What is NoSQL:

NoSQL can be defined as an approach to database designing, which holds a vast diversity of data such as key-value, multimedia, document, columnar, graph formats, external files, etc. NoSQL is purposefully developed for handling specific data models having flexible schemas to build modern applications.

NoSQL is famous for its high functionality, ease of development with a performance at scale. Because of such diverse data handling feature, NoSQL is called a non-relational database. It does not follow the rules of Relational Database Management Systems (RDBMS), and hence do not use traditional SQL statements to query your data. Some famous examples are MongoDB, Neo4J, HyperGraphDB, etc.

Difference between NoSQL and SQL:

* SQL databases are table-oriented databases, whereas NoSQL databases document-oriented have key-value pairs or wide-column stores or graph databases.
* SQL databases have a predefined or static schema that is rigid, whereas NoSQL databases have dynamic or flexible schema to handle unstructured data.
* SQL is used to store structured data, whereas NoSQL is used to store structured as well as unstructured data.
* SQL and NoSQL differ in whether they are relational (SQL) or non-relational (NoSQL), whether their schemas are predefined or dynamic, how they scale, the type of data they include and whether they are more fit for multi-row transactions or unstructured data.

What is mongodb:

MongoDB is **an open source NoSQL database management program**. NoSQL is used as an alternative to traditional relational databases. NoSQL databases are quite useful for working with large sets of distributed data. MongoDB is a tool that can manage document-oriented information, store or retrieve information.

Mongodb VS SQL:

**A SQL database processes SQL queries, whereas MongoDB offers JSON querying**. MongoDB is a more dynamic and complicated choice that is appropriate for hierarchical data because of its fundamental properties, as opposed to a SQL Database, which is still more predetermined and appropriate for other types of data storage.