SAP Note

SAP **3105683 - A Query Fails With an Error "distributed SQL error: [18] A received argument has an invalid value"**

Version 5 **Validity:** 10.11.2022 - active **Language** English

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Header Data

Released On	10.11.2022 02:41:04 **By** Jinsol Kim (I533393)
Release Status	Released for Customer
Component	HAN-DB SAP HANA Database Display ACRF Content
Priority	Correction with high priority
Responsible	Jinsol Kim (I533393)
Processor	Jinsol Kim (I533393)
Category	Program error
Relevant for Translation	No

Symptom

A query accessing monitoring views such as M_TABLE_PARTITIONS, SYS.M_CS_COLUMNS_PERSISTENCE, or M_CS_MVCC fails with error "distributed SQL error: [18] A received argument has an invalid value".

The types of object inconsistencies that cause this error *include but are not limited to* "Topology Garbages".

For example, if this error is due to existence of garbage topologies in your system, topology check will return a result as follows:

CALL CHECK_CATALOG('check_topology', null, null, null);

=>

SCHEMA;NAME;OBJECT_TYPE;ERROR_CODE;ERROR_MESSAGE
<SCHEMA_NAME>;<OBJECT_NAME>;<OBJECT_TYPE_ID>;**2,571;Garbage topology information** - <SCHEMA_NAME>:
<OBJECT_NAME>

[...]

Other Terms

Object Inconsistency, Topology Garbage

Reason and Prerequisites

Issue number 272496

Reason:

Due to a programming error in SAP HANA, some monitoring views do not skip the processing of inconsistent tables or table partitions.

Affected Releases:

- SAP HANA 2:
  - Revisions of SPS00 - SPS04
  - Revisions <= 059.00 (SPS05)

Prerequisites:

- A query accessing a monitoring view has been executed **AND**
- Inconsistent database objects are referenced by monitoring views such as M_TABLE_PARTITIONS, SYS.M_CS_COLUMNS_PERSISTENCE, or M_CS_MVCC

Solution

Apply one of the following SAP HANA Revisions:

- SAP HANA 2:
  - Revisions >= 059.01 (SPS05)
  - or higher

- or higher

Please note that upgrading the system to one of solution revisions will not resolve inconsistency in metadata of problematic tables. It will just make currently afffected monitoring views executable by referencing consistent objects only.

Workaround:

- Specify tables of interest by applying a filter so that the query execution does not process references to inconsistent objects

  SELECT * FROM <MONITORING_VIEW> WHERE **SCHEMA_NAME = '<SCHEMA_NAME>'** AND **TABLE_NAME = '<TABLE_NAME>';**

  - For example, SELECT * FROM M_TABLE_PARTITIONS WHERE SCHEMA_NAME = 'SCHEMA1' AND TABLE_NAME = 'TABLE1'; -- Please make sure that specified tables do not contain inconsisteny

- Remove inconsistencies

  If the type of problematic inconsisteny is garbage topology as described in Symptom, please refer to SAP Note 2839048 and check if its solution or workaround is applicable.

Validity

Software Component	From Rel.	To Rel.	And Subsequent	
HDB	2.00	2.00		

Support Packages & Patches

Support Package Patches

Software Component	Support Package	Patch Level
SAP HANA DATABASE 2.0	SP059	000001

References

This document refers to:

SAP Notes

3080996	HAN-DB	Accessing Monitoring View M_CS_MVCC Terminates with "A received argument has an invalid value" due to Inconsistencies in Topology
2945435	HAN-DB	Known issues detected in SAP HANA 2 SPS05
2839048	HAN-LM-PLT	Could not Execute call 'REORG_GENERATE(2,'NO_SPLIT')' - error during table redistribution execution
2784704	HAN-DB	Known issues detected in SAP HANA 2 SPS04
2628684	HAN-DB	Known issues detected in SAP HANA 2 SPS03
2525424	HAN-DB	Known issues detected in SAP HANA 2 SPS02
2462139	HAN-DB	Known issues detected in SAP HANA 2 SPS01
2432112	HAN-DB	Known issues detected in SAP HANA 2 SPS00
2380229	HAN-DB	SAP HANA Platform 2.0 - Central Note

This document is referenced by:

Customer Incident (11)

Number	Year	Title	Status	Processor	Customer Number	Customer Name
0000004134	2023	PCS	Distributed SQL error	A received argument has an inv.	Restricted	Alex Kler	0000032808	Deutsche Bank AG
0000125507		PREP_CONFIGURATION/HDB_CHK_NSE_OLDPERSISTENCE severe error	Restricted	Bhupinder Sasan	0000666284	Ypsomed AG
0000208074	2022	Severe error(s) occurred in phase PREP_CONFIGURATION/HDB_CHK	Restricted	Hakan Haslaman	0000011133	BMW AG

| 0000269214 | 2023 | ER0環境でDatabase_error 3584発生 | Restricted | | 0001551993 | INTAGE TECHNOSPHERE Inc. |
| 0000421545 more... | 2022 | Unable to View SYS.M_TABLE_PARTITIONS | Restricted | Bhupinder Sasan | 0000032808 | Deutsche Bank AG |

SAP Notes (1)

3120845 HAN-DB SAP HANA 2 SPS05 Revision 059.01

ServiceNow Case (12)

Number	Year	Text	Status	Processor	Customer Number	Customer
0000682560	2022	Not able to run HANA Mini checks	Closed	Ercin Nurol (D055131)		
0000184554		Inconsistency in topology.	Closed	Yichen Chen (I061888)		
0000004134	2023	PCS	Distributed SQL error	A received argument has an inv	Closed	Alexander Kler (I542430)		
0000567808	2022	Severe error(s) occurred in phase PREP_CONFIGURATION/HDB_CHK	Closed	Renato Metal (I505934)		
0000421545		Unable to View SYS.M_TABLE_PARTITIONS	Closed	Bhupinder Sasan (I819414)	0000032808	Deutsche Bank AG (0000032808)

more...