

HPE NonStop SQL/MP Essentials U4181S

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Delivery mode	ILT, VILT
Course length	4 days
HPE course number	U4181S

This course is an introduction to the HPE NonStop SQL/MP database product and serves as a prerequisite to more advanced courses. Hands-on lab sessions provide practical experience with creating databases and generating queries to access the data. The course is 70% lecture and 30% hands-on labs using HPE NonStop servers.

Why HPE Education Services?

- IDC MarketScape leader 5 years running for IT education and training*
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Audience

- Anyone working with or interested in the HPE NonStop SQL/MP product
- Anyone responsible for managing or designing a database or developing embedded SQL programs

Prerequisites

 U4147S: Concepts and Facilities for HPE NonStop Systems

Course objectives

At the conclusion of this course you should be able to:

Understand relational database concepts and terminology

Benefits

At the end of this course students will learn:

- Relational database concepts and terminology
- HPE NonStop SQL/MP components
- HPE NonStop SQL/MP database structures
- HPE NonStop SQL/MP conversational interface
- HPE NonStop SQL/MP queries
- HPE NonStop SQL/MP database object creation and management

Next Steps

- U4182S: HPE NonStop SQL/MP Programming
- U4183S: HPE NonStop SQL/MP Query Design for Performance
- U4180S: HPE NonStop SQL/MP Database Management

^{*}Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, October 2017

Course data sheet Page 2

Detailed course outline

Module 1 - Relational Database Definitions Module 2 - SQL/MP Physical Architecture Module 3 - NonStop SQL/MP Process Architecture	Flat-file systems and relational database management systems (RDMBS) Components of a relational table Relational database structure Characteristics and functions of NonStop SQL/MP objects Characteristics and functions of NonStop SQL/MP processes Function and important aspects of each of the processes	 Primary and foreign keys in a relational table Different types of relationships How relationships are formed in a relational database Function and important aspects of each of the objects Overall data flow
Module 4 - NonStop SQL/MP - The SQL Language	Standard types of SQL statements and their functions	
Module 5 - NonStop SQL/MP Conversational Interface	Setting up an SQLCI session Standard SQLCI commands	Ad hoc query processing SQLCI Report Writer
Module 6 - Generating Queries for Single Tables	Core syntax, structure, and function of an SQL query	
Module 7 - Generating Queries Against Multiple Tables	Concept of a "join"Simple join examples	How joining works and how to work through a join
Module 8 - SQL Subqueries	Concept of a subquery Two types of subqueries	Syntax of subqueries
Module 9 - Creating a NonStop SQL/MP Database	CatalogTablePartitionIndex	ConstraintViewCommentCollation
Module 10 - Creating Rows and Loading a NonStop SQL/ MP Database	Referential integrityHow to use the INSERT statement	SQL utilities, CONVERT, COPY, and LOA
Module 11 - Modifying Database Data	Business transactions and Transaction Control Language (TCL) SQL commands SQL UPDATE and DELETE commands	Locking mechanisms
Module 12 - NonStop SQL Management Functions	Introduction to managing an SQL/MP database Syntax to alter or drop a NonStop SQL/MP object Impact and considerations to alter or drop SQL objects in the database	Security issues related to adding, altering, or dropping an SQL object from the database Object dependencies SQLCI and NonStop kernel utilities

Page 3 **Course data sheet**

Learn more at hpe.com/ww/learnNonStop

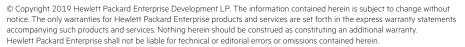
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