

9/5/2016 **◆** INTRO TO SQL: QUERYING AND MANAGING DATA SQL basics Welcome to SQL Creating a table and inserting Challenge: Book list database Querying the table Challenge: Box office hits database Aggregating data Challenge: TODO list database stats S-Q-L or SEQUEL? Project: Design a store database

Querying data

Select everything SELECT * FROM customers; Filter with condition SELECT * FROM customers WHERE age > 21; Filter with multiple conditions SELECT * FROM customers WHERE age < 21 AND state = "NY"; Filter with IN SELECT * FROM customers WHERE plan IN ("free", "basic"); Select specific columns SELECT name, age FROM customers; Order results SELECT * FROM customers WHERE age > 21 ORDER BY age DESC; Transform with CASE SELECT name, CASE WHEN age > 18 THEN "adult" ELSE "minor" END "type" FROM customers;

Also see: filtering with LIKE, restricting with LIMIT, using ROUND and other core functions. For more details, see the SQLite reference for SELECT.

Aggregating data

Aggregate functions SELECT MAX(age) FROM customers; Grouping data SELECT gender, COUNT(*) FROM students GROUP BY gender; Also see: restricting results with HAVING.

Joining related tables

Inner join SELECT customers.name, orders.item FROM customers JOIN orders ON customers.id = orders.customer_id; Outer join SELECT customers.name, orders.item FROM customers LEFT OUTER JOIN orders ON customers.id = orders.customer_id;

Updating and deleting data

Updating data UPDATE customers SET age = 33 WHERE id = 73; **Deleting data** DELETE FROM customers WHERE id = 73;

Also see: ALTER TABLE.

Our implementation of SQL is based off of SQLite which is compiled down to asm.is by Emscripten packaged into salis.

Continue to "Challenge: Book list database"

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