

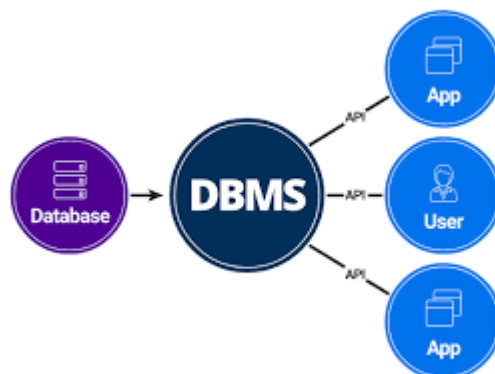
File System Drawbacks

- **Data Redundancy:** Data redundancy often requires higher storage costs and poor access time.
- **Data Inconsistency:** Data Inconsistency is caused by data Redundancy. It happens when similar data is stored in different formats in more than one file.
- **Data Isolation:** Data isolation occurs in writing new applications when retrieving data which can be stored in different format and files



📁 DataBase definition

- Structured set of information designed and produced to be easily accessed, managed and modified by several users.
- A DataBase Management System (DBMS) is used to store information in a database. Using a DBMS, we can find, sort, transform and select information stored in database.

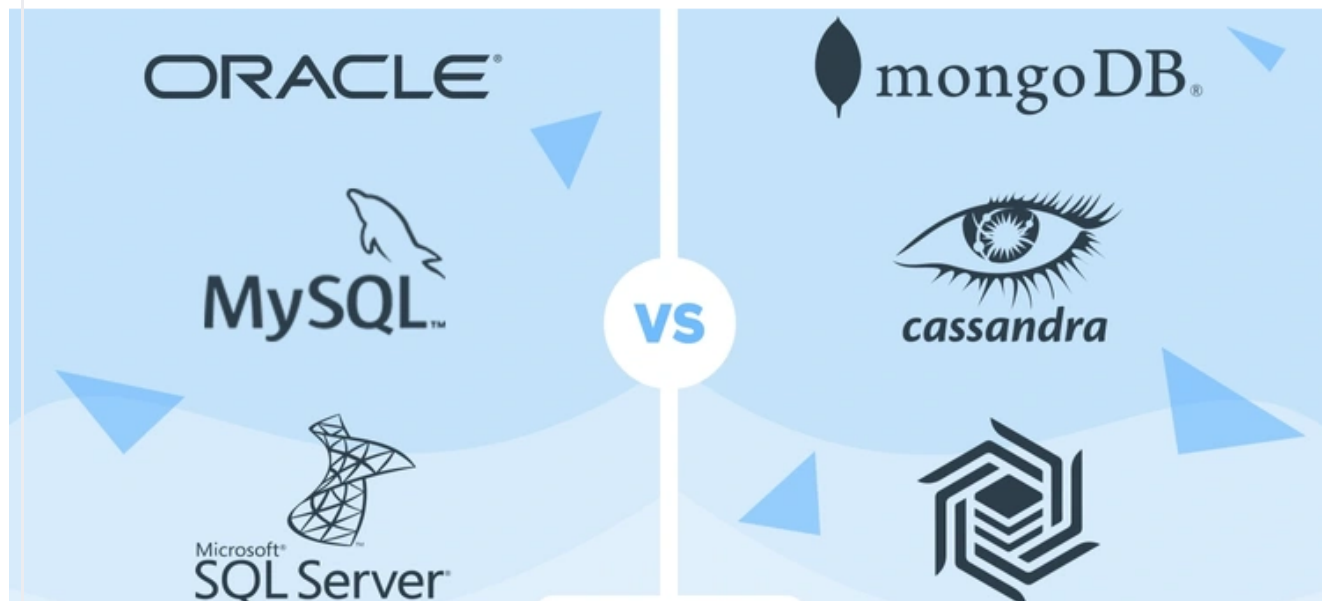


When choosing a modern database, one of the biggest decisions is picking a relational (SQL) or non-relational (NoSQL) data structure. While both are viable options, there are key differences between the two that users must keep in mind when making a decision.

Here, we break down the most important distinctions and discuss the best SQL and NoSQL database systems available.

The five critical differences between SQL vs NoSQL are:

1. SQL databases are relational, NoSQL databases are non-relational.
2. SQL databases use structured query language and have a predefined schema. NoSQL databases have dynamic schemas for unstructured data.
3. SQL databases are vertically scalable, while NoSQL databases are horizontally scalable.
4. SQL databases are table-based, while NoSQL databases are document, key-value, graph, or wide-column stores.
5. SQL databases are better for multi-row transactions, while NoSQL is better for unstructured data like documents or JSON.



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