



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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dashDB SQL for Subqueries, Functions, Procedures, and Performance - eLearning

CODE:	LENGTH:	PRICE:
K04009G	8 Hours	\$150.00

Description

This course is intended for Developers, Database Administrators, and System Programmers who require further insight into the SQL language.

Note: Guided eLearning is a self-paced offering which includes web-based content for self-study and videos (including audio) that demonstrate activities.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course. <http://www.ibm.com/training/terms>

Objectives

Please refer to course overview

Audience

This course is intended for Developers, Database Administrators, and System Programmers who require further insight into the SQL language.

Prerequisites

• dashDB SQL for Basic Queries (K04001) • dashDB SQL for tables, views, advanced queries, and analytic constructs (K04004) • Or equivalent experience or knowledge

Programme

1. Using Subqueries • Subquery in a basic predicate • Subquery with IN predicate • Subquery with a NOT IN predicate • Subquery with ORDER BY • Subquery with ALL predicate • Subquery with ANY or SOME predicate • Subquery with EXISTS predicate • Activity • SQL challenges
2. Using correlated subqueries • Correlated subquery with an EXISTS predicate • Scalar fullselect as a correlated subquery • Update statement including a subquery • Activity • SQL Challenges
3. Scalar functions (other than DATE/TIME functions) • Scalar function – SUBSTR – substring • Scalar function – POSSTR – string position • Scalar function – COALESCE/VALUE • Scalar function – DECIMAL • Scalar function – ROUND • Scalar function – DIGITS • Scalar function – SQRT and POWER • Scalar function – CHAR with arguments other than date/time • Scalar function – LENGTH • Scalar functions – LTRIM/RTRIM – Left TRIM/Right Trim • Activity • SQL challenges
4. Scalar functions – DATE/TIME functions • DATE, TIME, and TIMESTAMP formats • Scalar function – CHAR with date/time arguments • Scalar functions – date related (part 1) • Scalar functions – date related (part 2) • Scalar functions – time related • Labelled DATE/TIME durations • Activity • SQL challenges
5. Table expressions • Nested table expressions • Nested table expressions in Joins • Common table expressions (CTEs) • SQL challenges
6. Recursive SQL • SQL challenges
7. Introduction to UDTs, UDFs, and stored procedures • User-defined distinct Types (UDTs) • User-defined functions (UDFs) • Sourced user-defined functions • External user-defined functions • User-defined SQL functions • User-defined stored procedures • Activity • SQL challenges
8. SQL and dashDB performance • Note on indexes • dashDB optimizer • Index overview • Clustered and non-clustered indexes • Index utilization • Predicate processing • General guidelines – correlated subqueries • General guidelines – minimize dashDB sorts • General guidelines – view usage • General guidelines – expressions • General guidelines – NOT EQUAL predicates • General guidelines – arithmetic • General guidelines – conversion • General guidelines – retrieve only necessary data • Monitor the SQL workload and use the EXPLAIN facility • SQL challenges

Session Dates

On request. Please [Contact Us](#)

Additional Information

This training is also available as onsite training. Please [contact us](#) to find out more.