Unit: Intro to SQL: Querying and managing data

Lessons

SQL basics

More advanced SQL queries

Relational queries in SQL

Projects completed

| Project: App impersonator | T days ago | T



Project: Famous people 7 days ago

Project: Design a store database 9 days ago d2038

SQL basics

We'll show you the basics of creating tables and selecting data in various different ways.

Learn

- Welcome to SQL
- Creating a table and inserting data
- ★ Challenge: Book list database
- Querying the table
- ▶ Aggregating data

Challenge: Box office hits database

- 7 1,081 084111.6 4444
- Challenge: TODO list database stats
- S-Q-L or SEQUEL?

Project: Design a store database

More advanced SQL queries

Learn how to perform more advanced SQL queries using AND/OR, IN, LIKE, HAVING, and more.

Learn

- More complex queries with AND/OR
- ★ Challenge: Karaoke song selector
- ▶ Querying IN subqueries
- ▶ Restricting grouped results with HAVING

Challenge: Playlist maker

- Challenge: The wordiest author
- Who issues SQL queries?
- ▶ Calculating results with CASE
- Challenge: Gradebook
- Project: Data dig

Relational queries in SQL

joins, and self joins).

Learn how to store related data in multiple tables and use joins to bring them together (inner joins, outer

Learn

- Splitting data into related tables
- JOINing related tables
- Challenge: Bobby's HobbiesJoining related tables with left outer joins
- Challenge: Customer's orders
- ▶ Joining tables to themselves with self-joins★ Challenge: Sequels in SQL
- ▶ Combining multiple joins
- ★ Challenge: FriendBook

Project: Famous people

More efficient SQL with query planning and optimization

Modifying databases with SQL Learn how to update data, delete data, and change table schemas with SQL commands UPDATE, DELETE,

ALTER, and DROP.

Learn

Using SQL to update a database

- ▶ Changing rows with UPDATE and DELETE
- Challenge: Dynamic Documents
- ▶ Altering tables after creation
- Challenge: Clothing alterations

 Make your SQL safer
- Project: App impersonator

Further learning in SQL Get ideas for how you can continue learning more about SQL and databases.

Learn

What to learn next

About this unit

Learn how to use SQL to store, query, and manipulate data. SQL is a special-purpose programming language designed for managing data in a relational database, and is used by a huge number of apps and organizations.

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