Introductory SQL

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About Databases and SQL

Understanding Database Objects

A **table** is a collection of data about a certain subject like customers, vendors or suppliers. It consists of columns and rows into which you store data.

A **field** is a column within a table. Fields all contain only one type of data. For example, within a customer table you might have a "First_Name" field into which you place only the customers' first names.

A **record** is a row within a table. A record contains one set of related field information about a single entry. For example, in a "Customer" table there may be a customer record that contains all of the field information about a single customer in a single row.

A **primary key** is a special relational database table column (or combination of columns) designated to uniquely identify each table record.

A **query** is used to extract only the data that you want or need to view from the tables. These objects are the "heart" of database design- and the whole point of using databases. Queries provide the data that is needed by the other database objects, often working in the background.

SQL is the language used to create the objects that exist within relational database management systems.

A **database** is the entire collection of tables, queries, and other related objects.

A **relational database management system** (RDBMS) is software used to create and maintain a database.

Database Normalization Guidelines

Database normalization is the process of structuring a database in accordance with **normal forms**- guidelines established to reduce data redundancy, while increasing data integrity in database design. While there are other forms, most database designers find it is adequate to design their relational databases to satisfy the normalization guidelines through the third or fourth normal "forms."

First normal form requires atomic, or unique, values at each column and row intersection in the entity table. There should be no repeating groups. Thus, no "Item1," "Item2" column design like you may see in a "flat-file" table layout.

Second normal form requires that every "non-key" column in a table must depend on the primary key. A table must also not contain a "non-key" column that pertains to only part of a composite, or multi-column, primary key.

Third normal form requires that no "non-key" column should depend on another "non-key" column. This is very similar to the second normal form. You shouldn't have a field that is an attribute of a non-primary key column in a table.

Fourth normal form forbids independent "1-to-many" relationships between primary key columns and non-key columns.

SQL Variations and Core SQL

The specific implementation of the SQL language may vary by vendor within database management software. SQL was designed as a standardized language to implement basic functionality within these programs- including running queries on data, modifying data within tables, displaying views of data, and creating and modifying database structures and data access. Most vendors have included their own vendor-specific extensions to the SQL language. Therefore, you may encounter vendor-specific variations to the standard SQL, often with their own names, such as the "Transact-SQL" which is used within Microsoft SQL Server. The "core" SQL is supported by all of the major database management systems, regardless of their own specific implementations and extensions.

Guide Conventions and Categories

This guide will refer to the core SQL within its examples. Most RDBMS implementations, such as SQL Server and Microsoft Access, require a semicolon at the end of executable SQL statements. However, the examples of core SQL shown in this guide **will not** show a semicolon at the end of the examples, as they are demonstrating core SQL and are not *literal* examples of SQL for any specific RDBMS. This guide will focus on the statements within standard SQL, grouped into four categories. **Data Definition Language (DDL)** statements, such as CREATE and ALTER, are used to create the database container, tables, and other objects. **Data Manipulation Language (DML)** statements, such as SELECT and INSERT, are used to manage the data contained within the tables. **Data Control Language (DCL)** statements, such as GRANT and REVOKE, are used to determine who can access the data and to set referential integrity. **Transactional Control Language (TCL)** statements, such as COMMIT and ROLLBACK, manage the transactions that occur within a database. The following notations are used in the syntax descriptions in the examples within this guide.

Notation	Example	Meaning
ALL CAPS	SELECT	The actual SQL code. Type this text exactly as shown.
Italics	*table_name*	SQL parameters to replace with content described by the italicized term.
|	ASC | DESC	Separates alternative choices from which to choose.
( )	(size)	Values to type for selected SQL commands. Include the parentheses when typing these values.
{ }	{ WHERE clause }	**Optional** or **RDBMS-dependent** clauses or values. Do not type the braces.
[ ]	[* | *field1*, *field2*]	**Required** choices from which to select. Do not type the brackets.
etc.	*field1*, *field2*, etc.	Repeat the pattern established by the preceding values, as needed.

