

**Assignment: 2**

**Subject Name: Introduction to Data Mining and data warehouse**

**Date of Submission: 10/1/2023**

**Title: Data Warehouse**

---

1. What is data warehouse explain with four keywords from the definition given by William H. Inmon.
2. Differentiate between operational database and data warehouse.
3. Explain three-tier architecture of data warehouse with diagram.
4. What is data cube? Explain 3D and 4D representation with example.
5. Define following terms in respect to data cube.

1) Dimensions	5) Cuboid
2) Dimension table	6) Base cuboid
3) Facts	7) Apex cuboid
4) Fact table	
6. Explain cuboid structure of data cube with diagram showing different cuboid levels.
7. Explain various OLAP operations with example.
8. Explain data warehouse design process with diagram.
9. Explain data warehouse usage for information processing.