Basic Comparison of Relational vs NoSQL Databases

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Assignment 1.3

Pets-R-Us is a reputable company that is known for its awesome pet A relational database is a database that provides access to data points that are related to each other and stores them. Relationships between data points are connections between different tables that are logical and based on interactions between the tables. (n.d.)

If I had a crochet business, I would have different tables. One would hold all my current yarns in stock with the primary key being a unique identifying number. This unique identifier could then be used in another table that held different patterns that used the unique identifier to let me know what yarn is going to be needed.

The advantages of relational databases are that they are easy to use. They are great for beginners to be able to create, modify, and delete databases. They are atomic, consistent, isolated, and durable to ensure that the data is valid in the case of errors occurring. They allow for multiple users to work collaboratively and can assign limited access to certain users.

The advantages of NoSQL databases are that they are extremely flexible. Data does not need to be stored in a structured manner. Querying these databases is faster because of the way that data is stored compared to relational databases. Data is often structured close to programming languages which makes it easy for developers to use. NoSQL is great for data that is going to change frequently or for diverse data types

As data grows in relational databases, it can complicate and slow down the queries. When the data becomes too complex, it can lead to information not being able to be shared from one database to another. (2022, August 25)

Unlike relational databases, NoSQL databases do not support atomic, consistent, isolated, and durable guidelines. While querying is faster, you cannot do as complex querying.

Identify at least two features of MySQL and two features of MongoDB and describe what they are and how they are used.

MySQL stores data in an efficient matter which deters redundant data.

References

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