

SQL

SQL, or Structured Query Language, is a language to talk to databases. It allows you to select specific data and to build complex reports. Today, SQL is a universal language of data. It is used in practically all technologies that process data.

SAMPLE DATA

countries				
id	name	population	continent	capital
1	France	65000000	Europe	Paris
2	Germany	82000000	Europe	Berlin

cities				
id	name	country_id	population	rating
1	Paris	1	2000000	5
2	Berlin	2	3500000	4

QUERYING SINGLE TABLE

Fetch all columns from the country table

```
SELECT *
FROM country;
```

Fetch id and name columns from the city table

```
SELECT id, name
FROM city;
```

Fetch city names sorted by the rating column in the default ASC ending order

```
SELECT name
FROM city
ORDER BY rating DESC;
```

Fetch city names sorted by the rating column in the DESC ending order

```
SELECT name
FROM city
ORDER BY rating DESC;
```

ALIASES
COLUMNS

```
SELECT name AS city_name
FROM city;
```

TABLES

```
SELECT co.name, ci.name
FROM city ci
JOIN country co
ON ci.country_id = co.id;
```

FILTERING THE OUTPUT

COMPARISON OPERATORS

Fetch names of cities that have a rating above 3

```
SELECT name
FROM city
WHERE rating > 3;
```

Fetch names of cities that are neither Berlin nor Madrid

```
SELECT name
FROM city
WHERE name != 'Berlin'
AND name != 'Madrid';
```

TEXT OPERATORS

Fetch names of cities that start with a P or end with an Y

```
SELECT name
FROM city
WHERE name LIKE 'P%'
OR name LIKE '%Y';
```

Fetch names of cities that start with any letter followed by 'bde' (like Dublin in Ireland or Lublin in Poland)

```
SELECT name
FROM city
WHERE name LIKE '%_bde%';
```

OTHER OPERATORS

Fetch names of cities that have a population between 500K and 1M

```
SELECT name
FROM city
WHERE population BETWEEN 500000 AND 1000000;
```

Fetch names of cities that don't miss a rating value

```
SELECT name
FROM city
WHERE rating IS NOT NULL;
```

Fetch names of cities that are in countries with IDs 1, 4, 5, or 8

```
SELECT name
FROM city
WHERE country_id IN (1, 4, 5, 8);
```

QUERYING MULTIPLE TABLES

INNER JOIN

JOIN or explicitly INNER JOIN returns rows that have matching values in both tables.

```
SELECT city.name, country.name
FROM city
JOIN country
ON city.country_id = country.id;
```

city		country	
id	name	id	name
1	Paris	1	France
2	Berlin	2	Germany
3	Vienna	4	Austria

LEFT JOIN

LEFT JOIN returns all rows from the left table with corresponding rows from the right table. If there's no matching row, NULL is introduced as values from the second table.

```
SELECT city.name, country.name
FROM city
LEFT JOIN country
ON city.country_id = country.id;
```

city		country	
id	name	id	name
1	Paris	1	France
2	Berlin	2	Germany
3	Vienna	4	NULL

RIGHT JOIN

RIGHT JOIN returns all rows from the right table with corresponding rows from the left table. If there's no matching row, NULL is introduced as values from the left table.

```
SELECT city.name, country.name
FROM city
RIGHT JOIN country
ON city.country_id = country.id;
```

city		country	
id	name	id	name
1	Paris	1	France
2	Berlin	2	Germany
NULL	NULL	3	Switzerland

FULL JOIN

FULL JOIN or explicitly FULL OUTER JOIN returns all rows from both tables - if there's no matching row in the second table, NULL is returned.

```
SELECT city.name, country.name
FROM city
FULL (OUTER) JOIN country
ON city.country_id = country.id;
```

city		country	
id	name	id	name
1	Paris	1	France
2	Berlin	2	Germany
3	Vienna	4	NULL
NULL	NULL	3	Switzerland

CROSS JOIN

CROSS JOIN returns all possible combinations of rows from both tables. There are two syntaxes available.

```
SELECT city.name, country.name
FROM city
CROSS JOIN country;
```

```
SELECT city.name, country.name
FROM city, country;
```

city		country	
id	name	id	name
1	Paris	1	France
1	Paris	2	Germany
2	Berlin	1	France
2	Berlin	2	Germany

NATURAL JOIN

NATURAL JOIN will join tables by all columns with the same name.

```
SELECT city.name, country.name
FROM city
NATURAL JOIN country;
```

city		country	
country_id	id	name	id
1	1	Paris	1
2	2	Berlin	2
3	3	Vienna	3
4	4	Vienna	4

NATURAL JOIN used these columns to match rows: city_id, city.name, country_id, country.name. NATURAL JOIN is very rarely used in practice.

