row68	Apple	68.0	c1 c2	Yes	High	Low	4.0	Buy	Buy
Row69	Apple	69.0	c1 c2	Yes	High	Low	5.0	Buy	Buy
Row71	TATA	71.0	c2 c3	No	Low	High	2.0	Sell	Sell
Row76	TATA	76.0	c3 c4	Yes	High	Low	5.0	Buy	Buy
Row78	TATA	78.0	c3 c4	Yes	High	Low	5.0	Buy	Buy
Row80	ICICI	80.0	c1 c3	Yes	High	Low	5.0	Buy	Buy
Row81	ICICI	81.0	c1 c3	Yes	High	Low	4.0	Buy	Buy
Row83	ICICI	83.0	c1	Yes	High	Low	4.0	Buy	Buy
Row86	ICICI	86.0	c3	No	Low	High	2.0	Sell	Sell
Row89	ICICI	89.0	c2	No	Low	High	3.0	Sell	Sell
Row94	SBI	94.0	c2 c3	No	Low	High	1.0	Sell	Sell
Row97	SBI	97.0	c2 c3	No	Low	High	3.0	Sell	Sell
Row99	Micromax	99.0	c3 c4	Yes	High	Low	5.0	Buy	Buy





Roll No.	Name of Student	Date of Performance	Date of Submission	Sign.
309	Apurve Deshpande	9/2/2016	3/3/2016	