DW implementation includes loading preliminary data, ETH implementing transformation program, design user interface and develop standard query and reports. Datawarch implementation. Extract Transform Load (ETL) coveris a process of how the data are loaded from the source system to the Dw. The sequence is extract, clean, transform, load The objective of extract step is to retrieve all the > Extract required data from the source system with as little resources as possible & in such a manner that it doesn't affect the performance, response time of the system. Ways to perform extract 1) Update Notification: System is able to provide been changed & describbe the change. 2) Incremental Extract: The Lystem is able to modified & provide an extract of such record. 3) Full Extract: It suguisses beefing a copy of the same format . in order to be able to identify changes. Thearing is the important step as it ensures the quality of the data in the data warehouse - Clean e.g.) making i dentifier unique (Male/M, Female/7) 2) convert + no. hip coder to standard format

of the law to parage

true Line

- This step applies set of succes to transform the 3) Transform data from the source to the target. It requires joining data, sorting, donning new calculated values etc.
 - Dwing the load it is necessary to ensure that 4) Load load is performed directly & with as little resources as possible The target of this process is a database.

ETL Tools

(Eq)

- 1) Informatica-Power center
- 2) IBM Lognos Data Manager
- 3) Microsoft SQL Souver Integration Services
- 4) AB-initio

Data Warehouse Design

(W. r. + S. E).

(View) Design of DWH.

Four different views regarding the design of D/w are

- 1) Top-down view It allows the selection of the relevant information necessary for the DW
- 2) Data Source View It exposes the information being captured, stored and managed by operational systems
- et includes fact & dimension tables.
- 4) Businers Query Vew It is perspective of data in ow from the view point of the end user.

The workhouse design process consist of following steps: 1) choose a business process to model e.g. sales, inventory, account, administration etc. 2) choose the grain of the business process
grain is the atomic sevel of data to be 5) chaose the dimension that will apply to each fact table. e.g. Time, item, supplier, etc. 4) Choose the majors that will populate each fact table record. Measures are numeric quantities. e.g. Dollars sold, unit sold.