

SQL for Software Testers		Topical Outline
<ul style="list-style-type: none"> • Describe the basic structures of databases • Write SQL code to populate test databases • Write SQL code to validate results from dynamic testing • Use SQL code for static testing techniques • Use SQL for data mining to generate better test cases • Use SQL to generate sets of test data • Write SQL to test stored procedures • Actively participate in technical discussions of the database with the programmers 		<p>Understanding Database Structures</p> <ul style="list-style-type: none"> ➤ Understanding data and data types ➤ Understanding attributes ➤ Understanding Tables & Records <p>Understanding SQL</p> <ul style="list-style-type: none"> ➤ SQL components ➤ Simple SQL – Create, Retrieve, Update and Delete ➤ More advanced SQL- joins and sub queries ➤ What to do with the data you've retrieved
<p>Description</p> <p>This two day, hands-on course provides students with a working knowledge of Structured Query Language (SQL) to be more effective in testing software applications. This course provides a foundation of knowledge of database structures and SQL commands, and provides hands-on experience specifically for testers. The course will be taught using a backend Access db and writing the SQL commands via Access and/or MSQUERY.</p>	<p>Audience, Prerequisites</p> <p>The course is intended for beginner or intermediate testers, analysts and engineers who need to develop a working knowledge of SQL to support their testing efforts.</p> <p>Course length: 2 days</p> <p>Course format: lecture plus individual and group exercises and discussions.</p>	<p>Analyzing Database Design</p> <ul style="list-style-type: none"> ➤ Major DB Vendors and basic differences in commands & SQL Tools ➤ Data Mining for bugs and test cases ➤ Using ODBC ➤ Triggers and cursors ➤ Stored Procedures ➤ Timing and locking issues <p>Data Integrity</p> <ul style="list-style-type: none"> ➤ Looking for data integrity bugs ➤ Maintaining multiple test databases ➤ Testing a database migration/conversion