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Types of Databases

Databases are an essential part of modern life. Without them, most computer functions would cease to exist. For this reason is important to understand the different types of databases that exist and how use them.

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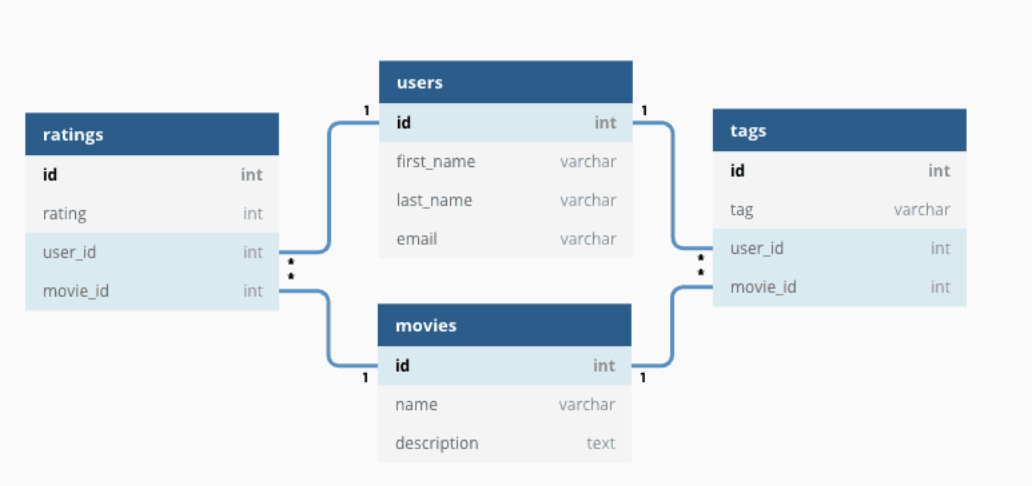
1. Relational Database:

The relational database is a collection of information organized in such a way that the data can be easily consulted, updated, analyzed and extracted. The information is found in tables and fields related to each other.



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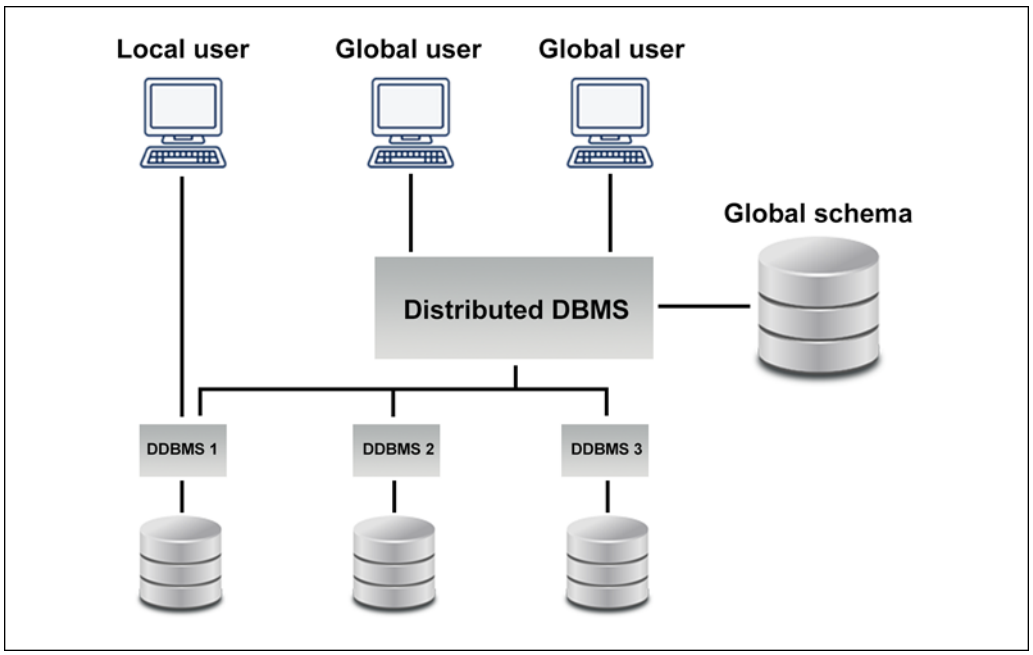
2. Distributed Database:

The distributed database consists of the storage of portions of the database in different physical locations and, therefore, the processing is distributed or replicated between the different points of a work network.