Data Definition Language (DDL)

Creating a Database
CREATE DATABASE *database_name*

Creating a Table
CREATE TABLE *table_name*
(
field_name1 data_type(size),
field_name2 data_type(size),
field_name3 data_type(size),
etc.
)

Creating an Index
Sort a table by values contained in one or more fields.

To create a standard index that allows duplicate field values:
CREATE INDEX *index_name*
ON *table_name (field_name)*

To create a unique index that does NOT allow for duplicate field values:
CREATE UNIQUE INDEX *index_name*
ON *table_name (field_name)*

Creating a User
CREATE USER *user_name*

Creating a Role
CREATE ROLE *role_name*

About SQL Constraints
A constraint is a limitation that is placed upon the allowable values within a field. Constraints can be added to CREATE TABLE or ALTER TABLE statements.

NOT NULL: Field will not accept NULL values.

UNIQUE: Ensures all values entered into the field are unique.

PRIMARY KEY: Defines a field (or combination of fields) within a table as being the primary key. Must be unique and cannot contain NULL values.

FOREIGN KEY: Ensures all values within the field correspond to values found within another table's PRIMARY KEY field. Used as a referential integrity check to ensure that records within a field have a corresponding value within a related table.

CHECK: Specifies the allowable values that can be entered into a table.

DEFAULT: Places a default value into the field specified when a record is entered.

Applying SQL Constraints
[CREATE \| ALTER] TABLE *table_name*

field_name1 data_type(size) constraint_name;
field_name2 data_type(size) constraint_name;
field_name3 data_type(size) constraint_name;
etc.
)

Deleting Database Objects
To delete a database:
DROP DATABASE *database_name*

To delete a table within a database:
DROP TABLE *table_name*

To truncate a table within a database:
TRUNCATE TABLE *table_name*

To delete an index within a database:
DROP INDEX *index_name*

To delete a user within a database:
DROP USER *user_name*

To delete a role within a database:
DROP ROLE *role_name*

Modifying Table Structure
To alter a table to add a field:
ALTER TABLE *table_name*
ADD *field_name data_type*

To alter a table to delete a field:
ALTER TABLE *table_name*
DROP COLUMN *field_name*

To alter a table to modify a field's data type:
ALTER TABLE *table_name*
[MODIFY \| ALTER] COLUMN *field_name data_type*

To alter a table to add an SQL constraint:
ALTER TABLE *table_name*
ADD { CONSTRAINT } *sql_constraint*

To alter a table to delete an SQL constraint:
ALTER TABLE *table_name*
DROP { CONSTRAINT } *sql_constraint*

Sql Quick Reference Guide

Steven Roman

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use cases It will also introduce you to Apache Spark one of the most popular Big Data processing frameworks Although this book is intended to help you get started with Apache Spark but it also focuses on explaining the core concepts This practical guide provides a quick start to the Spark 2 0 architecture and its components It teaches you how to set up Spark on your local machine As we move ahead you will be introduced to resilient distributed datasets RDDs and DataFrame APIs and their corresponding transformations and actions Then we move on to the life cycle of a Spark application and learn about the techniques used to debug slow running applications You will also go through Spark s built in modules for SQL streaming machine learning and graph analysis Finally the book will lay out the best practices and optimization techniques that are key for writing efficient Spark applications By the end of this book you will have a sound fundamental understanding of the Apache Spark framework and you will be able to write and optimize Spark applications What you will learnLearn core concepts such as RDDs DataFrames transformations and moreSet up a Spark development environmentChoose the right APIs for your applicationsUnderstand Spark s architecture and the execution flow of a Spark applicationExplore built in modules for SQL streaming ML and graph analysisOptimize your Spark job for better performanceWho this book is for If you are a big data enthusiast and love processing huge amount of data this book is for you If you are data engineer and looking for the best optimization techniques for your Spark applications then you will find this book helpful This book also helps data scientists who want to implement their machine learning algorithms in Spark You need to have a basic understanding of any one of the programming languages such as Scala Python or Java   *SQL in a Nutshell* Kevin E. Kline,Daniel Kline,2001 Covers SQL Server MySQL Oracle PostgreSQL   *Parklawn Computer Center User's Guide* Parklawn Computer Center (U.S.),1991

