



**Course Name:** Microsoft SQL Server Professional Certification Course

**Course Overview:**

This comprehensive SQL Server course offers a deep dive into database management and manipulation using SQL Server. Participants will start with foundational concepts including server architecture and data types. The curriculum progresses through essential database operations, advanced data manipulation and query techniques, mastering aggregate functions, using various SQL operators, and understanding clauses. Advanced topics cover key constraints, indexing, complex queries involving joins, CTEs, and practical applications of functions for data analytics and manipulation, ensuring a thorough proficiency in SQL Server.

**What You'll Learn?**

This curriculum teaches comprehensive SQL Server usage, from basic database operations, data types, and table management to advanced skills in SQL functions, operators, clauses, and expert-level techniques like indexing, joins, and complex queries for data manipulation and analysis.

**Internship Program:**

In addition to the course, you will participate in a 3-month internship involving six live projects. Upon successful completion, you will receive an Internship Certificate.

**Letter of Recommendation:**

Upon successfully completing the program and internship, you will also receive a Letter of Recommendation (LOR).

**Duration:**

36 Hours (6 Weeks) + 3 Months (Internship Program)

**Requirements:**

Microsoft SQL Management Studio

**Pre-requisite:**

No pre-requisite



## Curriculum

### Module 1: Introduction to SQL Server

1. Introduction to SQL Server
2. SQL Server Datatypes

### Module 2: DB Operations

1. SQL Server Login Database
2. SQL Server Create Database
3. SQL Server Select Database
4. SQL Server DROP Database

### Module 3: SQL Server Database

1. SQL Server Create Table
2. SQL Server Delete Table
3. SQL Server Insert Data
4. SQL Server Update Data
5. SQL Server Delete Data
6. SQL Server Delete TOP
7. SQL Server ALTER Table
8. View in SQL Server

### Module 4: Aggregate Function

1. SQL Server MIN Function
2. SQL Server MAX Function
3. SQL Server SUM Function
4. SQL Server AVG Function



5. SQL Server COUNT Function

**Module 5: SQL Server Operators**

1. SQL Server Comparison Operator
2. SQL Server UNION Operator
3. SQL Server INTERSECT Operator
4. SQL Server IN Operator
5. SQL Server NOT Operator
6. SQL Server BETWEEN Operator
7. SQL Server IS NULL Operator
8. SQL Server IS NOT NULL Operator
9. SQL Server LIKE Operator
10. SQL Server EXIST Operator

**Module 6: SQL Server Clauses**

1. SQL Server DISTINCT Clause
2. SQL Server GROUP BY Clause
3. SQL Server WHERE Clause
4. SQL Server ORDER BY
5. SQL Server HAVING
6. SQL Server SELECT
7. SQL Server GROUPING SETS

**Module 7: SQL Server Keys**

1. SQL Server Primary Keys
2. SQL Server Foreign Key

**Module 8: Expert Level**

1. SQL Server Substring



2. CTE in SQL Server
3. Index in SQL Server
4. SQL Server Row Number
5. Rename Columns in SQL Server
6. SQL Server CASE
7. SQL Server JOINS
8. Add Columns in SQL Server
9. Drop Column in SQL Server
10. SQL Server Describe Table
11. SQL Server Replace
12. SQL Server COALESCE
13. SQL Server IF ELSE
14. SQL Server ISNULL Function
15. SQL Server CAST
16. SQL Server CONVERT
17. SQL Server SELECT INTO
18. SQL Server Aggregate Functions
19. SQL Server INSERT INTO SELECT
20. SQL Server NULLIF
21. SQL Server Copy Tables
22. SQL Server Rename Table
23. SQL Server Truncate Table
24. How to find SQL Server Version
25. SQL Server CHARINDEX() Function
26. Table Variable in SQL Server



27. RANK Function in SQL Server
28. SQL Server PIVOTEOMONTH Function in SQL Server
29. SQL Server Alias
30. SQL Server Left Function
31. SQL Server Sequence
32. SQL Server Synonym
33. SS DATEDIFF Function
34. SQL Server WHILE LOOP
35. Find and Delete Duplicates from a Table in SQL Server
36. SQL Server CURRENT\_TIMESTAMP Function
37. SQL Server DATEADD Function
38. SQL Server MERGESQL Server OFFSET FETCH
39. SQL Server CROSS JOIN
40. SQL SERVER UPDATE JOIN
41. SQL Server Comments
42. SQL Server IDENTITY
43. SQL Server CONCAT Function
44. SQL Server CONCAT\_WS Function
45. SQL Server Constraints
46. SQL Server Functions
47. SQL Server Window Functions
48. SQL Server Date Functions
49. SQL Server Mathematical Functions
50. SQL Server RENAME Database
51. SQL Server Show/List Databases

52. SQL Server Composite Key

53. View

54. SQL Server Unique Key

**Module 9. Interview, Jobs & Freelance work in SQL**

1. Interview questions

2. Interview tips

3. How to crack job interview

4. How to register for freelancing work

5. How to get freelance work

**Module 10. SQL Professional Internship Program**

1. 6 Live Professional Projects