

SQ1000 - Cross Platform SQL Essentials

Course Synopsis	Duration:	Two (2) days
	Audience:	Programmers, Analysts, Database Administrators, and IT Managers who are exposed to, or are required to perform the activities associated with data stored in a relational database such as DB2, Oracle or SQL Server.
	Prerequisites:	None.
	Delivery Method:	Instructor led, Hands-on workshops

Brief Description	<p><i>Come prepared to master Structured Query Language (SQL) across multiple database platforms in this fast paced and hands-on course. The course begins with a discussion of relational concepts and terminology and quickly moves into a very practical discussion of data retrieval and manipulation using SQL. Each topic is reinforced with hands-on workshops.</i></p> <p><i>Examples and workshops are provided for the following platforms with discussion of the relevant differences:</i></p> <ul style="list-style-type: none"> • DB2 for z/OS • DB2 for Linux, Unix & Windows • Oracle 10g & 11g • Microsoft SQL Server
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Topics Covered	<p>I. Relational Database Concepts</p> <ul style="list-style-type: none"> • The Relational Model • Domains • Integrity and Relationships • Structured Query Language (SQL) • Unknown Values (NULL) • Basic Datatypes 	<p>III. Intermediate Data Manipulation</p> <ul style="list-style-type: none"> • Compound Conditions • Other WHERE Clause Operators <ul style="list-style-type: none"> – BETWEEN – IN – LIKE – IS NULL • Using DISTINCT • ORDER BY Clause
	<p>II. Basic Data Retrieval</p> <ul style="list-style-type: none"> • SELECT Statement • Using SELECT • Projecting Columns Onto the Result • Basic Predicates • Expressions in the SELECT Clause • Expressions in the WHERE clause 	<p>IV. Built-in Functions</p> <ul style="list-style-type: none"> • Working with Datatypes and Casting • Functions Involving NULLs • CASE Statements

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Covered Continued****V. Aggregation**

- SUM, AVG, MIN, MAX & COUNT Functions
- Grouping Results with GROUP BY
- Filtering Groups with HAVING

VI. Joins

- Inner Equi-Join
- Join Classification
- Cartesian Products
- Inner Joins of More than 2 Tables

VII. Data Modification

- INSERT
- UPDATE
- DELETE
- COMMIT and ROLLBACK