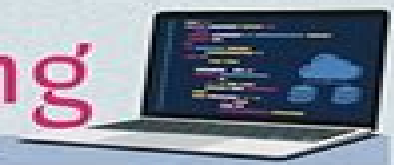




SQL Programming



Core commands, statements, syntax, and terms for support of the novice and expert

OVERVIEW

- SQL stands for Structured Query Language
- Domain-specific language used for managing and manipulating relational databases
- Provides a standardized way to interact with relational database management systems (RDBMS)
- Allows users to define, query, update, and manage data
- Widely used in various applications
 - Ranging from simple web applications to complex enterprise systems
- Declarative language
 - Users specify the desired results
 - The database management system determines the most efficient way to retrieve or manipulate the data

HISTORY

- Developed in the 1970s by IBM
- Originally called SEQUEL (Structured English QUery Language)
- In 1986, the American National Standards Institute (ANSI) designed a standard that allowed database vendors better interoperability between versions
 - This made it easier to learn and migrate between database vendors
 - Updated in 1989, 1992, and 1999
- One of SQL-92's major changes was the introduction of conformance levels
 - From simplest to most complete, they were implementations of the standard: Entry, Intermediate, and Full
 - Each level encompassed preceding levels and added new capabilities
 - To claim ANSI compliance, the product had to at least support the Entry level
- The latest standard, SQL-99, added (among other things) object-oriented data types
 - Also changed Entry level conformance to Core SQL:1999

POPULAR RDBMS

- MySQL
- MariaDB
- PostgreSQL
- Oracle Database
- Microsoft SQL Server
- Each of these database systems may have some variations in syntax and additional features
- The core principles of SQL remain consistent across them

WHAT THIS GUIDE COVERS

- ANSI SQL-99 as used by Microsoft SQL Server
 - Other databases may not use all of these commands and sometimes may use different or additional ones
- Simple to explain differences between the five main database products
- There is not enough room to detail all major differences
 - If in doubt, check the reference manual for the database you are using

KEY COMPONENTS & OPERATIONS

DATA DEFINITION LANGUAGE (DDL)

CREATE Creates database objects such as tables, indexes, or views

ALTER Modifies the structure of existing database objects

DROP Deletes database objects

DATA MANIPULATION LANGUAGE (DML)

SELECT Retrieves data from one or more tables

INSERT Adds new records to a table

UPDATE Modifies existing records in a table

DELETE Removes records from a table

DATA CONTROL LANGUAGE (DCL)

GRANT Provides specific privileges to database users

REVOKE Removes specific privileges from database users

TRANSACTION CONTROL LANGUAGE (TCL)

COMMIT Saves all changes made during the current transaction

ROLLBACK Undoes changes made during the current transaction

SAVEPOINT Sets a point within a transaction to which you can later roll back

DATA QUERY LANGUAGE (DQL)

SELECT Retrieves data from one or more tables on the basis of specified criteria

CONVENTIONS

Notation	Example	Meaning
BOLD CAPS	SELECT	SQL keyword—type as seen
<i>Italic text</i>	<i>database_name</i>	Replace with required value
[]	[ORDER BY <i>field_name</i>]	Optional syntax; do not type the []
{ }	{FROM <i>Orders</i> }	Parameters (or one of them if multiple options are given) must be specified, e.g., the FROM clause must be specified in a SELECT statement Do not type the { }
	NULL NOT NULL	Separates options, only one of which may be used
(n)	(27)	Replace n with the required number
Expression	<i>field_name</i> or SUM(<i>field_name</i>)	Field, variable, or combination of fields and/or variables separated by operators; or a function involving fields and/or variables
<text>	<filespec>	Definition of parameter referenced elsewhere

DATA TYPES

- A **database** is a structured collection of records or data stored in a computer system and organized in such a way that:
 - It can be quickly searched
 - Information can be readily retrieved
- A **SQL database** contains one or more tables, each of which contains records (or rows)
 - Within these rows are various fields (or columns) that contain the data itself
- SQL supports the storage of a wide range of data types:
 - From a single bit of information up to entire documents and images
 - Handy data types for processing commonly used types of information, such as finances and dates

NUMERIC TYPES

- Store numeric data, such as integers, decimals, and floating-point numbers
- Specific numeric types available may vary between database systems
- BIT** Either 0 or 1, using 1 bit
- BOOL/BOOLEAN** (Not SQL Server or Oracle) Either TRUE or FALSE, using 1 bit
- TINYINT** Integers between 0 and 255 (or -128 and 127, if signed), using 1 byte
- SMALLINT** Integers between 0 and 65535 (or -32,768 and 32,767, if signed), using 2 bytes
- MEDIUMINT** Integers between 0 and 1,677,721 (or -8,388,608 and 8,388,607, if signed), using 3 bytes
- INT/INTEGER** Integers between 0 and 4,294,967,295 (or -2,147,483,648 and 2,147,483,647, if signed), using 4 bytes
- BIGINT** Integers between 0 and 1,844,674,407,371 (or -9,223,372,036,854,775,808 and 9,223,372,036,854,775,807, if signed), using 8 bytes
- DEC/DECIMAL (p, s)** Numbers with up to 38 digits of precision (p) and a scale (s) representing the number of digits after the decimal point, using between 5 and 17 bytes
- NUMERIC (p, s)** Generally same as DECIMAL; with some databases, NUMERIC will only go to the specified number of decimals, while DECIMAL will be at least that exact, if not more so
- NUMBER (p, s)** (Oracle only) Equivalent to the NUMERIC or DECIMAL data types
- REAL** Numbers between -1.40e+38 and 1.40e+38, using 4 bytes
- BIG/DOUBLE** Numbers between -1.80e+308 and 1.80e+308, using 8 bytes
- SMALLMONEY** (SQL Server only) Currency values between -2.14e+5 and 2.14e+5 with four-digit accuracy after the decimal point, using 4 bytes
- MONEY** (SQL Server/PostgreSQL only) Currency values between -9.22e+14 and 9.22e+14 with four-digit accuracy after the decimal point, using 8 bytes

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