

TYPES OF DATABASES

Introduction

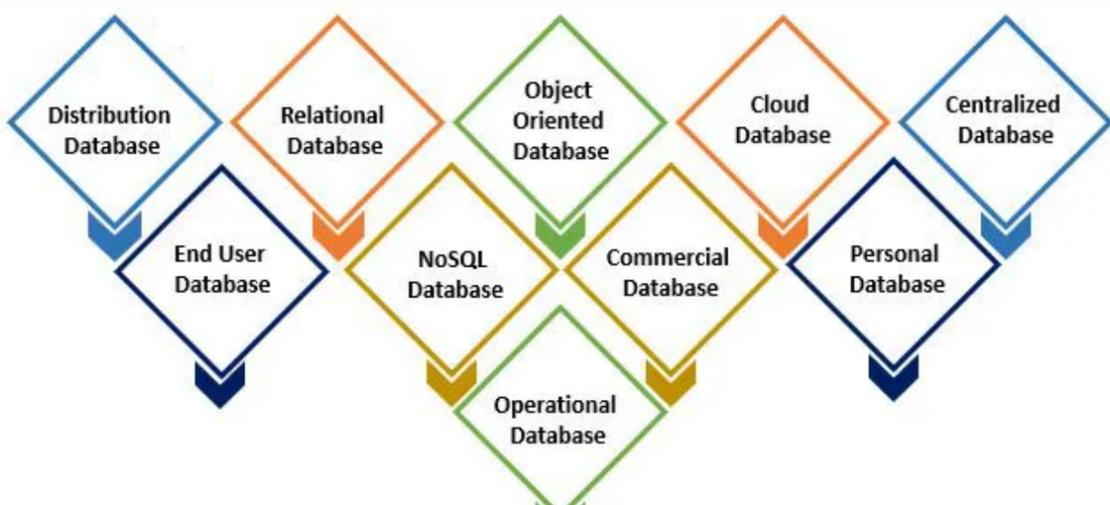
Databases are a need in current world. Most computer functions would cease to exist without them. A database is a collection of data that is kept on a computer. Databases are used for anything from storing files on your computer to shopping online and stock market analysis. Databases allow computers to store important data in an orderly, searchable format.

Advantage of databases

- Data redundancy is reduced.
- Errors in updating have been reduced, and consistency has improved.
- Data integrity and independence from application programs are improved.
- Users' data access has been improved thanks to the adoption of host and query languages.
- Data security has improved.
- Costs of data entry, storage, and retrieval are reduced.
- New application development was made easier as a result of the initiative.

Types of databases

- Centralized database
- Cloud database
- Commercial database
- Distributed database
- End-user database
- Graph database
- NoSQL database
- Object-oriented database
- Open-source database
- Operational database
- Personal database
- Relational database



IMPORTANCE OF DATABASE



A database management system is necessary because it efficiently handles data and allows users to complete many jobs. A database management system is a software application that stores, organizes, and manages a significant volume of data. This solution improves the effectiveness of commercial processes while lowering total expenditures.

Every second, the world of data is changing and evolving. This has resulted in an entirely new level of growth and problems for businesses all around the world. Companies can solve their issues on the one hand while also taking advantage of the tremendous potentials presented by this industry on the other by effectively recording data, storing, updating, and tracking it on a regular and efficient basis.

REFLECTION

A database is a collection of logically connected data that is arranged in a way that makes it easy to access, manage, and change. Databases are often accessible electronically through a computer system and managed by a database management system. Both internal and external databases are commonly used by businesses. Operational databases and data warehouses are common examples of internal databases. External databases are databases that are not held by an organization and can be accessed via the Internet.

Reference

- <https://www.javatpoint.com/types-of-databases>
- <https://www.tutorialspoint.com/Types-of-databases>
- <https://www.mcg.dk/post/what-is-the-importance-of-a-database-management-system>
- <https://corporatefinanceinstitute.com/resources/knowledge/data-analysis/database/>