

# Data warehouse

## Definition

A data warehouse is a central [data storage](#) for managing structured data.

## DMBoK2

Data Warehousing describes the operational extract, cleansing, transformation, control, and load processes that maintain the data in a data warehouse so that it can be used by BI. The data warehousing process focuses on enabling an integrated and historical business context on operational data by enforcing business rules and maintaining appropriate business data relationships. Also includes processes that interact with Metadata repositories.

## DDDM

- An integrated, centralized decision support database and the related software programs used to collect, cleanse, transform, and store data from a variety of operational sources to support Business Intelligence. A Data Warehouse may also include dependent [data marts](#). (DAMA-DMBOK Guide, 1st edition, pg. 197.)
- A subject oriented, integrated, time variant, and non-volatile collection of summary and detailed historical data used to support the strategic decision-making processes for the corporation. ("What is a Data Warehouse?" W.H. Inmon, Prism, Volume 1, Number 1, 1995)
- A copy of [transaction data](#) specifically structured for query and analysis. (Ralph Kimball, The Data Warehouse Toolkit, pg. 310.)

## Note

A data warehouse makes it easy to store and manage large amounts of data, and to run complex queries against the data.

## Relation

Data warehouse	is child of	<a href="#">data storage</a>
Data warehouse	has subset	<a href="#">data mart</a>

## Reference

- Rani, Isha (2023). [Key data terms explained](#). LinkedIn Post.
- Earley, S. (2011). The DAMA Dictionary of Data Management (DDDM). Technics Publications, LLC, New Jersey.

[All](#), [DMBoK2](#), [DDDM](#)

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