Wide-Column Database

In this lesson, we will get to know the wide-column database and when to choose it for our projects.

We'll cover the following

What is a wide-column database?#

Wide-column databases belong to the *NoSQL* family of databases, primarily used to handle massive amounts of data, technically called the *Big Data*.

Wide-column databases are perfect for analytical use cases. They have a high performance and a scalable architecture.

Also known as *column-oriented* databases *wide-column* databases store data in a record with a dynamic number of columns. A record can hold billions of columns.

Popular wide-column databases#

Some of the popular wide column databases are *Cassandra*, *HBase*, *Google BigTable*, *ScyllaDB*, etc.

When To Pick a wide-column database?#

If you have a use case where you need to grapple with Big Data, to ingest it, or to run analytics on it, then a *wide-column* database is a good fit for this scenario.

Wide-column databases are built to manage Big Data ensuring *scalability*, *performance* and *high availability* at the same time.

Real-life implementations#

Some of the real-life implementations of the tech are:

- Netflix uses Cassandra as the backend database for the streaming service. (https://medium.com/netflix-techblog/tagged/cassandra)
- Adobe uses HBase for processing large amounts of data. (https://hbase.apache.org/poweredbyhbase.html)

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