DWDM Assignment-1:-B-Mohan Sai Dinesh 20pala0521 Data Mining: Dala Mining is the process of sorting through large data sets to identify patterns and relationships that can help solve bussiness probleme through data analysis, Different types of data can be mined in data. Mining. Based on data functions -lities, patterns are classified into two categories. > Descriptive L) Predictive Descriptive: - It deals with general character stics and converts them into relevant and helpful information

Clusters association frequent Correlation Clars/
Patters Concept Clusters: - This is for information of a grp of similar data points. Each point in the collect tion is somewhat similar but very different from other members of different groups,

Class: For instance, in a library, the clang or items for borrowed items include books and Journals

Frequent patterns: These are data points that occur more often in dataset

Association; It shows the relationship blue data & pre-defined association rules.

Correlation: It is performed to find statistical correlation blue two data points.

Predictive Patterns: - It predicts future values by analyzing the data patterns and their outcomes based on the previous data.

Outlier Endution Regression Classification.

Analysis Prolysis

Classification: - It predicts the Cabelof unknown data points with help of known data points

Regression: - It is used to find the missing numeric values

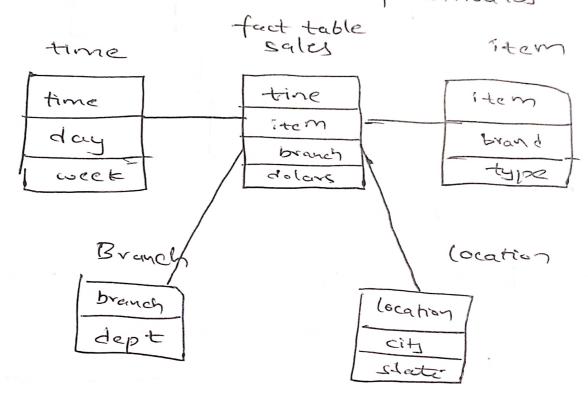
Butlier: It is different from all the other points in the dataset.

2) Schema is a logical description of the entire data base.

Stor Schema.

-> Each dimension in this schema is represented by 1D table.

-> the table corrtains the set of attributes



ontains the keys to each of 4 Dimensions

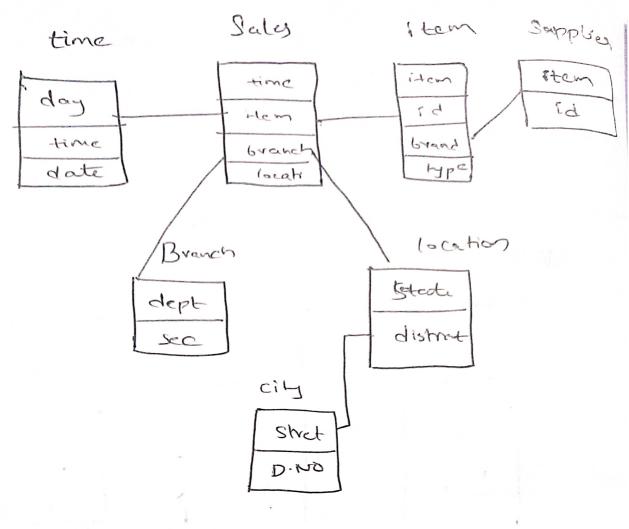
Snowflake Schema.

- Some tables are normalized

- 7 the normalization salits into addition tooles

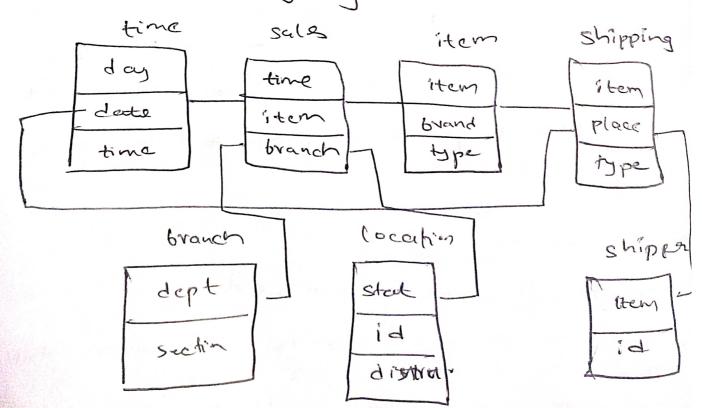
The Due to normalization, the redundancy

is reduced, and easy to save storage space.



fact Constellation Schema;

also known as galaxy schema



3) Apriori Algorithmia It refers to algorithm which is used to calcuate the association rules 6/w objects. It operates on a database containing a huge no of transactions.

Aprovi algorithm helps customers to bug their products with ease and increases their sales performance on particular store

TID	Rice	Pulse	Oil	Aprile	
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ts	0	0	Ò	1	
ty li	1	, , ,	0	1	
ts			1		
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Step 1:

Rice	4
Pule	5
01(Ч
Aprle	4

It indicates the products trequently bought

Step 21 create a pair of produch

 $\begin{array}{cccc} RP \rightarrow 4 & PO \rightarrow 4 \\ RO \rightarrow 3 & PM \rightarrow 3 \\ RM \rightarrow 2 & OM \rightarrow 2 \end{array}$

step 3: Implement the support to 50%- and continued products more than 50%- it, c 3.

we can get RP, PO, RO, PM.

Step 4: Now set of three products

- RP and RO give RPO

-> 100 and PM give POM

StepTile., RPO - 4
POM - 3

figure out that customers set of product is RPOI