**Data Warehousing Exercise**

**Learning Goal: understanding key data warehousing exercises**

**Please answer the following questions.**

1. **What is the goal of data warehousing?**

A: The goal of data warehousing is to integrate data from multiple sources into a single repository, from which users can easily run queries, produce reports and perform analysis.

Used then as a tool for Business Intelligence.

1. **Describe four characteristics of data stored in a data warehouse.**

**A:**

1. Subject-oriented: The warehouse is organised around subjects (e.g., customers, products) rather than application areas (e.g., customer invoicing).
2. Integrated: Source data is often inconsistent and must be made consistent to present a unified view of the data.
3. Time-variant: data in warehouse is accurate and valid only at some point in time, or over some time interval
4. Non-volatile: the data is refreshed from operational systems on a regular basis, not updated in real time. New data is continually integrated with previous data
5. **List five components of a Data Warehouse.**

**A:**

1. Warehouse Manager
2. Query Manager
3. Metadata
4. Operational Data
5. Archive/Back up Data