

Cadaxo SQL Cockpit - 3.0

```
SELECT A-PARTNER, A-PARTNER_GUID,  
COALESCE ( B-RELTYP, '-' ) AS RELATION  
FROM BUT000 AS A  
LEFT OUTER JOIN BUT050 AS B ON B-PARTNER1 = A-PARTNER
```

Neue Funktionen im Cadaxo SQL Cockpit 3.0

Webinar, 26.02.2016



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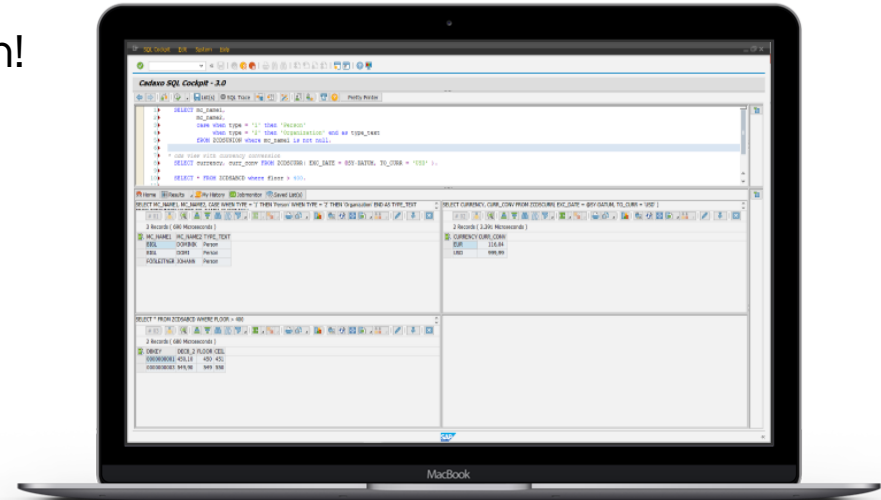
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- **SQL Cockpit** – So nah waren Sie ihren Daten noch nie

- **SQL Cockpit** ist das einzigartige Datenbank-Abfrage-, Vergleichs- und –Änderungstool für ihr SAP System!
- Der **SQL Editor** bietet Templates und Code Completion zur schnellen Erstellung von SQL Abfragen.
- **Revisionsicherheit**¹ bestätigt durch Ernst & Young!



¹Gemäß Fachgutachten KFS/DV1 „Die Ordnungsmäßigkeit von IT-Buchführungen“

- **SQL Expressions <= 7.40 SP8 werden unterstützt**

- Arithmetische Kalkulationen (+, -, *, /)
- Arithmetische Funktionen (abs, ceil, floor, div, mod)
- Typanpassung mit CAST für fltp Dictionary Typen
- Zeichenkettenausdrücke (Strings, Verketteten mit &&, ...)
- COALESCE-Funktion
- Fallunterscheidung mit CASE

- **Weitere Informationen**

- http://help.sap.com/abapdocu_740/en/index.htm?file=ABAPSQL_EXPR.htm

● SQL Expressions

- Verschiedene Beispiele

```

1 ▶ SELECT SUM( CASE TYPE
2 ▶     WHEN '2' THEN 1
3 ▶     ELSE 0
4 ▶     END ) AS CNT_ORGS,
5 ▶     SUM( CASE TYPE
6 ▶     WHEN '1' THEN 1
7 ▶     ELSE 0
8 ▶     END ) AS CNT_PERS,
9 ▶     COUNT( * ) AS ALL
10 ▶ FROM BUT000 GROUP BY CLIENT.
11 ▶

```

```

1 ▶ SELECT ( MEM_HOUSE + 2 + 1 ) * 2 AS MEM1,
2 ▶     CAST( MEM_HOUSE AS FLTP ) AS MEM2,
3 ▶     MEM_HOUSE * 0 AS MEM3
4 ▶ FROM BUT000.
5 ▶

```

```

1 ▶ SELECT A~PARTNER,
2 ▶     A~PARTNER_GUID,
3 ▶     COALESCE( B~RELTYP, '--' ) AS RELATION
4 ▶ FROM BUT000 AS A
5 ▶ LEFT OUTER JOIN BUT050 AS B
6 ▶ ON B~PARTNER1 = A~PARTNER
7 ▶ ORDER BY A~PARTNER.
8 ▶

