SolarWinds DPA Advanced Tuning

Duration: 3 Days **Course Code: SOLWDPA** **Delivery Method: Company Event**

Overview:

Our SolarWinds Database Performance Analyzer (DPA) Advanced Tuning class is designed for database professionals seeking to enhance their skills in SQL Server performance optimization. This 3-day hands-on class focuses on identifying and resolving SQL Server bottlenecks using SolarWinds DPA. Participants will gain practical experience in SQL Server optimization techniques and learn how to effectively identify and quantify physical resource limitations.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

- DBAs
- Observability Administrators
- SQL Developers
- Production Support Engineers

Objectives:

- By the end of this class, participants will be able to:
- Use DPA to identify and quantify hardware and software bottlenecks, both current and historical.
- Describe SQL Server query processing, including optimization and index selection.
- Understand wait type analysis.
- Estimate query performance and identify implementation issues.
- Find and fix problematic statements in queries and stored procedures.

Prerequisites:

- Basic knowledge of SQL syntax (SELECT, INSERT, UPDATE, DELETE)
- At least one year of hands-on experience with T-SQL (not mandatory)

Content:

Day 1

Module

DPA

Morning

- Introductions and Class Expectations
- DPA Concepts
- Fundamentals of Query Processing
- Query Troubleshooting
- Optimizing Joins with DPA
- Using Subqueries with DPA
- Physical Design Concepts
- Stored Procedures
- DPA Installation
- Wait Time Analysis
- Current Situation Analysis
- Identifying Problems That Occurred

Afternoon

- SQL Statement Processing
- Top Impacting Queries (DPA Trends)
- Index Tuning with DPA
- Session Configuration
- Dynamic Queries
- Common Table Expression (CTE)
- Case Studies
- Performance Alerts
- Correlating DPA Resources with HCO/SAM
- SQL Sentry Compare ; Contrast

Day 2

Module

DPA

Morning

- Introductions and Class Expectations
- DPA Concepts
- Fundamentals of Query Processing
- Query Troubleshooting
- Optimizing Joins with DPA
- Using Subqueries with DPA
- Physical Design Concepts
- Stored Procedures
- DPA Installation
- Wait Time Analysis
- Current Situation Analysis
- Identifying Problems That Occurred

Afternoon

- SQL Statement Processing
- Top Impacting Queries (DPA Trends)
- Index Tuning with DPA
- Session Configuration
- Dynamic Queries
- Common Table Expression (CTE)
- Case Studies
- Performance Alerts
- Correlating DPA Resources with HCO/SAM
- SQL Sentry Compare ; Contrast

Day 3

Modules: DPA, HCO, SAM, SQL Sentry

Morning

- Introductions and Class Expectations
- DPA Concepts
- Fundamentals of Query Processing
- Query Troubleshooting
- Optimizing Joins with DPA
- Using Subqueries with DPA
- Physical Design Concepts
- Stored Procedures
- DPA Installation
- Wait Time Analysis
- Current Situation Analysis
- Identifying Problems That Occurred

Afternoon

- SQL Statement Processing
- Top Impacting Queries (DPA Trends)
- Index Tuning with DPA
- Session Configuration
- Dynamic Queries
- Common Table Expression (CTE)
- Case Studies
- Performance Alerts
- Correlating DPA Resources with HCO/SAM
- SQL Sentry Compare ; Contrast

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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