

<div><div>Creating a Corporate Data Warehouse</div><div><div>• Steps to Build a Data Warehouse:</div><div>1. Business Requirement Analysis: Identify what kind of data is necessary for decision-making.</div><div>2. Data Collection: Source data from multiple systems such as operational databases, third-party systems, and external data sources.</div><div>3. Data Cleansing & Integration: Data is cleansed to remove inconsistencies and duplicates, then integrated to form a unified dataset.</div><div>4. Data Modeling: The data is organized into schemas (e.g., star schema or snowflake schema) for easy retrieval.</div><div>5. ETL Process: (Extract, Transform, Load) enables the transfer of data into the data warehouse.</div><div>6. User Access & BI Tools: BI tools (like Tableau, Power BI) are connected for reporting, analysis, and visualization.</div></div></div>

Tools for Data Warehousing

• Popular Tools:

◦ Microsoft SQL Server: Provides integrated tools for DW and BI.

◦ Oracle: Offers comprehensive features like data integration, analytics, and in-memory processing.

◦ Amazon Redshift: A cloud-based data warehouse solution offering scalability and quick access to data.

◦ Google BigQuery: A fully managed, serverless data warehouse that allows large-scale data analysis.