Agenda

Oracle SQL & SQR for PeopleSoft

2-Day Course

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Oracle SQL & SQR for PeopleSoft

The two-day course provides a practical, hands-on introduction to SQL and SQR development in a PeopleSoft environment. Participants will learn to retrieve and manipulate data using robust SQL techniques, including SELECT statements, joins, subqueries, and group functions. The course also explores performance tuning fundamentals to enhance SQL efficiency.

The second half, attendees will dive into SQR programming—understanding program structure, working with variables, generating formatted output, using SQC libraries, and setting up process definitions. Real-world examples and debugging tips will prepare learners to build and troubleshoot PeopleSoft reports with confidence.

Ideal for developers, analysts, and technical support staff seeking to deepen their PeopleSoft data reporting and programming expertise.

Retrieving Data using the SQL SELECT Statement

- Capabilities of the SELECT statement
- Arithmetic expressions and NULL values in the SELECT statement
- Column aliases. Use of the concatenation operator, literal character strings, alternate quote operator, and the DISTINCT keyword
- Use of the DESCRIBE, DEFINE, VERIFY
- Limiting the Rows and Rules of precedence for operators in an expression
- Substitution Variables

Reporting Aggregated Data Using the Group Functions

- Group Functions
- Creating Groups of Data
- Restricting Group Results

Joins and Subqueries

- Typical PeopleSoft Joins ("Old Style" Joins)
- ANSI Joins: Natural join, Self-join, Non equijoins, OUTER join
- Converting between old style and ANSI joins
- Introduction to Subqueries

Using Single-Row Functions to Customize Output

- Manipulate strings with character function in the SELECT and WHERE clauses
- Manipulate numbers with the ROUND, TRUNC and MOD functions
- Perform arithmetic with date data
- Manipulate dates with the date functions

Using the SET Operators

- Set Operators
- UNION and UNION ALL operator
- MINUS operator
- Matching the SELECT statements
- Using ORDER BY clause in set operations

Oracle SQL Tuning Basics

- Understanding Indexes
- Common errors which impact performance
- Tips and Tricks -- using 'IN' vs. '=', etc.
- Working with large datasets

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Oracle SQL & SQR for PeopleSoft

SQR Program File

- How SQR views a page
- How to read a typical PeopleSoft structured SQR
- Sections of an SQR program
- Procedures within an SQR program

Print Function

- How to place data on the page
- How to use Edit Masks
- On-Break processing

SQR Variables and Processing

- Internal and User-defined variables
- SQR statements for working with variables
- Procedures
- Conditional logic

SQC Files

- SQCs in SETUP
- SQCs in HEADINGS
- Procedures in SQCs

SQR Process Definitions

- Creating a process definition without user input
- Creating a process definition with user input
- Modifying SQR program to accept user input

Debugging and Tuning

- Debugging techniques
- Typical SQR mistakes

Recommended Courses

- BI Publisher
- PeopleSoft Insights with OpenSearch Technologies
- Query Advanced