```

```

1 SELECT ABS( mem_house ) AS a,
2     MOD( mem_house, 12 ) AS m
3 FROM zdemodata.
4

```

```

1 SELECT mc_name1 && '/' && mc_name2
2 FROM but000.
3

```


- **CDS Views <= 7.40 SP8 werden unterstützt**
 - Parameter
 - Fallunterscheidung mit CASE
 - Casting
 - SQL Funktionen (ABS, CEIL, DIV, DIVISION, CONCAT, ...)
 - UNION, UNION ALL
 - Konvertierungsfunktionen für Währungen und Einheiten
 - ...
- **Weitere Informationen**
 - http://help.sap.com/abapdocu_740/en/index.htm?file=ABENCDS.htm

● CDS Views

- Beispiel Arithmetische Funktionen

```
1 | SELECT * FROM zcdsabcd
2 |
```

SELECT * FROM ZCDSABCD

01 | 

2 Records (866 Microseconds)

| DBKEY | DEC8_2 | FLOOR | CEIL |
|------------|--------|-------|------|
| 0000000001 | 450,10 | 450 | 451 |
| 0000000003 | 549,90 | 549 | 550 |

```
1 | @AbapCatalog.sqlViewName: 'zcdsabcd_db'
2 | define view Zcdsabcd as select from zdatentypen {
3 |     dbkey,
4 |     dec8_2,
5 |     floor( dec8_2 ) as floor,
6 |     ceil( dec8_2 ) as ceil
7 | }
```

● CDS Views

○ Beispiel CURRENCY_CONVERSION

```

1  SELECT * FROM
2      zcdscurr( exc_date = @sy-datum,
3                to_curr = 'USD' ).
4

```

SELECT * FROM ZCDSCURR(EXC_DATE = @SY-DATUM, TO_CURR = 'USD')



2 Records (5.729 Microseconds)

| ORIGINAL | CURRENCY | CURR_CONV |
|----------|----------|-----------|
| 123,45 | EUR | 116,04 |
| 999,99 | USD | 999,99 |

```












1  @AbapCatalog.sqlViewName: 'zcdscurr_db'
2  define view Zcdscurr
3      with parameters exc_date: abap.dats,
4                    to_curr: abap.cuky(5)
5      as select from zdatentypen {
6          zdatentypen.curr as original,
7          zdatentypen.cuky as currency,
8          currency_conversion(
9              amount => zdatentypen.curr,
10             source_currency => zdatentypen.cuky,
11             target_currency => :to_curr,
12             exchange_rate_date => :exc_date,
13             error_handling => 'SET_TO_NULL' ) as curr_conv
14 }

```


- CDS Views
 - Beispiel UNION ALL

```
1 select * from Zcdsunion
2
```

SELECT * FROM ZCDSUNION

01 |  |  |  |  |  |  |  |  |  |  | 

3 Records (5.280 Microseconds)

| | PARTNER | TYPE | MC_NAME1 | MC_NAME2 |
|--|---------|------|------------|----------|
| | 101 | 1 | BIGL | DOMINIK |
| | 112 | 1 | BIGL | DOMI |
| | 113 | 1 | FÖBLEITNER | JOHANN |

```
1 @AbapCatalog.sqlViewName: 'zcdsunion_db'
2 define view Zcdsunion as
3   select from but000 {
4     partner,
5     type,
6     mc_name1,
7     mc_name2 }
8   where mc_name1 like 'B%'
9
10  union all
11
12  select from but000 {
13    partner,
14    type,
15    mc_name1,
16    mc_name2 }
17  where mc_name1 like 'F%'
```

● Spaltenangabe

- Die Spaltenangabe kann bei JOIN Abfragen nun generisch mit `dbtab~*` vorgenommen werden.

```
1 ▶ SELECT a~*,
2 ▶      b~*
3 ▶      FROM but000 AS a
4 ▶      INNER JOIN but020 AS b
5 ▶      ON b~partner = a~partner
6 ▶
```

