COURSE SYLLABUS

SQL Server Bootcamp (Self-Paced)

Learn how to extract actionable insights from databases by writing SQL queries, filtering data, and joining tables. This comprehensive SQL Server Bootcamp covers the fundamentals of SQL and how to apply them across various database systems.

Group classes in Live Online and onsite training is available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/sql-server-bootcamp-self-paced

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Course Outline

This package includes these courses

- SQL Level I (Self-Paced) (6 Hours)
- SQL Level III (Self-Paced) (6 Hours)
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SQL Level I (Self-Paced)

- Understand core database concepts, including tables, rows, columns, and different types of SQL
- Connect to databases and navigate SQL Server Management Studio using tools like Object Explorer and Query Editor
- Write SELECT statements to retrieve data, specify columns, sort results, and remove duplicates
- Use WHERE, AND, OR, IN, and NOT clauses to filter data and apply pattern matching with wildcard characters
- Explore data types, comparison operators, and case sensitivity to refine queries with greater control
- Learn to join tables using INNER JOIN and understand relational database concepts through ER diagrams and table aliases

SQL Level III (Self-Paced)

- Write subqueries to create layered queries using single-value, multi-value, and table-value structures
- Use window functions with OVER and PARTITION BY to apply aggregate logic across rows without grouping
- Implement conditional logic with CASE and IIF statements to dynamically transform query results
- Manipulate text data using string functions like SUBSTRING, CHARINDEX, UPPER, and more
- Apply self-joins to compare records within the same table and understand their structure and use cases
- Build and query views, user-defined functions, and stored procedures to modularize your SQL code

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