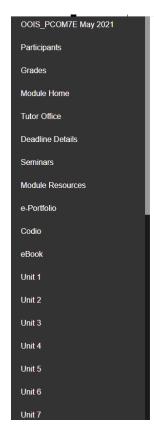
## Feedback on Hendrik's Post





## **Initial Post**

26 days ago



Last 11 days an

What is a SQL relational database?

A relational database is a collection of structured information that is divided into separate relatable data points (Oracle, N.D; Techtarget, N.D).

What is a NoSQL document store?

A document store is a collection of nonrelational unstructured information in the form of complex structures like JSON (Gupta et al, 2017; Amazon, N.D).

Some Key differences between a NoSQL document store and a SQL relational database are:

- A document store does not conform to a schema whereas a relational database requires the schema to exist before adding data (Couchbase, N.D).
- Document stores offer good performance by scaling horizontally whereas a typical SQL relational database scales vertically (Couchbase, N.D).
- Relations are handled by a process of normalization in relational databases, whereas additional
  documents have to be created and connected by a reference in a document store (Couchbase,
  N.D.).
- Relational databases use a structured query language whereas a document store does not conform to any standard query language (Nayak et al, 2013).
- A relational database guarantees ACID (Atomicity, Consistency, Isolation and Durability) compliance where it is not guaranteed in a document store, but instead it guarantees the BASE (Basically Available, Soft State and Eventual consistency) consistency model (Nayak et al, 2013).

Each technology comes with its trade-offs and thus deciding on which suits the project best comes to careful analysis of the project requirements.

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## Post by <u>Kikelomo Obayemi</u> Peer Response

14 days ago

Hello Hendrik,

Nice Post. I particularly like you last paragraph where you stated that:

"Each technology comes with its trade-offs and thus deciding on which suits the project best comes to careful analysis of the project requirements."

Both technologies have their benefits and drawbacks and the choice is largely dependent on use.

<u>Reply</u>

Maximum rating: -



Post by <u>Beran Necat</u> Re: Initial Post

11 days ago

Hi all

Here is a really interesting video discussing the troubles of ensuring consistency of data across multiple locations.

https://www.youtube.com/watch?v=RY\_2gElt3SA

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