



Web Application & Software Architecture 101

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Database

Introduction & Types of Data
Relational Database

When Should You Pick A

Relational Database?

NoSQL Databases - Introduction

Features Of NoSQL Databases

When To Pick A NoSQL Database?

Is NoSQL More Performant than SOL?

Database Quiz - Part 1

Polyglot Persistence

Multi-Model Databases

Eventual Consistency

Strong Consistency

CAP Theorem

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Types of Databases

Document Oriented Database

Graph Database

Key Value Database

Time Series Database

Wide-Column Database

Database Quiz - Part 3

Caching







Tracks

How Do I figure If I Need A Cache In My Application? Reducing the Application Deployment Costs Via Caching Caching Strategies SQL: ~~ O...-Database Quiz - Part 1 Polyglot Persistence Multi-Model Databases **Eventual Consistency** Strong Consistency CAP Theorem Database Quiz - Part 2 Types of Databases **Document Oriented Database** Graph Database Key Value Database Time Series Database

> Wide-Column Database Database Quiz - Part 3

When Should You Pick A Relational Database?

In this lesson, we will discuss when to choose a relational database for our project.



If you are writing a stock trading, banking or a Finance-based app or you need to store a lot of relationships, for instance, when writing a social network like *Facebook*. Then you should pick a relational database. Here is why –

Transactions & Data Consistency

If you are writing a software which has anything to do with money or numbers, that makes *transactions*, *ACID*, *data consistency* super important to you.

Relational DBs shine when it comes to transactions & data consistency. They comply with the ACID rule, have been around for ages & are battle-tested.

Large Community

Also, they have a larger community. Seasoned engineers on the tech are easily available, you don't have to go too far looking for them.

Storing Relationships

If your data has a lot of relationships like which friends of yours live in a particular city? Which of your friend already ate at the restaurant you plan to visit today? etc. There is nothing better than a relational database for storing this kind of data.

Relational databases are built to store relationships. They have been tried & tested & are used by big guns in the industry like Facebook as the main user-facing database.

Popular Relational Databases

Some of the popular relational databases used in the industry are *MySQL* - it's an open-source relationship database written in *C*, *C*++ been around since 1995.

Others are *Microsoft SQL Server*, a proprietary RDBMS written by Microsoft in C, C++. *PostgreSQL* an relationships, for instance, when writing a social network like *Facebook*. Then you should pick a relational database. Here is why –

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