**Activity -1**

**Day-1 Summary**

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1) **Introduction to Data Warehousing:**

* A large storage system that keeps data from many different sources in one place
* Like a giant digital library that organizes historical and current business data

2) **Purpose of Data Warehouse:**

* Helps companies make better decisions by looking at all their data together
* Makes it easy to analyse years of business information in one place

3) **Data Warehouse Architecture:**

* Has different layers for storing raw data, processed data, and analysis tools
* Built like a pyramid with data flowing from bottom (raw) to top (reports)

4) **Operational Data Store (ODS):**

* A temporary storage place for current business data before it goes to the warehouse
* Like a staging area that holds recent data for quick access

5) **OLTP vs. Warehouse Applications:**

* OLTP handles day-to-day transactions (like sales at a store)
* Warehouse stores historical data for analysis and reporting

6) **Data Marts:**

* Smaller versions of data warehouses focused on specific departments
* Like mini-warehouses for marketing, sales, or finance teams

7) **Data Marts vs. Data Warehouses:**

* Data marts are smaller and focused on one area of business
* Data warehouses are bigger and cover the entire organization

8) **Data Warehouse Lifecycle:**

* Starts with planning and collecting data from different sources
* Ends with maintaining and updating the warehouse regularly as new data comes in