Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

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Informix Structured Query Language

CÓDIGO:	DURACIÓN:	Precio:
1X131G	24 Hours	€450.00

Description

In this course, you will learn to write queries using ANSI standard Structured Query Language (SQL) with IBM Informix extensions. You will start with simple queries to select rows from a single table, then advance to more complex queries that involve subqueries or multitable joins. You will learn how to use functions and expressions in SQL statements and how to format the query results. In addition, you will learn how to perform insert, update, and delete operations, and how to select rows that contain large object and other non-standard data types.

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Objetivos

- Describe the basic structure of an SQL SELECT statement
- List and describe the Informix data types
- Explain the relationship of tables in the Informix demo database
- Select rows from a single table
- Use various SELECT statement clauses
- Obtain query results using aggregate functions
- Use built-in functions in the SELECT list and ORDER BY clause
- Write queries that use simple and complex joins between tables
- Write queries that use subqueries and temporary tables
- Perform insert, update, and delete operations in a query
- Control the format of query input and output using functions and operators
- Write queries that involve large objects and complex data types
- Use SET EXPLAIN to determine how a query is optimized

Público

This basic course is for basic database users and applications developers.

Requisitos Previos

It is preferred that you have:

- Basic knowledge of the UNIX **or** Linux operating system

Programa

Introduction to Structured Query Language

- Define the term Structured Query Language (SQL)
- Identify the different categories of SQL statements
- Identify the topics covered in this course

Informix Data Types

- List and describe the Informix data types

The Demonstration Database

- Describe the major concepts of relational databases
- Identify the tables in the stores_demo database
- Identify the relationships between these tables
- Install a copy of this database
- Use DB-Access to edit and run queries

Single Table SELECT Statements

- Write a single table SELECT statement
- List the optional clauses of a SELECT statement
- Use the WHERE clause
- Use the ORDER BY clause

SELECT Clauses and Aggregates

- Recognize arithmetic expressions
- Use aggregate functions in a SELECT statement
- Use the GROUP BY clause
- Use the HAVING clause
- Put SELECT data into a temporary table with the INTO TEMP clause
- Use NULL values in expressions

Built-In Functions

- Use date and time functions
- Convert DATE or DATETIME values to character strings
- Perform case-insensitive searches
- Use string manipulation functions
- Use the concatenation operator
- Remove leading and trailing characters
- Use numeric functions
- Write conditional expressions

Joining Tables in a SELECT Statement

- Access data from two or more tables with SELECT
- Avoid a Cartesian product
- Assign aliases to table names

Complex Joins

- Describe the differences between inner and outer joins
- Describe the different types of outer joins
- Use various types of complex joins in queries
- Describe the purpose of a self join and use in a query
- Use the UNION operator in an SQL statement

Subqueries

- Write queries that use subqueries
- Write a SELECT statement that uses nested subqueries
- Explain the purpose of a correlated subquery

Temporary Tables

- Write queries that explicitly create temporary tables
- List reasons why temporary tables are needed in queries
- Use the WITH NO LOG option when creating temporary tables

INSERT, UPDATE, and DELETE Statements

- Write an INSERT statement to enter data into a table
- Write an UPDATE statement to change data in a table
- Write a DELETE statement to remove data from a table
- Write a LOAD statement to add rows into a table from a file
- Write an UNLOAD statement to create a file that contains data from a database

Other SQL Features

- Use synonyms and views in place of tables in a query
- Access remote tables in a query
- Write queries to select and insert simple and smart large objects
- Explain how to query on tables that contain user-defined data types
- Explain how to use user-defined routines in a query

SQL Optimization

- Explain the purpose of the Informix optimizer
- Define the choices of access paths available to the optimizer
- Describe the different types of indexes and their importance to query optimization
- Use SET EXPLAIN to obtain information about how a query is optimized
- Identify the choices made by the optimizer based on information written to the sqexplain.out file
- Use optimizer directives to influence the optimization path for a query

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.