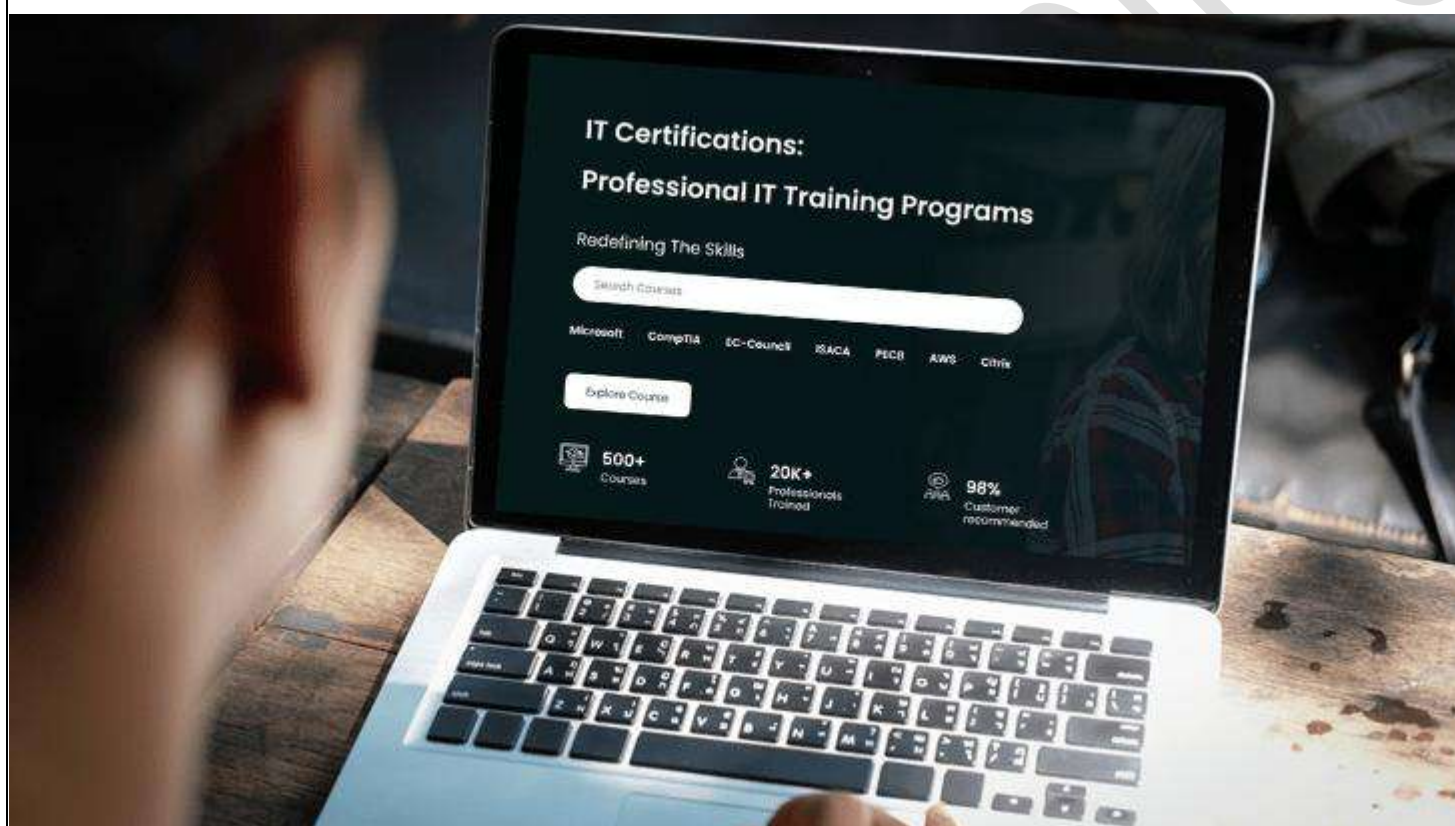




Redefining The Skills



DP-080: QUERYING DATA WITH MICROSOFT TRANSACT-SQL TRAINING

Duration: 2 Days

Course Description

DP-080: Querying data with Microsoft Transact SQL Training covers SQL topics like Microsoft SQL Server and Azure SQL Database. These include both querying and modifying data present in relational database systems that are hosted by Microsoft SQL server-based data systems.

This course is a perfect fit for anyone who is looking to get a hold of writing basic SQL or Transact-SQL queries. Learning in this certification includes using SQL server query tools, modifying data using commands like INSERT, MERGE, and UPDATE, and using built-in functions for returned data values.

Moreover, this certificate also includes understanding data management with transacting SQL professionals while learning how to find query data with modern and advanced Transact-SQL components.

This training is designed based on the objectives of the course variant DP-080T00-A.

Who should attend this course?

- Any professional willing to gain experience in writing basic SQL or Transact-SQL queries.
- Given below are professionals that can use Querying Data with Microsoft Transact – SQL Training to upskill their current positions:
 - Data Analysts
 - Data Engineer
 - Data Scientist
 - Database Administrator
 - Database developer
 - Solution Architects
 - Technology Managers
 - Students

What you will learn

- Usage SQL Server query tools
- Learning sort and filter selected data
- Learning built-in functions to returned data values
- Create groups of data and aggregate the results
- Write SELECT statements to retrieve columns from one or more tables
- Modify data with Transact-SQL using INSERT, UPDATE, DELETE and MERGE

Prerequisites

- There are no prerequisites or certification requirements before opting for this course.
- Familiarity with working on tables and spreadsheets.
- Working with languages like SQL, Python or Java is beneficial
- This course is built to explore and learn complicated querying techniques.
- Enthusiasm to learn and explore through hands-on experience.

Curriculum

Module 1: Introduction to Transact-SQL

This module provides an introduction to relational databases, the SQL language and Transact-SQL. You'll learn what kinds of statements make up the SQL language and look at the SELECT statement in detail.

After completing this module, you'll be able to:

- Understand what SQL is for
- Identify database objects in schemas
- Identify SQL statement types
- Use the SELECT statement
- Work with data types
- Handle NULLs

Module 2: Sort and filter results in T-SQL

Learn how to sort and filter query results

After completing this module, you will be able to:

- Sort your results
- Limit the sorted results
- Return paged results
- Remove duplicates
- Filter data with predicates

Module 3: Combine multiple tables with JOINS in T-SQL

Explore T-SQL queries accessing data from multiple tables with various kinds of JOIN operations.

After completing this module, you will be able to:

- Describe join concepts and syntax
- Write queries that use inner and outer joins
- Write queries that use cross joins
- Write queries that use self joins

Module 4: Write Subqueries in T-SQL

Learn how to use subqueries to combine multiple SELECT statements and compose nested queries.

After completing this module, you will be able to:

- Understand what subqueries are
- Use scalar or multi-valued subqueries
- Use self-contained or correlated subqueries

Module 5: Use built-in functions and GROUP BY in Transact-SQL

Learn how to use functions in Transact-SQL, and how to group aggregated results.

After completing this module, you will be able to:

- Categorize built-in functions
- Use scalar functions
- Use ranking and rowset functions
- Use aggregate functions
- Summarize data with GROUP BY
- Filter groups with HAVING

Module 6: Modify data with T-SQL

Learn how to use Transact-SQL to insert, update, and delete data in a database.

After completing this module, you will be able to:

- Insert data into a table
- Generate automatic values
- Update data in a table
- Delete data from a table
- Merge data based on multiple tables

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