Database Performance Analysis

Offer help to customers and support engineers analyze Database performance, including all the database platform, Oracle, MSSQL, HANA, IBM, MAXDB etc.

Table of Contents

- Table of Contents
  - DBA Cockpit
  - Related SAP Notes & Help Portal
- ORACLE
  - Related SAP Notes/KBAs
  - Wiki Page
- DB2 UDB for LINUX, UNIX and Windows
  - Related SAP Notes/KBAs
  - Wiki Page & Support Portal
- MAXDB
  - Related SAP Notes
  - Wiki Page & Support Portal
- SAP Sybase ASE
  - Related SAP Notes
  - Wiki Page & Support Portal
- SAP HANA
  - Related SAP Notes/KBAs
  - Wiki Page & Support Portal
- SQL Server
  - Related SAP Notes
  - Wiki Page & Support Portal

DBA Cockpit

The DBA Cockpit is a platform-independent tool that you can use to monitor and administer your database. It provides a graphical user interface (GUI) for all actions and covers all aspects of handling a database system landscape. You can run the DBA Cockpit locally on an SAP NetWeaver-based system by calling the DBACOCKPIT transaction.

- Universal to all Databases
- Analysis depends on the Database Version and Release
- Database Configuration and layout can be checked
- SQL Cache can be analysed for most expensive SQL
  A HTTP Connection is necessary to access the Web-Dynpro DBACOCKPIT, for some customers this is the only option to access the dbacockpit

Related SAP Notes & Help Portal

2125429 - Performance Troubleshooting Guide - DBACockpit [VIDEO]
To know more, please check in DBA Cockpit Help Portal.

The entry screen of the DBA Cockpit is divided into following areas:

- Application toolbar
- System landscape toolbar
- Central system data
- Navigation frame
- Action area
- Action message window
- Framework message window

ORACLE

SAP HANA
Related SAP Notes/KBAs

- 1171650 - Automated Oracle DB parameter check
- 1431798 - Oracle 11.2.0: Database Parameter Settings
- 1888485 - Database Parameter for 12.1.0.2
- 618868 - FAQ: Oracle performance

Wiki Page

Oracle
Tuning Oracle

DB2 UDB for LINUX, UNIX and Windows

Related SAP Notes/KBAs

- 899322 - DB6: DB2 9.1 Standard Parameter Settings
- 1086130 - DB6: DB2 9.5 Standard Parameter Settings
- 1329179 - DB6: DB2 9.7 Standard Parameter Settings
- 1692571 - DB6: DB2 10.1 Standard Parameter Settings
- 1851832 - DB6: DB2 10.5 Standard Parameter Settings
- 2303771 - DB6: DB2 11.1 Standard Parameter Settings

WIKI Page&Support Portal

SAP on DB2 for Linux, UNIX, and Windows
DB2 Performance
Physical read/write Analysis

MAXDB

Related SAP Notes

- 725489 - SAP MaxDB performance analysis tools
- 819641 - FAQ: SAP MaxDB performance
- 819324 - FAQ: SAP MaxDB SQL optimization
- 2056680 - SAP MaxDB runtime analysis: Restore data backup
- 1357553 - MaxDB / liveCache Performance on HP-UX

WIKI Page&Support Portal

SAP HANA and In-Memory Computing Wiki Page
SAP HANA Troubleshooting and Performance Analysis Guide
Statement Performance Analysis
SAP HANA Cockpit Help Portal Administration and Monitoring Functions

Click here to expand the Performance Monitoring and Analysis
In this section:
Monitoring and Analyzing with the Performance Monitor
Analyzing the performance of the SAP HANA database over time can help you pinpoint bottlenecks, identify patterns, and forecast requirements.

Monitoring and Analyzing Threads
Analyzing the threads running in the SAP HANA database can be helpful when analyzing the current system load.

Monitoring and Analyzing Expensive Statements
Use Expensive Statements to analyze individual SQL queries whose execution time was above a configured threshold.

Monitoring and Analyzing Statements with SQL Plan Cache
Use the SQL plan cache to get an insight into the workload of the SAP HANA database as it lists all statements currently cached in the SAP HANA database.

Monitoring and Analyzing Sessions
Use the Sessions tile to monitor all sessions in your landscape.

Monitoring and Analyzing with the Statements Monitor
Analyzing the current most critical statements running in the SAP HANA database can help you identify the root cause of poor performance, CPU bottlenecks, or out-of-memory situations. Enabling memory tracking allows you to monitor the amount of memory used by single statement executions.

Managing Statement Hints
Use the Manage statement hints to add statement hints to an SQL statement without modifying the actual statement in the application.

**Analyzing Statement Performance**
Analyzing statement performance helps you understand performance issues of a query execution and other query execution aspects of the SAP HANA database.

**Related SAP Notes**

- 1766238 - FAQ: Query Optimization - in process
- 1764611 - FAQ: SAP Sybase ASE Update Statistics - in process
- 2162183 - Frequently asked questions on SAP ASE for Business Suite
- 2371160 - FAQ: BW archiving to SAP IQ performance considerations
- 1642301 - Collecting diagnostic data for Sybase ASE support
- 2087323 - SYB: Important solved problems for SAP Applications running on SAP ASE

**SQL Server**

**Related SAP Notes**

- 521750 - FAQ: SQL Server 2000 I/O performance
- 987961 - FAQ: SQL Server I/O performance
- 1152848 - FAQ: SQL Server Wait Events
- 555223 - FAQ: Microsoft SQL Server in NetWeaver based systems