Introduction to Databases with SQL

Querying
No. 58. Nazi-Marutash, year 13th

Contents: The payment of grain and dates as temple stipends for twelve months.
The Overstory
Goodnight Moon
Le Petit Prince
Prince of Tides
Frankenstein
The Great Gatsby
Pat Conroy
F. Scott Fitzgerald
Toni Morrison
Richard Powers
Mary Shelley
Antoine de Saint-Exupéry
Margaret Wise Brown
Song of Solomon

<table>
<thead>
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Apple Numbers
Google Sheets
Microsoft Excel
...

Scale
Scale
Frequency
Scale
Frequency
Speed
Database

A collection of data organized for creating, reading, updating, and deleting.
Database Management System

Software via which you can interact with a database.
MySQL
Oracle
PostgreSQL
SQLite
...
SQL

A language via which you can create, read, update, and delete data in a database.
Structured Query Language

A language via which you can create, read, update, and delete data in a database.
SQL
A language via which you can create, read, update, and delete data in a database.
Querying
What’s the most-liked post on our platform?
Is our number of daily users growing or shrinking?
Which songs are most like the song a user just played?
Visual Studio Code
SQLite
...
Phones
Websites
sqlite3 FILENAME
What data is in our database?
SELECT
WHERE
Style
SELECT "title" FROM "longlist"
WHERE "author" = 'Fernanda Melchor';
SELECT "title" FROM "longlist"
WHERE "author" = 'Fernanda Melchor';
SELECT "title" FROM "longlist"
WHERE "author" = 'Fernanda Melchor';
IS NULL

IS NOT NULL
AND
OR
()
BETWEEN ... AND ...
ORDER BY
ORDER BY ... ASC
ORDER BY ... DESC
DISTINCT
SELECT column FROM table;
SELECT COUNT(column) FROM table;
SELECT AVG(column) FROM table;
SELECT column FROM table
WHERE condition;
SELECT column FROM table
WHERE column = value;
SELECT column FROM table
WHERE column LIKE pattern;
SELECT column FROM table
WHERE condition0 AND condition1;
SELECT column FROM table
WHERE condition0 OR condition1;
SELECT column FROM table
WHERE condition
ORDER BY column;
SELECT column FROM table
WHERE condition
ORDER BY column
LIMIT number;
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