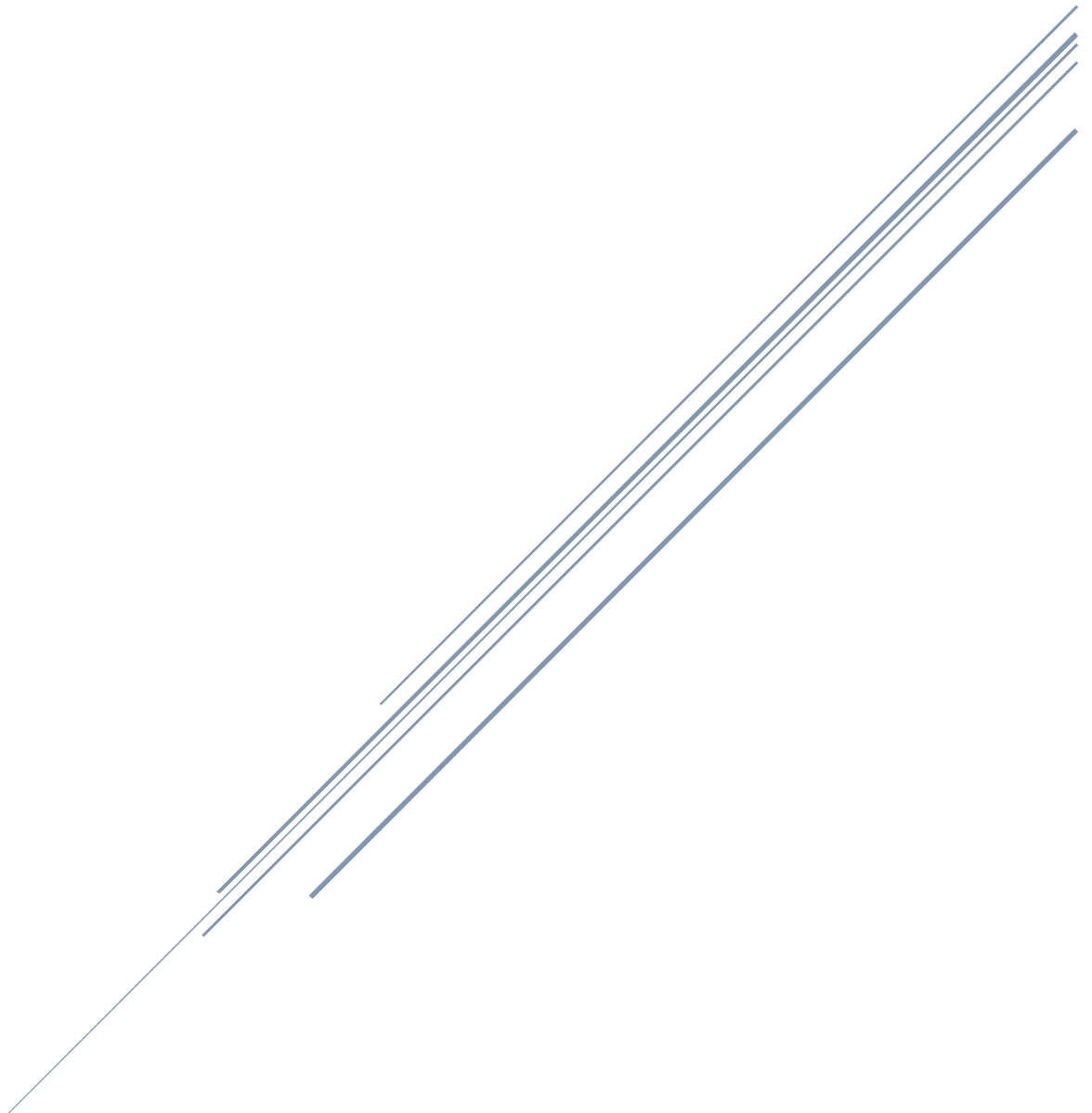# SQL SERVER DBA TRAINING

SQL Server & Database Overview

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What is the database?

A database in SQL Server is made up of a collection of tables that stores a specific set of structured data. A table contains a collection of rows, also referred to as records or tuples, and columns, also referred to as attributes. Each column in the table is designed to store a certain type of information, for example, dates, names, dollar amounts, and numbers.

Key Word

☑

Collection of tables to store data.

☑

Tables contain collection of rows within the column.

☑

Each column design to store certain type of information such as, id, name, age, salary, address, date of birth and so many.

Top Database Software in the market

Here is the top database vendor

- Microsoft SQL Server from Microsoft
- Oracle database from Oracle
- MySQL - Open Source
- Sybase - SAP
- MongoDB from mongo

Why SQL Server

It particularly shines in the areas of administration/management, security, and dealing with multiple data types/structures,

Here are the few reasons why SQL Server is the top RDMBS system on the market

- MS SQL Server support various edition
- Microsoft premium support
- Compatible with other Microsoft product
- Huge documentation
- Support for on Linux operating system as well,
- Free developer Edition with all enterprise level of feature
- Plenty of career opportunities.
- Easy to learn and configure

Sql Server Version

- SQL Server 2019
- SQL Server 2017
- SQL Server 2016
- SQL Server 2014
- SQL Server 2012
- SQL Server 2008 R2
- SQL Server 2008

SQL Server Editions

MS sql server edition below

1. Enterprise Edition.
2. Standard Edition
3. Developer Edition.
4. Enterprise Evaluation Edition.
5. Express version

SQL Server editions

The following table describes the editions of SQL Server.

SQL Server edition	Definition
Enterprise	The premium offering, SQL Server Enterprise edition delivers comprehensive high-end datacenter capabilities with blazing-fast performance, unlimited virtualization[1], and end-to-end business intelligence - enabling high service levels for mission-critical workloads and end-user access to data insights.
Standard	SQL Server Standard edition delivers basic data management and business intelligence database for departments and small organizations to run their applications and supports common development tools for on-premises and cloud - enabling effective database management with minimal IT resources.
Web	SQL Server Web edition is a low total-cost-of-ownership option for Web hosting and Web VAPs to provide scalability, affordability, and manageability capabilities for small to large-scale Web properties.
Developer	SQL Server Developer edition lets developers build any kind of application on top of SQL Server. It includes all the functionality of Enterprise edition but is licensed for use as a development and test system, not as a production server. SQL Server Developer is an ideal choice for people who build and test applications.
Express editions	Express edition is the entry-level, free database and is ideal for learning and building desktop and small server data-driven applications. It is the best choice for independent software vendors, developers, and hobbyists building client applications. If you need more advanced database features, SQL Server Express can be seamlessly upgraded to other higher end versions of SQL Server. SQL Server Express Local DB is a lightweight version of Express that has all of its programmability features, runs in user mode and has a fast, zero-configuration installation and a short list of prerequisites.

<u>Key Point of MS sql server version</u>

Enterprise

- Delivers comprehensive high-end datacenter capabilities with blazing-fast performance,
- Unlimited virtualization.
- All high availability feature including Always On
- Use for missing critical application,
- Licensee price high

Developer

- Use for non-prod activity like build application and test
- Same feature as enterprise editions but is licensed for use as a development and test system, not as a production server.

Web

- SQL Server Web edition is a low total-cost-of-ownership option for Web hosting
- It provides manageability capabilities for small to large-scale Web properties

Express

- Express edition is the entry-level, free database
- It's ideal for learning and building desktop and small server data-driven applications
- If you need more advanced database features, SQL Server Express can be seamlessly upgraded to other higher end versions of SQL Server.