

## SAP Note

**3379624 - Search Query Fails on Calculation View With Error "feature not supported: converting \* to no column in CONTAINS predicate"****Version** 3    **Validity:**  
05.10.2023 - active**Language** English

## Header Data

<b>Released On</b>	05.10.2023 06:36:17 <b>By</b> Jinsol Kim (I533393)
<b>Release Status</b>	Released for Customer
<b>Component</b>	HAN-DB SAP HANA Database <a href="#">Display ACRF Content</a>
<b>Priority</b>	Recommendations / Additional Info
<b>Responsible</b>	Jinsol Kim ( I533393 )
<b>Processor</b>	Jinsol Kim ( I533393 )
<b>Category</b>	Consulting
<b>Relevant for Translation</b>	No

## Symptom

You observe that search query with "\*" flag in CONTAINS() predicate fails with an error below:

*SAP DBTech JDBC: [7]: feature not supported: converting \* to no column in CONTAINS predicate; not applicable to functions, constants, output columns of table functions, etc.*

## Other Terms

Search Query, Text Search, Fuzzy Search, Calculation View, Unfolding

## Reason and Prerequisites

**Reason:**

Unlike legacy column view types - *Attribute View* (also known as *Join View*) and *Analytic View*, searching on all columns via asterisk option ("\*") in CONTAINS() predicate is not supported with **Calculation View** regardless of whether or not it is unfolded. Thus, raising this error is an expected behavior.

It means your search query on attribute view or analytic view with "\*" flag will fail after migrating the underlying view to calculation view. In such a case, the search query needs to be modified.

**[Example Scenario]****1. Set up Attribute View**

```
CREATE COLUMN TABLE TEST_TABLE (COL1 nvarchar(10), COL2 nvarchar(10), COL3
nvarchar(10));
```

```
INSERT INTO TEST_TABLE VALUES ('Australia', 'Austria', 'Austin');
```

Now create Attribute View "ATTR\_VIEW" that simply projects all columns of TEST\_TABLE

## 2. Run search query on **Attribute View**

```
SELECT *, SCORE() FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE CONTAINS(*, 'Austria',
fuzzy) AND LENGTH(COL1) > 5;
```

=>

```
COL1;COL2;COL3;SCORE()
Australia;Austria;Austin;0.9112580418586731
```

## 3. Now migrate ATTR\_VIEW to Calculation View or re-create it as Calculation View as such.

## 4. Run search query on **Calculation View**

```
SELECT *, SCORE() FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE CONTAINS(*, 'Austria',
fuzzy) AND LENGTH(COL1) > 5;
```

=>

*SAP DBTech JDBC: [7]: feature not supported: converting \* to no column in CONTAINS predicate; not applicable to functions, constants, output columns of table functions, etc.*

# Solution

There are two options that can be considered:

## 1. Replace asterisk ("\*") in *CONTAINS()* predicate with all columns to be searched on (**preferable**)

From the example scenario above:

```
SELECT *, SCORE() FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE CONTAINS(*, 'Austria',
fuzzy) AND LENGTH(COL1) > 5;
```

=>

```
SELECT *, SCORE() FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE CONTAINS((COL1, COL2,
COL3), 'Austria', fuzzy) AND LENGTH(COL1) > 5;
```

## 2. Split the query into two parts - *analytic search* and *text search*

```
SELECT *, SCORE() FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE CONTAINS(*, 'Austria',
fuzzy) AND LENGTH(COL1) > 5;
```

```
=>
```

```
DO BEGIN
```

```
temp = SELECT * FROM "_SYS_BIC"."test/ATTR_VIEW" WHERE LENGTH(COL1) > 5 WITH
HINT(NO_INLINE); -- analytic search
```

```
SELECT *, SCORE() FROM :temp WHERE CONTAINS(*, 'Austria', fuzzy); -- text search
```

```
END;
```

Please note

- SQL Optimizer will try to simplify the query during plan generation by merging these two parts into one (if possible), which becomes nothing but the original failing search query. Hint **NO\_INLINE** forces SQL Optimizer not to take such a coalescence into account.
- The result returned with this approach could be largely different from the first approach or the result with Attribute View if *CONTAINS()* predicate is provided with a complex logic and base tables under the calculation view are defined with fulltext indexes.

## Validity

Software Component	From Rel.	To Rel.	And Subsequent	
HDB	1.00	1.00		
	2.00	2.00		

## References

### This document refers to:

#### SAP Knowledge Base Articles

2800008 HAN-DB-ENG-TXT [FAQ: SAP HANA Fulltext Indexes](#)

2399990 HAN-DB [How-To: Analyzing ABAP Short Dumps in SAP HANA Environments](#)

#### SAP Notes

2380229 HAN-DB [SAP HANA Platform 2.0 - Central Note](#)

1523337 HAN-DB [SAP HANA Database 1.00 - Central Note](#)

### This document is referenced by:

#### Customer Incident (1)

Number	Year	Title	Status	Processor	Customer Number	Customer Name

0000812127	2023	<a href="#">Calculated_View_Error_after_Conversion_-_SYS_BIC.ZMDG_BP_SUP_</a>	Restricted		0000834366	Nokia Solutions and Networks Oy
<b>ServiceNow Case (1)</b>						
Number	Year	Text	Status	Processor	Customer Number	Customer
0000812127	2023	<a href="#">Calculated_View_Error_after_Conversion_-_SYS_BIC.ZMDG_BP_SUP_</a>	Closed	Jinsol Kim (I533393)		