**MongoDB**

* Developed by 10gen (now MongoDB Inc.) in 2007 as an open-source, document-oriented NoSQL database.
* Designed to overcome the limitations of traditional relational databases (SQL) in handling big data and modern web applications.
* MongoDB is a NoSQL database that stores data in a JSON-like format (BSON)
* It is document-oriented, meaning data is stored in collections instead of tables.
* Flexible, scalable, and optimized for modern applications.

**Why Use MongoDB?**

* Schema Flexibility: No fixed table structure.
* Scalability: Handles large volumes of data efficiently.
* Performance: Faster read/ write operations compared to relational databases.
* Integration: Works well with cloud-based and real-time applications.

**SQL vs NoSQL**

* SQL (Relational): Tables & Rows, Fixed Schema, Vertical Scaling,
* NoSQL (MongoDB):JSON Documents, Flexible Schema, Horizontal Scaling.
* Traditional Databases (SQL)-> Tables-> Rows -> Columns
* MongoDB (NoSQL)-> Collections-> Documents-> Key-Value Pairs