● Symbole

- Werden nun im kompletten SELECT Statement unterstützt

| Symbol Name | Symbol Value | Description |
|-------------|-------------------------|-------------|
| COLUMNS | PARTNER, TYPE, MC_NAME1 | |
| TABLE | BUT000 | |
| WHERE | MC_NAME1 LIKE 'B%' | |

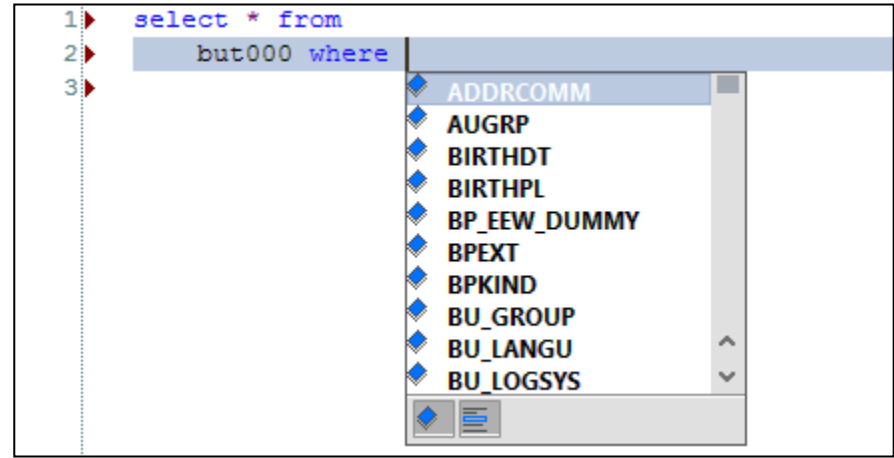

```

1 ▶ SELECT &COLUMNS&
2 ▶     FROM &TABLE&
3 ▶     WHERE &WHERE&
4 ▶

```

● Code Completion

- Die Standard Codecompletion des SAP Editor wurde aktiviert
- Die Aktivierung erfolgt mit STRG+SPACE



The screenshot shows a SQL editor window with the following text:

```

1 | select * from
2 | but000 where
3 |

```

A dropdown menu is open, displaying a list of table names for completion:

- ADDRCOMM
- AUGRP
- BIRTHDT
- BIRTHPL
- BP_EEW_DUMMY
- BPEXT
- BPKIND
- BU_GROUP
- BU_LANGU
- BU_LOGSYS

The list is scrollable, with up and down arrow buttons visible on the right side. A small icon is visible at the bottom left of the dropdown menu.

- Systemvoraussetzungen \geq 7.4 SP08
 - Mindestens **SAP NetWeaver 7.40** Support Package Stack **08**

| Installed Software Component Versions | | Installed Product Versions | | |
|---------------------------------------|---------|----------------------------|-----------------|--------------------------------|
| Component | Release | SP-Level | Support Package | Short Description of Component |
| SAP_BASIS | 740 | 0008 | SAPKB74008 | SAP Basis Component |
| SAP_ABA | 740 | 0008 | SAPKA74008 | Cross-Application Component |
| SAP_FIN | 740 | 0008 | SAPFB74008 | SAP Financial Accounting |
| SAP_SAP | 740 | 0008 | SAPSR74008 | SAP NetWeaver |

März

- 04.03.2016 SQL Cockpit 3.0 Releasenotes (EN)
<https://www.eventbrite.com/e/sql-cockpit-30-releasenotes-english-tickets-21624899657>
- 25.03.2016 ABAP Entwicklung in Eclipse & SAP WebIDE
<https://www.eventbrite.com/e/webinar-abap-entwicklung-in-eclipse-sap-web-ide-tickets-21201432054>

April

- 22.04.2016 SQL Cockpit – Funktionen & Einsatzmöglichkeiten
<https://www.eventbrite.com/e/cadaxo-sql-cockpit-funktionen-und-einsatzmoeglichkeiten-tickets-22269175704>

Auf Wiedersehen

Vielen Dank für Ihre Teilnahme!

Ich freue mich darauf, mit Ihnen in Kontakt zu bleiben,

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Questions & Answers



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