



HPE NonStop SQL/MP Essentials U4181S

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

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

Detailed course outline

Module 1 - Relational Database Definitions	<ul style="list-style-type: none"> Flat-file systems and relational database management systems (RDMBS) Components of a relational table Relational database structure 	<ul style="list-style-type: none"> Primary and foreign keys in a relational table Different types of relationships How relationships are formed in a relational database
Module 2 - SQL/MP Physical Architecture	<ul style="list-style-type: none"> Characteristics and functions of NonStop SQL/MP objects 	<ul style="list-style-type: none"> Function and important aspects of each of the objects
Module 3 - NonStop SQL/MP Process Architecture	<ul style="list-style-type: none"> Characteristics and functions of NonStop SQL/MP processes Function and important aspects of each of the processes 	<ul style="list-style-type: none"> Overall data flow
Module 4 - NonStop SQL/MP - The SQL Language	<ul style="list-style-type: none"> Standard types of SQL statements and their functions 	
Module 5 - NonStop SQL/MP Conversational Interface	<ul style="list-style-type: none"> Setting up an SQLCI session Standard SQLCI commands 	<ul style="list-style-type: none"> Ad hoc query processing SQLCI Report Writer
Module 6 - Generating Queries for Single Tables	<ul style="list-style-type: none"> Core syntax, structure, and function of an SQL query 	
Module 7 - Generating Queries Against Multiple Tables	<ul style="list-style-type: none"> Concept of a "join" Simple join examples 	<ul style="list-style-type: none"> How joining works and how to work through a join
Module 8 - SQL Subqueries	<ul style="list-style-type: none"> Concept of a subquery Two types of subqueries 	<ul style="list-style-type: none"> Syntax of subqueries
Module 9 - Creating a NonStop SQL/MP Database	<ul style="list-style-type: none"> Catalog Table Partition Index 	<ul style="list-style-type: none"> Constraint View Comment Collation
Module 10 - Creating Rows and Loading a NonStop SQL/MP Database	<ul style="list-style-type: none"> Referential integrity How to use the INSERT statement 	<ul style="list-style-type: none"> SQL utilities, CONVERT, COPY, and LOA
Module 11 - Modifying Database Data	<ul style="list-style-type: none"> Business transactions and Transaction Control Language (TCL) SQL commands SQL UPDATE and DELETE commands 	<ul style="list-style-type: none"> Locking mechanisms
Module 12 - NonStop SQL Management Functions	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Security issues related to adding, altering, or dropping an SQL object from the database Object dependencies SQLCI and NonStop kernel utilities

Learn more at
hpe.com/ww/learnNonStop

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