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Discussion 3.1

Web 335

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1. **What are document databases?**

According to Ncache, a document database is “a modern way to store data in JSON format rather than simple rows and columns. It allows you to express data in its natural form the way it's meant to be.” It is interesting how document databases in NoSQL use the JSON format since it is more compact and readable and already used by developers.

1. **What are collections?**

Collections are similar to tables in relational databases like MySQL. “A collection may store documents those who are not same in structure. This is possible because MongoDB is a Schema-free database.” This is why it is possible to store documents of varying types and sizes in a collection

1. **What are the key differences between relational and non-relational database structures?**

According to Adam White from Izenda, “relational databases store data in rows and columns like a spreadsheet” while non-relational databases “use a storage model (one of four) that is best suited for the type of data it’s storing.” Relational databases are more traditional and look similar to a spreadsheet. A schema must be defined while non relational database are schema-less. While MySQL is known for not scaling well, it is my favorite type of relational database tool as it is easy to use. As stated before, non-relational databases don’t ncessarily need to have a schema with rows and columns. Rather, non relational databases can store data in four ways, document oriented, key-value stores, wide column stores and graph stores [White].

Reference List

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White Adam. “What’s the Difference? Relational vs Non-Relational Databases.” izenda.com, 6 October, 2020.

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