

ONE-DAY COURSE

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## **ACQUIRED SKILLS**

- Describe Snowpark's client-side and server-side capabilities.
- Connect to Snowflake using a Snowpark Session object.
- Query data sources as Snowpark DataFrame objects.
- Perform basic and advanced data transformations using a library of DataFrame functions.
- Action DataFrame objects to process results client-side or persist results in Snowflake.
- Create shareable and reusable code as User-Defined Functions (UDFs).
- Encapsulate a sequence of operations or conditional logic into a single, reusable object with Stored Procedures.

#### WHO SHOULD ATTEND

- Data Engineers
- Data Scientists
- Data Application Developers
- Database Architects
- Database Administrators
- Data Analysts with programming experience

#### PREREQUISITES

- Snowflake Hands-on Essentials: "Data Warehousing Workshop" or equivalent knowledge required.
- Previous data warehouse knowledge is assumed.
- Basic proficiency writing code in one of the following languages: Java, Scala, or Python.

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- Getting Started with the Snowpark API
- Setting Up Snowflake Connections and Exploring Multiple Authentication Methods
- Discovering What DataFrames are in Snowpark and How They Run on Snowflake's Elastic Compute Engine

### **Creating Snowpark DataFrames**

- Exploring Multiple Methods to Create a DataFrame Object
- Key Concepts of Programming in Snowpark DataFrames Including Schemas, Data Types, and Lazy Evaluation
- Constructing Basic Create Statements

## **Transforming DataFrames: Basic and Advanced Operations**

- Applying Column Operations for Filtering and Transforming Data
- Using Scalar Functions and Operators
- Sorting and Limiting Results
- Performing Aggregate and Set-based Operations on DataFrames
- Transforming Semi-structured Data in DataFrames

# Actions on DataFrames: Evaluating and Persisting

- Identifying the Differences Between and How to Use DataFrame Actions and Transformations
- Evaluating DataFrame Transformations with Actions that Return Data to the Client-side
- Publishing Logical DataFrame Operations as Views
- Creating and Appending Snowflake Tables with DataFrame Results

	Creating and Registering User-Defined Functions (UDFs)										
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