COMPUTER BASICS · TOPIC 6

What Is a Database?

Types and uses



LONG VIDEO

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COMPUTER BASICS · TOPIC 6

What Is a Database? Types and Uses

IN THIS VIDEO

1. WHAT IS A DATABASE?
2. TABLES & SQL
3. TYPES & CAREERS



PART 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 PART

How a database is organized

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PART 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



STEP 1

SELECT

Read data

STEP 2

INSERT

Add new data

STEP 3

UPDATE

Change data

STEP 4

DELETE

Remove data



REMEMBER

SQL is the language of databases

NEXT PART

Types of databases

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PART 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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