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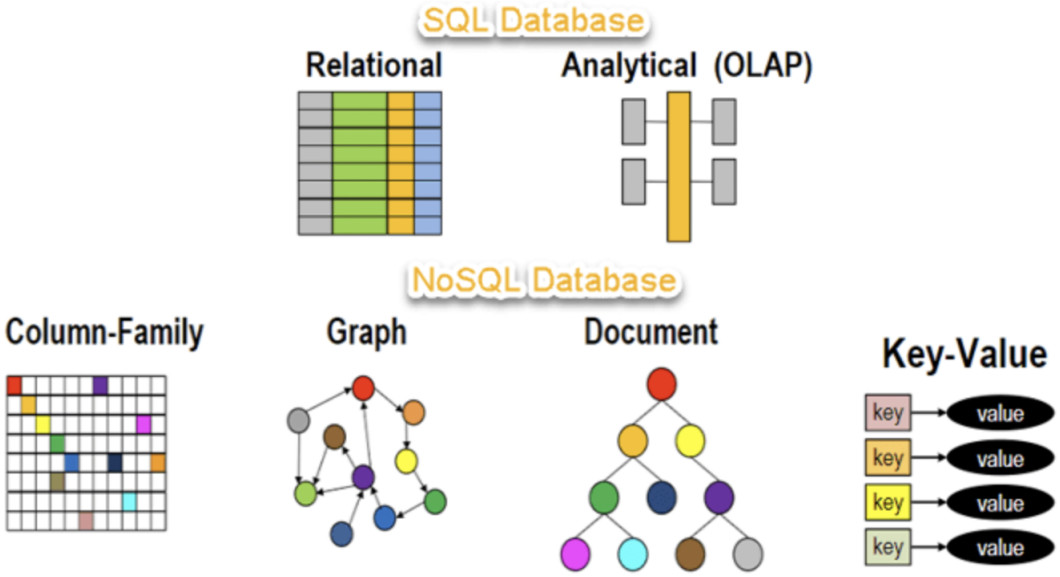
3. NoSQL Database:

The name of the NoSQL database stands for "Not only SQL". This is because this type of database usually avoids the use of SQL or uses it as a support, but not as a query. The fact that SQL is avoided is because it is used for projects that need to work on the database with a large volume. In databases with SQL language, the different attributes of an element are in different columns, while in a NoSQL all the attributes are in the same column, saving space.



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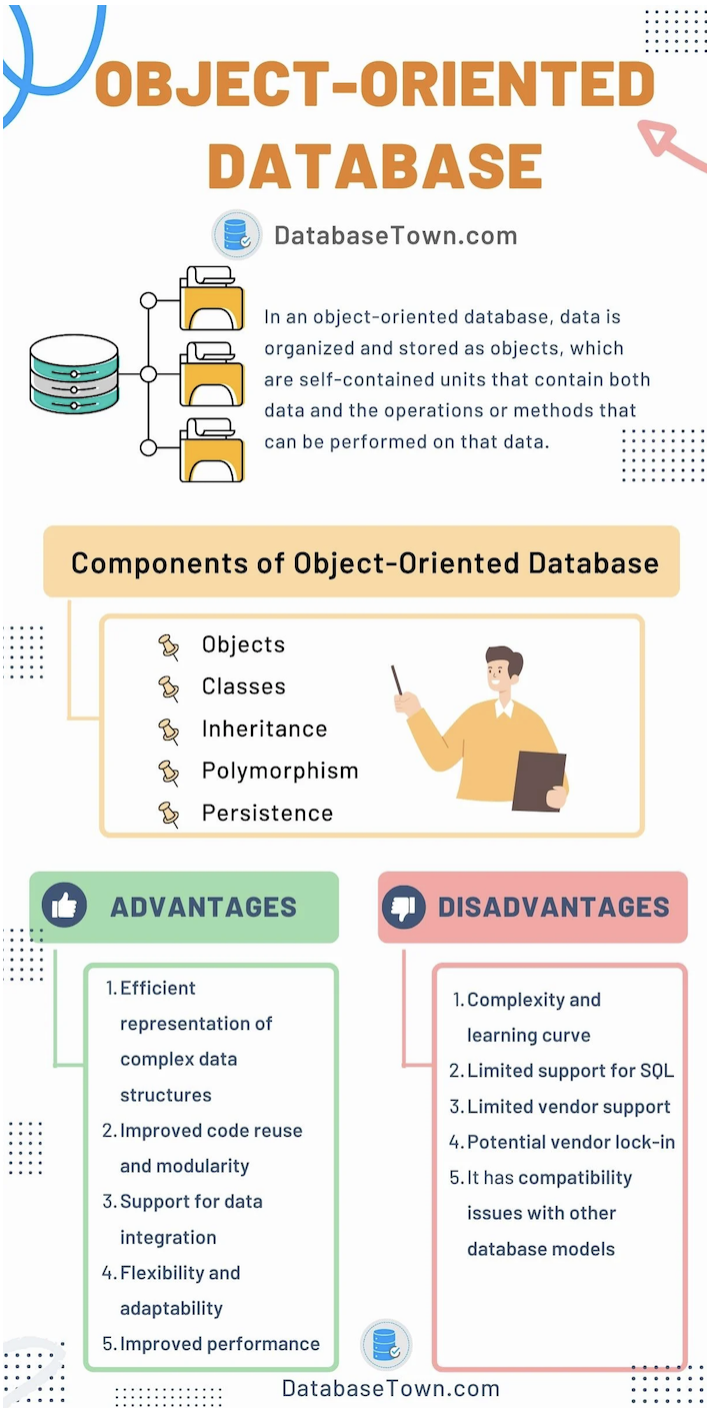
4. Object-Oriented Database:

The object-oriented database, or Object-Oriented Database, represents data in the form of objects and classes. The object can be anything from a search result to a table; and a class is a collection of objects.



5. Graph-Oriented Database:

Graph-oriented databases differ from others in that they are specialized in establishing relationships between data visually and navigating those relationships. To read the information, you have to read the nodes or connectors (connection points of the data in the tables), generating a natural language. Some examples of graph databases are Neo4j and Amazon Neptune.