Wide-Column Database

In this lesson, we will get to know the Wide-Column database & when to choose it for our projects.

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, Scylla DB* 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*,

Wide-column databases are built to manage big data ensuring scalability, performance & 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

- Adobe uses HBase for processing large amounts of data