

SAP Note

**3105628 - "feature not supported: CONTAINS predicates within unsupported contexts" Raised for Valid Fulltext Search Query****Version** 8 **Validity:** 13.09.2023
- active**Language** English

Header Data

Released On	13.09.2023 08:25:57	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 fulltext search query, which doesn't have any unsupported logic defined in its data model, fails with an error "feature not supported: CONTAINS predicates within unsupported contexts (OR predicates, stacked column searches, ...)".

[Reproducible Scenario]

1. Create a test schema

```
CREATE SCHEMA FULLTEXT_TEST;
```

2. Set the test schema as a default schema

```
SET SCHEMA FULLTEXT_TEST;
```

3. Create a test table

```
CREATE COLUMN TABLE T (CONTENT TEXT FAST PREPROCESS OFF);
```

4. Insert data into the test table

```
INSERT INTO T VALUES ('example');
INSERT INTO T VALUES ('exomple');
```

5. Run a fulltext search query on the test table

```
SELECT SCORE(), CONTENT FROM T WHERE 1<>1 AND CONTAINS(CONTENT,
'example',Fuzzy(0.8)) WITH HINT (NO_CS_FILTER);
```

Returning 0 record is expected, but the query fails with the below error :

=> Could not execute 'SELECT SCORE(), CONTENT FROM T WHERE 1<>1 AND ...' in 107 ms 73 µs .

SAP DBTech JDBC: [7]: feature not supported: CONTAINS predicates within unsupported contexts (OR predicates, stacked column searches, ...)

Please note that an expression that evaluates to a constant boolean value 'false' (for example, 1<>1) is called 'Constant False'. Another example of a constant false is expression **N'CDS_Access_Control_CDSEntity' = N'DENY'** which is added in WHERE clause by [CDS Access Control](#). Such a constant false condition is at times used to return no data intentionally in order for an application to block an unauthorized access to a specific object (in this case, CDS view '**CDSEntity**').

Other Terms

Fulltext Search, CDS Access Control, Fuzzy Search

Reason and Prerequisites

Issue number 281256

Reason:

Due to a programming error in SAP HANA, HANA ESX Engine, which is used in processing a constant-false expression, also executes SCORE() and CONTAINS() that have to be handled in HANA Column Engine and are not supported in ESX Engine.

Affected Releases:

- SAP HANA 2:
 - Revisions of SPS02 - SPS04
 - Revisions <= 059.01 (SPS05)
 - Revision = 060.00 (SPS06)

Prerequisites:

- A query includes function **SCORE()** and predicate **CONTAINS()** **AND**
- A constant-false expression is used as a predicate in WHERE clause with **CONTAINS()** **AND**
- A constant-false expression in WHERE clause guarantees that an empty result set is returned

[Example]

```
SELECT CONTENT, SCORE() FROM T WHERE 1=2 AND CONTAINS(CONTENT,
'example',Fuzzy(0.8)); -- empty result set guaranteed by constant false '1=2'
SELECT CONTENT, SCORE() FROM T WHERE 1=2 OR CONTAINS(CONTENT,
'example',Fuzzy(0.8)); -- empty result set not guaranteed by constant false '1=2'
```

Solution

Apply one of the following SAP HANA Revisions:

- SAP HANA 2:
 - Revisions >= 059.02 (SPS05)
 - Revisions >= 061.00 (SPS06)
 - or higher

- or higher

Workaround:

- There is no workaround available

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	000002
	SP061	000000

References

This document refers to:

SAP Notes

2945435	HAN-DB	Known issues detected in SAP HANA 2 SPS05
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 (20)

Number	Year	Title	Status	Processor	Customer Number	Customer Name
0000115871	2023	Database_error_7_with_PRE_access_to_table_FAA_M_AANLA	Restricted		0000454718	Yara International ASA
0000118867		Database_error_7_with_PRE_access_to_table	Restricted		0000032567	LEONHARD KURZ Stiftung &

		FAA_M_AANLA				Co. KG
0000193822	2022	Database_error_7_with_PRE_access_to_table_SHSM_V_PRMP	Restricted	Rahul Ramesh	0000180021	Ministry of Home Affairs
0000214193		wrong_query_to_database.when_field_House_bank.not_exist_char.	Restricted	Olaf Wellm	0001611527	CCC.EU SP. Z O.O.
0000272370		HANA_error_in_CDS_View_SHSM_V_PRMP_after_upgrade_to_S/4.	Restricted	Li-fang Li	0000037700	Universität Zürich

[more...](#)**SAP Knowledge Base Articles (2)**

- 3239183 HAN-DB-ENG [Database error 7 with PRE access to table SHSM_V_PRMP when running CAT2 transaction](#)
- 2399990 HAN-DB [How-To: Analyzing ABAP Short Dumps in SAP HANA Environments](#)

SAP Notes (2)

- 3140720 HAN-DB [SAP HANA 2 SPS05 Revision 059.02](#)
- 3126756 HAN-DB [SAP HANA 2 SPS06 Revision 061.00](#)

ServiceNow Case (21)

Number	Year	Text	Status	Processor	Customer Number	Customer
0000638095	2022	Datenbankfehler 7	Closed	Salome Szanto (I072459)		
0000475719		Bei Anlagensuche: Datenbankfehler 7 beim PRE-Zugriff auf Tab.	Closed	Wiebke Winkler (D025450)		
0000605072		BY4 - Database Error 7	Closed	Luis Amadeu Darui Junior (I843897)		
0000370369		Database error 7 with PRE access to table FAA_M_AANLA	Closed			
0000560322	2023	Falsche Ergebnismenge CONTAINS.	Closed	Jinsol Kim (I533393)		

[more...](#)