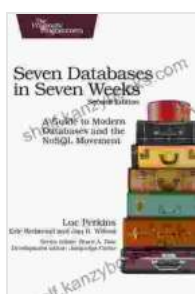# 7 Databases in 7 Weeks: Learn the Fundamentals Fast

Databases are essential for storing and managing data. They are used in a wide variety of applications, from simple CRUD operations to complex data analysis tasks. In this book, we will learn the fundamentals of seven popular databases in just seven weeks.

Seven Databases in Seven Weeks: A Guide to Modern Databases and the NoSQL Movement by M.Eng. Johannes Wild

★★★★☆ 4.4 out of 5

Language	: English
File size	: 4802 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 475 pages
Screen Reader	: Supported

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We will start with the basics of SQL, the most widely used database language. We will then cover NoSQL databases, which are becoming increasingly popular for storing and managing large amounts of data. By the end of this book, you will have a solid understanding of the most important database concepts and be able to use them to solve real-world problems.

Week 1: SQL

In the first week, we will learn the basics of SQL. We will cover the following topics:

- Data types

- Tables

- Queries

- Joins

- Subqueries

By the end of this week, you will be able to create and query databases using SQL.

Week 2: MySQL

In the second week, we will learn about MySQL, one of the most popular SQL databases. We will cover the following topics:

- MySQL syntax

- MySQL data types

- MySQL tables

- MySQL queries

- MySQL joins

By the end of this week, you will be able to use MySQL to store and manage data.

Week 3: PostgreSQL

In the third week, we will learn about PostgreSQL, another popular SQL database. We will cover the following topics:

- PostgreSQL syntax

- PostgreSQL data types

- PostgreSQL tables

- PostgreSQL queries

- PostgreSQL joins

By the end of this week, you will be able to use PostgreSQL to store and manage data.

Week 4: MongoDB

In the fourth week, we will learn about MongoDB, a popular NoSQL database. We will cover the following topics:

- MongoDB syntax

- MongoDB data types

- MongoDB collections

- MongoDB queries

- MongoDB aggregation

By the end of this week, you will be able to use MongoDB to store and manage data.

Week 5: Redis

In the fifth week, we will learn about Redis, a popular in-memory database. We will cover the following topics:

- Redis syntax

- Redis data types

- Redis commands

- Redis performance

By the end of this week, you will be able to use Redis to store and manage data.

Week 6: Cassandra

In the sixth week, we will learn about Cassandra, a popular distributed database. We will cover the following topics:

- Cassandra syntax

- Cassandra data types

- Cassandra tables

- Cassandra queries

- Cassandra performance

By the end of this week, you will be able to use Cassandra to store and manage data.

Week 7: Elasticsearch

In the seventh and final week, we will learn about Elasticsearch, a popular search engine. We will cover the following topics:
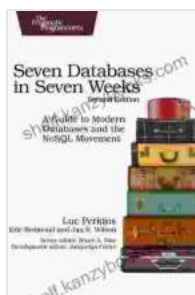
- Elasticsearch syntax

- Elasticsearch data types

- Elasticsearch indexes

- Elasticsearch queries

- Elasticsearch performance

By the end of this week, you will be able to use Elasticsearch to store and manage data.

In this book, we have learned the fundamentals of seven popular databases. We have covered a wide range of topics, from basic SQL concepts to advanced NoSQL techniques. By the end of this book, you should have a solid understanding of the most important database concepts and be able to use them to solve real-world problems.

I hope you have enjoyed this book! If you have any questions, please feel free to contact me.

Happy coding!

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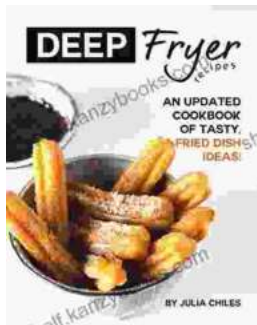
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