The best way to learn SQL

Welcome! You are in the best place to learn SQL fast, easy and free. Use the menu and follow the tutorial to learn SQL on your own.

Previous Next

✓ SELECT *

✓ SELECT specific columns

✓ WHERE ... Equals

✓ WHERE ... Greater than

✓ WHERE ... Greater than or equal

✓ AND

✓ OR

✓ IN

✓ DISTINCT

✔ ORDER BY

✓ LIMIT # of returned rows

✓ COUNT(*)

✔ COUNT(*) ... WHERE

✓ SUM

✓ AVG

✓ MAX and MIN

✓ GROUP BY

✓ Nested queries

NULL

Date

Inner joins

Multiple joins

Joins with WHERE

Left joins Table alias

Column alias

Self ioins

LIKE

CASE

COALESCE

Lesson 18: Nested queries

In SQL, you can put a SQL query inside another SQL query.

For example, to find the family members with the least number of legs, you can run:

SELECT * FROM family_members WHERE num_legs = (SELECT MIN(num_legs) FROM family_members);

The SELECT query inside the parentheses is executed first, and returns the minimum number of legs. Then, that value (2) is used in the outside query, to find all family members that have 2 legs.

Can you return the family members that have the highest num_books_read?



SQL:

SELECT * FROM family_members WHERE num_books_read = (SELECT MAX(num_books_read) FROM family_members):

id	name	species	num_books_read	num_legs
1	Dave	human	200	2

Current tables:

family_members

id	name	species	num_books_read	num_legs
1	Dave	human	200	2
2	Mary	human	180	2
3	Pickles	dog	0	4

Expected Result:

Result

Run SQL

id	name	species	num_books_read	num_legs
1	Dave	human	200	2

Learn SQL on your own

This tutorial provides you with easy to understand SQL instructions and allows you to practice while you are learning, using an online SQL interpreter. To learn by practicing your SQL commands, seeing immediate results. You will be able to perform selects, inserts, updates, deletes, and drops on your tables. Note: This tutorial uses the SQLite database engine. The different variants of SQL use slightly different syntax.

If you're already familiar with the basics of SQL, you can still use this as a refresher, and practice some SQL statements.

How long does it take to learn SQL? How hard is it to learn SQL? Is easy to learn?

Its not very hard and you can learn it very quickly. Follow this interactive online SQL training for beginners (and for FREE) and in no time you will learn all the necessary knowledge to start working and to be confident to say you know SQL in a job interview.

Are SQL queries/syntax case sensitive?

The SQL Keywords are case-insensitive (SELECT, FROM, WHERE, etc.), but are often written in all caps. However in some setups table and column names are case-sensitive.



SQL stands for Structured Query Language. SQL is used to communicate with a database and SQL is the standard language for relational database management systems. SQL statements are used to perform tasks such as update data on a database, or retrieve data from a database. lational database management systems that use SQL are: Oracle, Sybase, Microsoft SQL Server, Access, Ingres, et

Easy to learn standard SQL commands such as "Select", "Insert", "Update", "Delete", "Create", and "Drop" can be used to accomplish almost everything that you need to do with a database. This tutorial will provide you with the instruction on the basics of each of these commands as well as allow you to put them to practice using the SQL Interpreter.

What Can SQL do?

- SQL can execute queries against a database
- · SQL can retrieve data from a database
- · SQL can insert records in a database
- SQL can update records in a database
 SQL can delete records from a database
 SQL can create new databases

- · SQL can create new tables in a database
- SQL can create stored procedures in a database
 SQL can create stored procedures in a database
 SQL can create views in a database
 SQL can set permissions on tables, procedures, and views

The Most Important SQL Commands

- SELECT extracts data from a database
 UPDATE updates data in a database
 DELETE deletes data from a database
- . INSERT INTO inserts new data into a database
- CREATE DATABASE creates a new database
 ALTER DATABASE modifies a database
- . CREATE TABLE creates a new table · ALTER TABLE - modifies a table
- DROP TABLE deletes a table
 CREATE INDEX creates an index (search key)
- . DROP INDEX deletes an index

Why should you learn SQL?

SQL is an incredibly important and valuable skill employers desire. You can earn really good money, SQL programmers are in high demand. As organizations seek to do more with their data, they will need more individuals with the skills to access and analyze that data. SQL is the skill that enables you to

Learning SQL will allow you to mine data with greater efficiency, as SQL queries can be easily saved and re-used at any point in time. You can do data manipulation, combine data from multiple sources and manage large pools of data. And you will not have to deal with Excel crashing anymore.

List of databases used by Internet's biggest websites

- The king of scalability. Google, uses BigTable.
- Facebook uses Hive (Data warehouse for Hadoop, supports tables and a variant of SQL called hiveQL) and Cassandra (Multi-dimensional, distributed key-value store) for Facebook's private messaging
- Yahoo uses modified PostgreSQL.

 YouTube uses MySQL but they are moving to Google's BigTable.
- Myspace uses SQL Server.
- Twitter and Wikipedia uses MvSQL
- · Flickr uses MySQL.

Facebook, Google, LinkedIn, and Twitter all use MySQL for at least some of their data management. As they all contribute some of their MySQL customizations to a project called WebScaleSQL.

Will SQL become obsolete?

My guess is not for a very, very long time, if ever. Business and specially small business will continue to organize data in a relational manner regardless of the underlying data storage and processing technology,

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