Sql Study Guide

Terry C. Jones



Sql Study Guide:

SQL for Beginners Zach Codings, 2020-10-12 Do you need to learn how to use SQL to effectively manage a database Do you want to learn SQL programming without complicated explanations If the answer to these questions is yes keep reading SQL for Beginners A Step by Step Guide to Learn SQL Programming and Database Management Systems is an easy to digest and fast paced guide to learning Structured Query Language SQL which is the industry standard programming language for defining and analyzing data in databases The book will focus on how to use SQL in order to process your data and find out what it means First you will learn the basics of databases and the SQL programming language then build your foundational skills by working with simple databases and tables In each chapter you will find real examples which you can apply in the real world This book will guide you step by step as if you have never programmed before in your life Furthermore you will have all the tools you need to build versatile databases and manipulate data efficiently You will explore How to build databases and tables Proven strategies to define all the SQL data types that fit the data you are working with How to sort through the data efficiently to find what you need How to use mathematical operations and functions The exact steps to clean your data and make it easier to analyze How to modify and delete tables and databases Tried and tested strategies to maintain a secure database How to grant or revoke user privileges And much more Learning SQL and working with data doesn't have to be a complicated experience Even if you've never used SQL you can learn it quickly SQL for Beginners will guide you with clear simple real world examples in order to teach you how to use the proper tools you need to create and manage a database This book uses standard SQL syntax and several database management systems however the core concept you learn can be easily applied to any database application Scroll up and click the BUY NOW button [OCA / OCP: Introduction to Oracle9i SQL Study Guide](#) Chip Dawes, Biju Thomas, 2006-02-20 Here's the book you need to prepare for Exam 1Z0 007 Introduction to Oracle9i In depth coverage of official exam objectives Practical information on using SQL in a real world Oracle9i environment Hundreds of challenging review questions in the book and on the CD Authoritative coverage of all exam objectives including Writing basic SQL SELECT statements Restricting and sorting data Displaying data from multiple tables Aggregating data using group functions Producing readable output with iSQL Plus Creating and managing tables Controlling user access [Learning SQL](#) Sikha Bagui, Richard Earp, 2003 This book is a brief hands on tutorial covering the basics of using SQL as well as using the Access database engine and SQL An introduction to beginning SQL tasks is accomplished in this book A series of exercises at the end of each chapter takes these newly learned SQL skills and puts them to work While learning about SQL readers will also gain insight on how the basics are used by professional Access programmers **MCSA / MCSE / MCDBA: SQL Server 2000 Administration Study Guide** Rick Sawtell, Joseph L. Jorden, Lance Mortensen, 2006-02-20 Here's the book you need to prepare for Exam 70 228 Installing Configuring and Administering Microsoft SQL Server 2000 This Study Guide provides In depth coverage of every official exam objective

Practical information on installing configuring and administering SQL Server 2000 Real world insights advice and recommendations Hundreds of challenging practice questions in the book and on the CD Leading edge exam preparation software including a test engine and electronic flashcards Authoritative coverage of all exam objectives including Installing and configuring SQL Server 2000 Creating SQL Server 2000 databases Managing monitoring and troubleshooting SQL Server 2000 databases Extracting and transforming data with SQL Server 2000 Managing and monitoring SQL Server 2000 security Managing monitoring and troubleshooting SQL Server 2000 Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Discovering SQL Alex Kriegel,2011-03-31 Teaching the SQL skills that businesses demand when hiring programmers If you re a SQL beginner you don t just want to learn SQL basics you also want to get some practical SQL skills you can use in the job market This book gives you both Covering the basics through intermediate topics with clear explanations hands on exercises and helpful solutions this book is the perfect introduction to SQL Topics include both the current SQL 2008 standards the upcoming SQL 2011 standards and also how to use SQL against current releases of the most popular commercial SQL databases such as Oracle SQL Server and MySQL Introduces SQL concepts explains SQL statements and clearly shows how to write efficient and effective SQL code Uses a hands on style and a sample database that incorporates all SQL concepts taught in the book this database will be enhanced through the book as key points and lessons are covered Covers topics such as how SQL interacts with the sample database via various interfaces including vendor provided utilities programming languages SQL clients and productivity software Includes appendices with primers on database normalization set theory and boolean algebra RDBMS software step by step setup guides and database connectivity Learn how to write effective efficient SQL code with *Discovering SQL A Hands On Guide for Beginners* *Sql Guide (Speedy Study Guides)* Speedy Publishing,2014-06-18 SQL stands for Structured Query Language and it is a programming language that is entirely designed for the management of data in a database system Knowing SQL is an essential skill for today s programmer and if you are looking for a career in information tech you will quickly realize that SQL can push you far ahead of the rest of the people competing for the position SQL is a very rich very developed language and a chart is great for keeping in mind the structures and the specific syntax that is used

