

Expensive Statements Trace Investigation

Objective

Determine whether SAP HANA was collecting expensive SQL statement information for performance analysis.

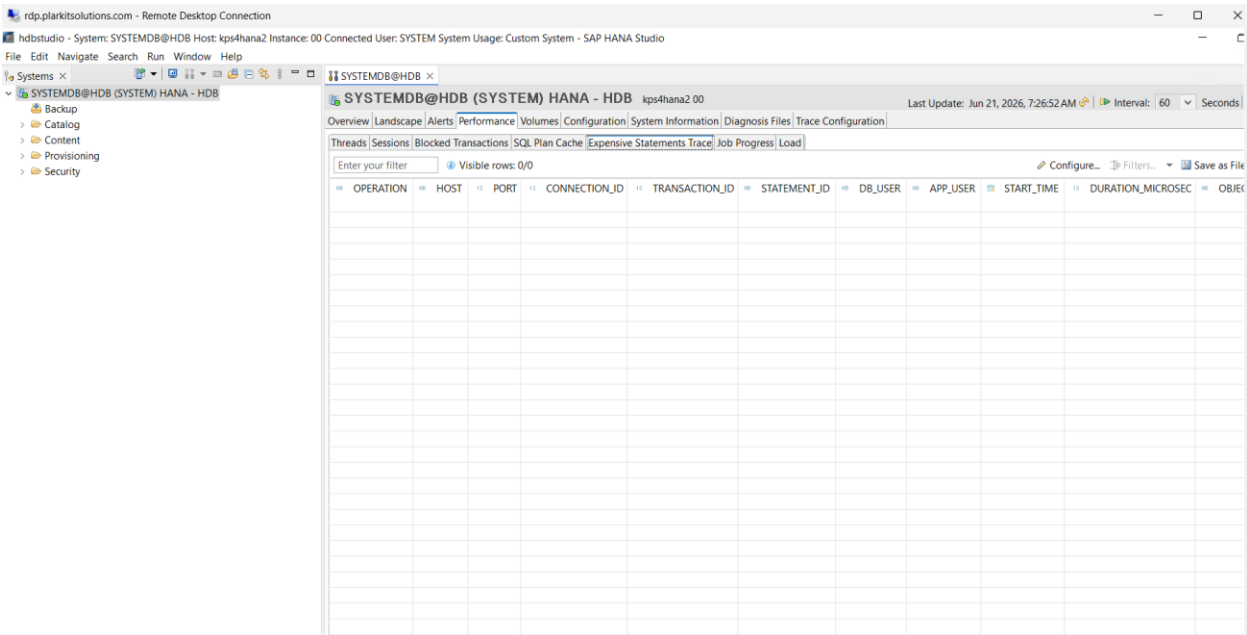
Operational Scenario

During a routine performance monitoring review, the Expensive Statements Trace was examined to verify that SQL statements exceeding configured execution thresholds were being captured for troubleshooting and performance analysis.

Investigation

The Expensive Statements Trace was reviewed within SAP HANA Studio.

Screenshot 1 – Initial Performance Monitoring Review



Initial observation:

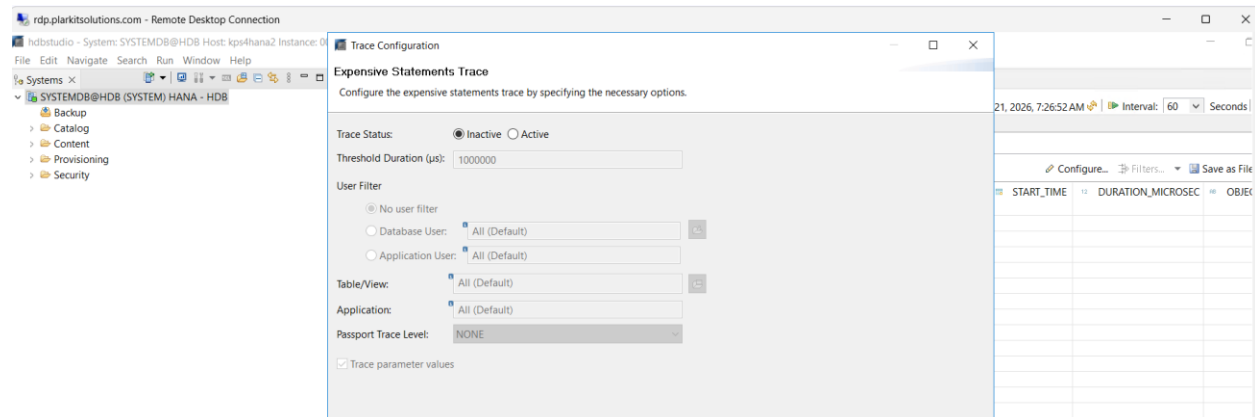
No expensive statement records were available for review.

The monitoring screen displayed:

Visible Rows: 0/0

Because no statement data was available, further investigation was required.

Screenshot 2 – Root Cause Investigation – Trace Configuration



The trace configuration was reviewed to determine why no expensive statement information was available.

The review focused on:

- Trace Status
- Threshold Duration
- Monitoring Configuration

Analysis

The initial review identified that no expensive statement records had been collected.

A follow-up investigation of the trace configuration determined that the Expensive Statements Trace was configured as Inactive.

Since statement collection depends on an active trace, no expensive statement information was available for analysis.

Findings

The Expensive Statements Trace was found to be configured as Inactive during the review period. As a result, SAP HANA was not collecting SQL statements exceeding configured performance thresholds, and no expensive statement data was available for analysis. The absence of monitoring data was determined to be a configuration-related condition rather than a database performance issue or system malfunction.

Business Impact

Expensive statement monitoring supports performance investigations by identifying resource-intensive SQL activity.

When the trace is disabled, performance troubleshooting may be limited because workload execution data is unavailable.

Lessons Learned

- Performance monitoring data should be validated before beginning detailed analysis.
- Missing monitoring data often requires configuration review.
- Effective troubleshooting involves identifying root causes rather than stopping at initial observations.

Skills Demonstrated

- SAP HANA Administration
- Performance Monitoring
- Root Cause Investigation
- Monitoring Configuration Review
- SAP Basis Operations