



Datamart vs Data warehouse

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Introduction

Data warehouses and data marts are both **data storage** systems used for **business intelligence** and **analytics**, but they have some key differences.

Data warehouse

- **Central repository** of historical and transactional data from **multiple sources** across an organization.
- Designed to store and analyze **large volumes** of data to support enterprise-wide decision-making.
- Data warehouses are typically **subject-oriented**, meaning they focus on a specific business area or problem.
- They also tend to be **highly normalized**, which means the data is organized in a way that reduces redundancy and makes it easier to query.

Datamarts

- A data mart is a **subset** of a data warehouse that is tailored to the specific needs of a particular department or business unit.
- Designed to provide users with **easy access** to the data they need to make decisions about their specific domain.
- Data marts are typically **smaller** and more focused than data warehouses, and they may be **denormalized** to make them easier to use.

Key Difference

S/N	Feature	Data Warehouse	Data Mart
1.	Scope	Enterprise-wide	Departmental or business unit
2.	Focus	Subject-oriented	Specific business problem
3.	Data normalization	Highly normalized	Denormalized
4.	Size	Large	Small
5.	Users	All users within the organization	Specific department or business unit
6.	Purpose	Support enterprise-wide decision-making	Support departmental or business unit decision-making

Summary

Data warehouses are often used for strategic decision-making, whereas data marts are utilised for tactical decision-making. In addition, data warehouses are more expensive to implement and maintain than **data marts**.



Thank you

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