




Data Warehousing/Mining

Comp 150 DW

*Data Warehousing and OLAP
Technology for Data Mining*

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Chapter 2: Data Warehousing and OLAP Technology for Data Mining

- ❖ What is a data warehouse?
- ❖ A multi-dimensional data model
- ❖ Data warehouse architecture
- ❖ Data warehouse implementation
- ❖ Further development of data cube technology
- ❖ From data warehousing to data mining

What is a Data Warehouse?

- ❖ Defined in many different ways, but not rigorously.
 - A decision support database that is maintained separately from the organization's operational database
 - Support information processing by providing a solid platform of consolidated, historical data for analysis.
- ❖ “A data warehouse is a subject-oriented, integrated, time-variant, and nonvolatile collection of data in support of management's decision-making process.” —W. H. Inmon
- ❖ Data warehousing:
 - The process of constructing and using data warehouses