



# S V C E

Sri Venkateswara  
College of  
Engineering



Certified Organization

35 Years of Excellence

**Department Of Computer Science and Engineering**

*Organized by*

**Online short term Training Program (STTP)**

**On**

**SQL Programming**

**Convener**

**Dr.R.Anitha**

**Coordinator**

**Mr.R.SenthilKumar**

**Venue : Google meet**

**Date : 02/02/2021**

**Time : 3.30 PM to 4.30 PM**





Certified Organization

**SACE** | Sri Venkateswara College of Engineering  
Autonomous - Affiliated to Anna University  
Pennalur, Sriperumbudur, Tamil Nadu | [www.svce.ac.in](http://www.svce.ac.in)



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### *About the Course*

This SQL certification course is an online in class training for My SQL and is meant for learners who help them master the descriptive learning language and database concepts for working for relational databases. The important topics included in this certification are SQL introduction, relational databases, queries, sub queries, joins and unions. After successful completion, of the learners will gain considerable proficiency in the theory of optimization, indexing, transactions, database administration, installation of SQL server and clustering.

### *Why take this Course?*

SQL is one of the most important programming languages for working on large sets of databases. Due to Big Data explosion today the amount of data that enterprises have is becoming humongous. This creates a need for Developers who can convert it into a format that can be used by the instructor to teach the students. The exam means to help the students to gain the necessary skills to work in the Information Technology field.

## Course Content

Module /Topic	2 Hrs
<p>Introduction to SQL</p> <ul style="list-style-type: none"> <li>❖ The various types of databases</li> <li>❖ Introduction to Structured Query Language, the distinction between client-server and file server databases</li> <li>❖ Understanding SQL Server Management Studio, SQL Table basics, data types, and functions, Transaction-SQL</li> <li>❖ Authentication for Windows, Data control language</li> <li>❖ Identification and Keywords in T-SQL, Drop Table</li> </ul>	2 Hrs
<p>SQL Operators</p> <ul style="list-style-type: none"> <li>❖ Introduction to relational databases</li> <li>❖ Basic concepts of relational table</li> <li>❖ Working with rows and columns, various operators used like logical and relational, domains, constraints, stored procedures, indexes</li> <li>❖ Primary key and foreign key</li> <li>❖ Understanding group functions, unique key</li> </ul>	2 Hrs
<p>Deep Dive into SQL Functions</p> <ul style="list-style-type: none"> <li>❖ Understanding what SQL functions do, aggregate functions, scalar functions</li> <li>❖ Functions that work on different data sets like numbers, characters &amp; strings, dates</li> <li>❖ Learning Inline SQL functions</li> <li>General functions and duplicate functions</li> </ul>	3 Hrs

**Working with Sub Queries**

**3 Hrs**

- ❖ Understanding of SQL Subqueries, rules of Subqueries
- ❖ The statements and operators with which Subqueries can be used
- ❖ Modification of subqueries using a set clause
- ❖ Understanding the different types of Subqueries – Where, Insert, Update, Select, Delete, etc.,
- ❖ Ways to create and view Subqueries

**SQL Views, Functions, Stored Procedures**

**3 Hrs**

- ❖ Learning about SQL Views
- ❖ Ways of creating, using, altering, dropping, renaming and modifying Views
- ❖ Understanding Stored Procedures
- ❖ Key benefits of it, working with Stored Procedures, error handling, studying user-defined functions
- ❖ When to execute Triggers?