**An Introduction to Data Warehousing**

* It is a subject oriented, integrated, time variant, non-volatile collection of data in support of managements system.
* It is a collection of data designed to support management decision making by presenting a coherent picture of business conditions at a single point

**Purpose of Data Warehouse**

* The main purpose of data warehouse is to provide a central location for data that can be quickly analyzed and queried.
* It allows companies to access and analyze all of their data to generate accurate business insights.

**Data Warehouse Architecture**

* Data warehouse architecture is a method for defining the overall architecture of data communication processing and presentation for end-clients.
* It organizes data storage, retrieval, and management for analytics.

**Operational Data Store**

* + - An operational data store (ODS) is a database that integrates data from multiple sources for real-time analysis and operational reporting.
    - ODS is also known as On-Line Transfer Processing (OLTP).

**OLTP Vs Warehouse Applications**

* Online transaction processing (OLTP) and data warehousing are both relational databases.
* Oltp holds current data and Warehouse holds historical data.

**Data Mart**

* A data mart is a simple form of data warehouse focused on a subject or line of business.
* It makes data available to a specific group of users, this allow users to quickly access data.

**Data Marts Vs Data Warehouses**

* A data mart is a different marketing term for the same technology, a data warehouse stores data from transactionals systems.

**Data Warehouse Lifecycle**

* The Data Warehouse Development Lifecycle More than anything else, the data warehouse development lifecycle is about using a structured approach to design, build, and maintain data warehouses.
* It is a framework that encompasses various stages that guide the development process from inception through deployment and ongoing maintenance.