Using SQL George Tsu-der Chou,George T. Chou,1990 A general introduction to stand alone database applications explains step by step how to create and access databases using Structured Query Language Discusses how to develop SQL applications embedded in dBASE and Oracle   *Sybase Technical Publications: -[11] APT workbench user's guides (Sybase SQL toolset release 5.0 and 5.2)* ,1990   Computing the Brain Michael A. Arbib,Jeffrey S. Grethe,2001 Watching her sister in a losing battle with anorexia as a result of being unable to cope with the death of their father Holly realizes that her own dreams must be put aside for the moment in order to help her sister get through this difficult period by teaching her how to deal with the loss in a healthy way before it s too late Reprint   *InfoWorld* ,1993-11-08 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects   ADO Examples and Best Practices William R. Vaughn,2000-05-01 ADO Active Data Objects is how the millions of Visual Basic programmers hitch onto Microsoft s amazing Universal Database Access strategy But power breeds complexity and using ADO isn t trivial This book is based on best selling author Bill Vaughn s years of experience working with front line data access developers and the development teams at Microsoft itself Now this Microsoft veteran translates his insights and collected wisdom of over a decade at Microsoft into working solutions for the common and some not so common data related

problems developers face every day ADO Examples and Best Practices focuses on addressing data problems at the root through better designs and better ADO coding practices These suggestions often yield far better performance both for the developer who is able to write better code more quickly and for the application it runs faster with less resources About the Author William R Vaughn is currently a Developer Trainer at Microsoft He has taught written lectured sold supported designed coded managed and cried over mainframe and microcomputer systems and software for 28 years He has been at Microsoft since 1986 and has held positions ranging from writing teaching and managing trainers at the Microsoft University MSU to being Visual Basic Enterprise Product Manager During his last two years at Microsoft he has been with the Internal Technical Education group teaching Microsoft employees themselves While there he developed and taught courses on Visual Basic data architectures and ActiveX Data Objects ADO **Pro T-SQL Programmer's Guide** Jay Natarajan,Rudi Bruchez,Michael Coles,Scott Shaw,Miguel Cebollero,2015-03-02 Pro T SQL Programmer s Guide is your guide to making the best use of the powerful Transact SQL programming language that is built into Microsoft SQL Server s database engine This edition is updated to cover the new in memory features that are part of SQL Server 2014 Discussing new and existing features the book takes you on an expert guided tour of Transact SQL functionality Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact SQL into your own hands Step by step explanations ensure clarity and an advocacy of best practices will steer you down the road to success Transact SQL is the language developers and DBAs use to interact with SQL Server It s used for everything from querying data to writing stored procedures to managing the database Support for in memory stored procedures running queries against in memory tables is new in the language and gets coverage in this edition Also covered are must know features such as window functions and data paging that help in writing fast performing database queries Developers and DBAs alike can benefit from the expressive power of T SQL and Pro T SQL Programmer s Guide is your roadmap to success in applying this increasingly important database language to everyday business and technical tasks Covers the newly introduced in memory database features Shares the best practices used by experienced professionals Goes deeply into the subject matter an advanced book for the serious reader **LINQ For Dummies** John Paul Mueller,2009-02-25 If you ve asked yourself Why can t I develop database and XML queries in a language I already know then Language INtegrated Query or LINQ is for you LINQ For Dummies introduces you to LINQ and the NET Framework technologies so you can use LINQ to query any object any data set any kind of XML and SQL Server no questions asked This plain English guide gives you a thorough overview of LINQ from understanding the tasks it performs to making LINQ work with both Visual Basic and Visual Studio 2005 It explains the four LINQ providers in the NET Framework the easiest ways to go about accessing data and how to write more efficient applications with less code using LINQ There s also clear guidance on combining third party providers with LINQ to create even more powerful apps With this single comprehensive guide you ll discover how to Use one query language with all

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