

SHORT 1 · WHAT IS A DATABASE?

Where do apps keep all their data?

In a database

A Database Is…



An organized collection of data, stored so it can be found, updated, and protected quickly.

Databases Are Everywhere



Banks



Hospitals



Schools



Online shops



Social media



Airlines



REMEMBER

Organized data = useful data

NEXT SHORT

How a database is organized



SHORT 2 · TABLES & SQL

Rows, columns, and tables

How data is organized

A Table Is Like a Spreadsheet



Each row is one record — for example, one student. Each column is one detail — name, age, or grade.

SQL in 4 Words



SELECT

Read data



INSERT

Add new data



UPDATE

Change data



DELETE

Remove data



REMEMBER

SQL is the language of databases

NEXT SHORT

Types of databases



SHORT 3 · TYPES & CAREERS

SQL or NoSQL?

Main types of databases

Types of Databases



Relational (SQL)

Tables — MySQL, PostgreSQL, Oracle



NoSQL

Flexible data — MongoDB, Redis



Cloud databases

Hosted online — Amazon RDS, Azure SQL

Why Learn Databases?



Every app needs data

Web, mobile, and business apps



Good jobs

Database admin, data analyst



Free to start

MySQL and PostgreSQL are free





REMEMBER

Start with SQL and MySQL

NEXT TOPIC

Topic 7: What are applications?

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