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exercises included in this book so you will be able to create not only correct but efficient SQL queries to succeed at work and
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the years its development continued leading to the introduction of more advanced SQL commands By 1990 there existed new versions with standard Database Language SQL with the recent version released in 2016 However various developments and advanced have witnessed over time making SQL programming flexible and more reliable especially in storage and quick retrieval of information when the need arises What is sql Sql server and database data types Creating your first database and table Creating your first database and table using command line Sql views and transactions A look at queries Sql tools and strategies Exercises projects and applications Common rookie mistakes Tables The database Tips and tricks of sql Database components Working with subqueries AND MORE Structured Query Language or SQL is a standard programming tool commonly preferred by developers analysts and administrators to design create and supervise rational databases These databases comprise different sets of tables which entail rows or columns filled with data On each column the database or table is filled with information of a given set of identical data such as name address cost or other values On the other hand rows usually contain data values that intersect the information of each column Generally databases are mostly full of tables containing data sets crucial for a given organization including the storage of data for quick retrieval Since it is among computer programming languages SQL is a universal coding programming tool commonly considered a doorway to learn other programming languages such as Python It was first introduced in the 1970s and learners do not necessarily require prior knowledge in programming to venture into learning SQL programming When you are ready to learn about SQL it is always advisable to understand the basics by beginning with simple queries before jumping into complex processes Read and learn from different sources including tutorials while making progress each day Besides engage in creating and designing different databases to advance in trickier programming practices Do you want to learn more What are you waiting for Don't wait anymore press the buy now button and get started [Learn T-SQL From Scratch](#) Brahmanand Shukla,2021-11-20 Advance your career as an SQL Server developer and DBA KEY FEATURES Cutting edge coverage from community experts to learn T SQL programming Detailed explanation of concepts and techniques for easy understanding Numerous practical demonstrations of T SQL querying and programming applications DESCRIPTION This book will teach you the fundamentals of SQL SQL Server databases and how to write queries and programs using T SQL After reading this book you will be able to create modify and delete databases tables and indexes You can practice querying the data and running complex analytics on it You will also be able to add delete and modify procedures user defined functions triggers and views The journey of learning T SQL with this book begins with an understanding of SQL and database fundamentals You'll explore the SQL Server Management Studio SSMS used for developing and managing SQL Server databases You'll then learn how to use DDL statements to create modify and delete tables and indexes Gradually you'll be able to query in T SQL using DML statements joins and various built in functions Successively you'll learn XML and JSON data processing and by the time you'll reach the end of this book you will learn to program in SQL Server and various strategies to deploy your databases and programs

Throughout the book you ll learn through simple examples and straightforward explanations diagrams and numerous real world use cases

WHAT YOU WILL LEARN Concise understanding of relational databases and the SQL Server Learn how to create database tables and indexes using T SQL Learn to add modify and delete records Practice how to slice and dice data by running smart T SQL queries Perform advanced analytical analysis using various functions Discover Error Handling and Transaction Management Administer XML and JSON handling with T SQL Practice different deployment modes for T SQL objects

WHO THIS BOOK IS FOR If you want to know how to design develop and maintain SQL Server databases and run sophisticated T SQL queries without much hassle this book is for you Readers with a basic understanding of programming would have an advantage

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leverage Gen AI methodologies effectively in Snowflake This guide covers key concepts features and programming constructs preparing you to confidently tackle scenario based questions interactive challenges and real world examples on the exam Through this study you will gain the ability to Define and Implement Snowflake Gen AI Principles Understand core capabilities and best practices related to infrastructure robust data governance and efficient cost governance Leverage Snowflake Cortex AI Features Explore powerful tools like Large Language Models LLMs Cortex Analyst Cortex Search Cortex Fine tuning and Snowflake Copilot to address diverse customer use cases Build Open Source Models Develop expertise in deploying and managing open source models using Snowpark Container Services and the Snowflake Model Registry including integration with platforms like Hugging Face Master Document AI Learn to train troubleshoot and optimize models for intelligent document processing tailored to specific customer requirements Target Audience for This Essential Guide This study guide is specifically crafted for AI ML Engineers Data Scientists Data Engineers Data Application Developers and Data Analysts with programming experience Ideal candidates will possess 1 or more years of hands on Gen AI experience with Snowflake in an enterprise environment A strong foundation in Python programming data engineering principles and SQL knowledge is assumed for optimal learning Prerequisites for Certification To be eligible to sit for the Specialty Gen AI Certification Beta Exam candidates must hold an active SnowPro Associate Platform or SnowPro Core Certification Structured for Optimal Learning and SEO The guide is thoughtfully organized into key domains with specific weightings to prioritize your study efforts Snowflake for Gen AI Overview 26% Snowflake Gen AI LLM Functions 40% Snowflake Gen AI Governance 22% Snowflake Document AI 12% Each topic is enriched with additional resources including official Snowflake documentation insightful blogs and practical exercises ensuring a comprehensive and hands on learning experience With an estimated study time of 10 13 hours this guide provides a clear efficient roadmap to achieving your certification goals Your Path to SnowPro Specialty Gen AI Certification Starts Here For a comprehensive overview and to access this invaluable resource visit [QuickTechie.com](https://www.quicktechie.com) Elevate your expertise and validate your skills in the rapidly evolving and in demand field of Generative AI with Snowflake

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projects on Databricks He currently holds eight certifications from Databricks showcasing his proficiency in the field Derar is also an experienced instructor with a proven track record of success in training thousands of data engineers helping them to develop their skills and obtain professional certifications

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