The Data warehouse Toolkit – Guide to Dimensional modelling

Data Capture and Data Analysis

Information is a very important asset and can be used either for operation record keeping or for analytical decision making. Some common attributes of an operational system are they are optimized to process transactional data very efficiently and that they usually don’t keep historical information. On the other hand, the Business intelligence systems are used to measure and evaluate performance. History is normally preserved.

What is the goal of a data warehouse?

To provide a scalable, efficient and easy way to access information

The way the data are structured should be understandable and intuitive to business users and not only to developers. In addition, the users should be able to use tools to access the data without large wait times – querying of the database should be fast

In addition, they data should be clean, consistent and credible – data quality is a very important aspect

There should be a single version of truth of the data

A data warehouse can help decision making – it’s a decision support system

But to be successful – the business users should actively use it and the management of a business or organization should perceive it as strategic.

Dimension modelling can provide data that are easy to understand and can improve query efficiency

ETL -The extract transform and Load system

Database systems, a practical approach

*Business intelligence (BI) is an umbrella term that refers to the processes for collecting and analyzing data, the technologies used in these processes, and the information obtained from these processes with the purpose of facilitating corporate decision making*

A single integrated view of the data is presented to the user