**Types of Non-Relational Databases Exercise**

**Learning Goal: understanding different types of non-relational databases.**

**Please conduct some research and complete the following table.**

|  |  |  |
| --- | --- | --- |
| **Type of non-relational Database** | **Description** | **Example** |
| Document-oriented | These databases store data as documents, usually in JSON or BSON format, and each document can contain various key-value pairs or nested structures. | [MongoDB](https://www.mongodb.com/) |
| Key-Value | Key-Value stores are the simplest NoSQL databases, storing data as a collection of key-value pairs. They are highly performant but may lack some advanced query capabilities. | [Redis](https://redis.io/) |
| Graph | These databases are designed for data whose relationships are as important as the data itself. They use graph structures with nodes, edges, and properties to represent and store data. | [Neo4j](https://neo4j.com/) |
| Column-based | Data is stored in columns rather than rows, and columns can be grouped together into column families. These databases are suitable for analysing and processing large amounts of data. | [Apache Cassandra](https://cassandra.apache.org/_/index.html) |

**References:**

[**https://aws.amazon.com/nosql/**](https://aws.amazon.com/nosql/)

[**https://hub.packtpub.com/different-types-of-nosql-databases-and-when-to-use-them/**](https://hub.packtpub.com/different-types-of-nosql-databases-and-when-to-use-them/)

[**https://www.geeksforgeeks.org/columnar-data-model-of-nosql/#**](https://www.geeksforgeeks.org/columnar-data-model-of-nosql/#)