

# SQL

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For MAC : -<https://www.youtube.com/watch?v=fJmK5Nkokok>

For Windows : <https://www.microsoft.com/en-in/sql-server/sql-server-downloads>

For SSMS -- <https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16>

## SQL

It is a non-procedural language to communicate with any database : Oracle , Sql Server ,MySQL

SQL -- SEQUEL

Every command needs to be terminated with ; ( It is optional here in SQL SERVER)

SQL can be called NLI(Natural Language Interface).

SQL Contains following sublanguages ( Categorized)

1. DDL (create , alter , drop ,truncate) -- Database or may be the structure of a table
2. DML (Insert , Update , Delete)
3. DQL (Select )
4. TCL (commit , rollback , savepoint)
5. DCL(Grant , Revoke)

Schema : Blueprint of all the database

DATABASE : Collection of tables

Tables : Collection of records

Data types in SQL Server

Int --- Tinyint , smallint ,bigint

Decimal -- Decimal(P,S) , Numeric(P,S)

Money

DateTime , Date , Time --- YYYY/MM/DD

Char(Size) -- Static data type

Varchar (size/max) -- dynamic data type

create database demo

use demo

-- one character or max to 128 characters ,, a table can contain max 1024

create table student

(

studid int,

sname varchar(30),

salary decimal(6 , 2)

)

Alter table student alter column salary decimal(5,2)

alter table student add marks decimal(5,2)

alter table student drop column marks ;

sp\_rename 'student' , 'studentdata'

sp\_rename 'studentdata.salary' , 'sal'

insert into studentdata values(10,'Niti' , 100.00)

select \* from studentdata

truncate table studentdata --structure of a table exist but data will be deleted

Table

id	int	Unique
name	Varchar()	Not Null

drop table studentdata