BMC AMI DATA

BMC AMI SQL Assurance for Db2® 13.x: Fundamentals Using (WBT)

> bmc

Course Code: ADDB-SQAU-F131

Modality	Duration	Applicable Versions	Target Audience
Web-based Training (WBT)	2 Hours	BMC AMI SQL Assurance for DB2® 12.1 and 13.1	• Database Administrators • Developers

Course Overview

BMC AMI SQL Assurance for Db2® product is a component of the BMC AMI SQL Performance for Db2® solution. With the help of BMC AMI SQL Assurance for Db2, you can validate application SQL run against Db2 for z/OS®. This product can drive the analysis of application SQL statements against customer and BMC-defined SQL programming standards and combines Jenkins with some BMC automated SQL Performance products.

This course will help you understand how to run BMC AMI SQL Assurance for Db2 in the Jenkins automation server as well as in standalone mode via batch jobs. Additionally, you will be able to analyze SQL Assurance reports, ignore violations, and manage violations. With the Jenkins integration, you will be able to build a SQL Assurance project pipeline to evaluate static and/or dynamic SQL statements for SQL rule violations across the z/OS environment via batch jobs. Furthermore, you can review the violation details received from the pipeline execution or batch jobs run in stand-alone mode via the BMC AMI Command Center for Db2 product, which is a web based graphical user interface.

Learning Objectives

- Describe the architecture and capabilities of BMC AMI SQL Assurance for Db2
- Explain how to use SQL Assurance as a part of a pipeline in Jenkins
- Discuss the details of building a project in Jenkins
- Review console output for a Jenkins build
- Describe the configuration parameters for static and dynamic SQL job cards and analyzing statement cache
- Describe how to run a static or dynamic SQL analysis job in stand-alone mode
- Explain how to view and analyze the SQL Assurance report in stand-alone mode
- List the steps to navigate to the SQL Assurance view in BMC AMI Command Center for Db2
- Explain how to view and filter expert rule violations for a Db2 subsystem
- List the steps to navigate to manage violations to ignore rule view in BMC AMI Command Center for Db2
- Add, edit, delete, copy, and deploy violations to ignore rules

For more information about BMC Education Services, visit **www.bmc.com/education**.

Course Modules

Module 1: Using BMC AMI SQL Assurance for Db2 on Jenkins

- Getting Started with BMC AMI SQL Assurance for Db2
  - Why SQL Assurance Is Important?
  - BMC AMI SQL Assurance for Db2: Conceptual Architecture
  - Reviewing the Capabilities of BMC AMI SQL Assurance for Db2
  - Workflow of Using BMC AMI SQL Assurance for Db2 through Jenkins
  - Step 1: Preparing for a Project
- Creating and Configuring a Project
  - Step 2: Creating a Project
  - Step 3(a): Configuring Parameters in a Project
  - Step 3(b): Configuring Build Steps in a Project
  - Adding Build Steps for Static and Dynamic SQL Analysis
  - Configuring the Sample Project Provided by BMC
  - Configuring Values to Analyze Static SQL
  - Package Object List – Configuring Values to Analyze Dynamic SQL – Where Clause
- Building a Project and Reviewing Output
  - Using BMC AMI SQL Assurance as a Part of a Pipeline
  - Step 4: Building a Project
  - Step 5: Reviewing Console Output for a Build
  - Reviewing Violations from BMC AMI Command Center for Db2
  - Demonstration: Building a SQL Assurance Pipeline on Jenkins

Module 2: Using Automation API Provision and Usage Services

- Configuring Static and Dynamic SQL JCL Jobs
  - Configuring Parameters for Static and Dynamic SQL JCL Jobs
  - Analyzing Existing Static SQL Defined on Your Subsystem
  - Analyzing SQL from the Dynamic Statement Cache
- Viewing SQL Assurance Report
  - Running SQL Assurance Job in Standalone Mode
  - Navigating to SQL Assurance Report in Stand-alone Mode
  - Analyzing SQL Assurance Report (AS$RSLT)
- Using SQL Assurance View
  - BMC AMI Command Center for Db2: SQL Assurance View Capabilities
  - Navigating to SQL Assurance View of BMC AMI Command Center for Db2e
  - Viewing SQL Assurance Violation Details
  - Viewing Properties of Expert Rules Violations
  - Filtering Expert Rules Violations
  - Adding a VTI Rule for a Specific Violation
- Managing SQL Assurance VTI Rules
  - Adding Manage Violations to Ignore Rules
  - Adding a VTI Rule
  - Editing a VTI Rule
  - Deleting a VTI Rule
  - Copying a VTI Rule
  - Deploying SQL Assurance VTI Rules
  - Demonstration: Running SQL Assurance in Stand-alone mode

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