## LP2-Assignment A1

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Title: Data mining

Problem Statement: - Fox an organization of your choice, choose a set of business processes.

Design stax / SnowPlake schemas for analyze these processes. Greate a fact constellation schema combining them. Extract data from diff. data sources, apply switable transformations of load into destination tables using an

Distriction of deta mining.
2) Understand basic principles of data mining.

Outcome: Student will be able to explact useful info from different data sources.

2) pentaho

5/W & H/W:-

1764 517 05

32 4 GB RAM

Star schema: The most common modelling paradigm is the star schema in which the data were house contains Dharge central data table containing

the bulk of the data with no redundancy & 2) a set of smaller attendant table one

for each dimension.

The schema graph resembles a starboat with dimensions of table displayed in a radial pattern around the centre fact table Snowflake schema: It is the variant of star schema model where so dimensional table are nomalized, thereby for the further & splitting the data into additional tables. The resulting schema graph forms a shape similar to a snowflake. Fact constellation: - Sophisticated applications may require multiple fact tables to share dimension tables. This kind of schema can be viewed as a collection of stars & hence is called a galaxy or a fact constellation. En: - It is a abbreviation for Extract, Bansform I wand. In this process, an ETI tool extract the data from diff. RDBMS source systems than toanshooms the data like Epplying calculations concatenations, etc. and then boad the data into various Data warehouse system.

Pentaho: - With an intuitive graphical, drag & Loop environment & a proven scalable, standards based architecture, Data integration is in orlasingly the choice for org. over traditional ETI tools. Algorithm:-1) Start Pentaho. 2) Create a new transformation.

8) Retorche data from a flat file

4) Filter records

5) Load data from lookup file. 6) complete transformation Condulion: Thus we have learnt to extract data from différent data sources apply suitable transformations & load into deshination tables using an ETL tool.