**Assignment No. 7**

Build a Data Warehouse for X-Mart

* Title: Design and Implementation of a Data Warehousing System for X-Mart.
* Objective : To design and implement a data warehouse for a X-Mart taking into consideration the requirements of the upper hierarchy.
* Introduction: According to W. H. Inom, father of Data Warehousing, a data warehouse is subject oriented, integrated, time variant and non volatile collection of data that is required by an organization for the decision making process. Data warehouse works on Extraction, Transformation and Load mechanism.
* Theory: Data warehousing involves the process of collecting, storing, and managing data from various sources to provide valuable insights for decision-making purposes. Dimensional modeling is a popular technique used in data warehousing, where data is organized into dimensions (descriptive attributes) and facts (measurable metrics).
* Business Requirement : X-Mart, a chain of malls, requires a data warehousing system to integrate and analyze sales data from its various stores. The system should provide management with quick access to relevant information for decision-making and ensure a high return on investment (ROI) through improved operational efficiency and strategic planning.

