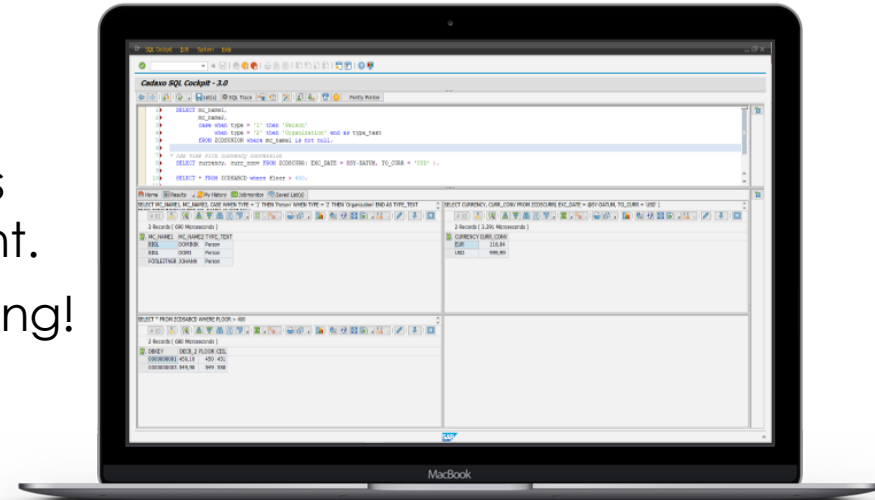


# Cadaxo SQL Cockpit - 3.0

```
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  
ORDER BY A-PARTNER.
```

**SQL Cockpit**  
Releasenotes 3.0

- **SQL Cockpit – Closer to the data**
  - **SQL Cockpit** is the unique database query, comparison and database modification tool for your SAP system!
  - **SQL Editor** features templates, code completion and many more functions to accelerate SQL query development.
  - **Auditability**<sup>1</sup> confirmed by Ernst & Young!



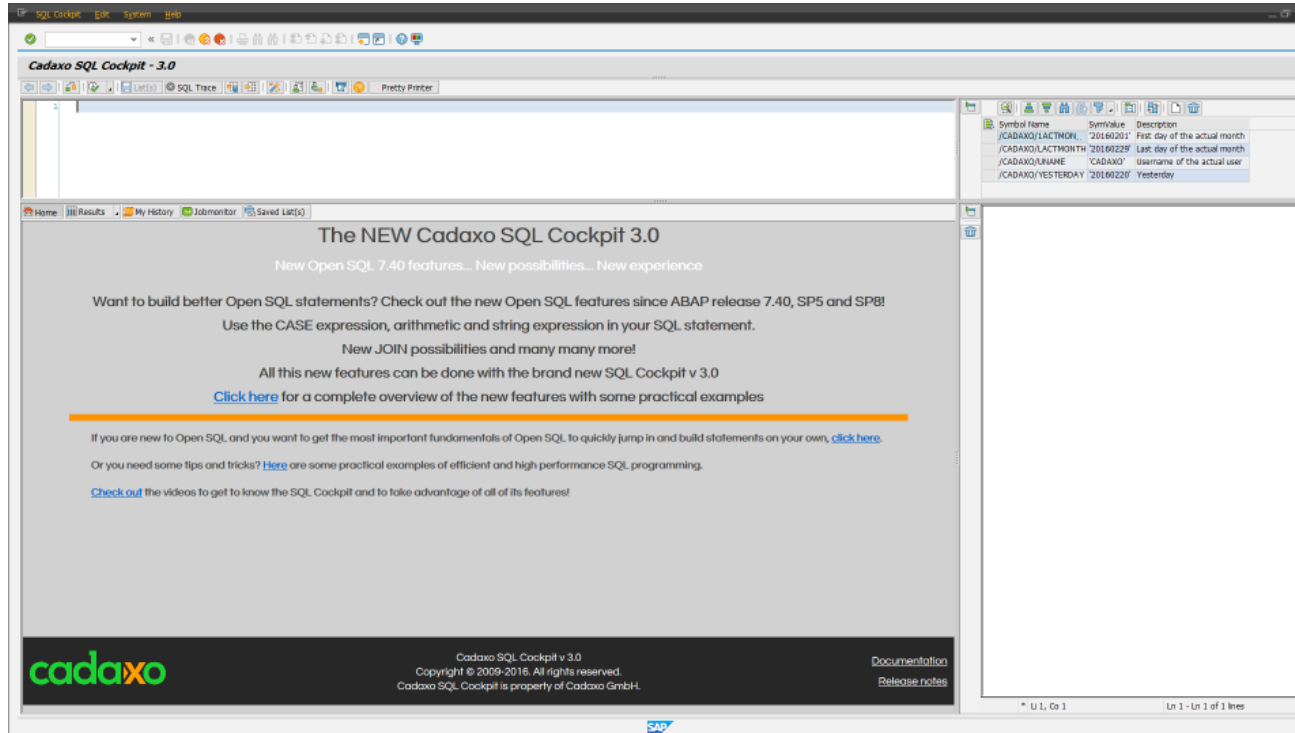
<sup>1</sup>According KFS/DV1 „ Compliance in IT-Accounting“

- **New functions**

- Support of **SQL Expressions** and **CDS Views**
- Support of **Code Completion** in the SQL Cockpit Editor
- Generic column specification with **dbalias~\***

- **Enhanced functions**

- Feel free to use the **Symbols** in the whole SELECT Clause
- Support of **more complex JOIN** Conditions



- **Support of SQL Expressions <= 7.40 SP08**

- Arithmetic calculations (+, -, \*, /)
- Predefined functions (ABS, CEIL, FLOOR, DIV, MOD, CONCAT, ... )
- Type modifications with CAST
- Chaining of character strings
- COALESCE function
- CASE distinction

- **More details about the SQL Expressions**

- [http://help.sap.com/abapdocu\\_740/en/index.htm?file=ABAPSQL\\_EXPR.htm](http://help.sap.com/abapdocu_740/en/index.htm?file=ABAPSQL_EXPR.htm)

## • SQL Expressions

- Some examples

```

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▶

```












- **Support of CDS Views <= 7.40 SP08**
  - Parameter Views
  - CASE distinction
  - Casting
  - SQL functions like ABS, CEIL, DIV, DIVISION, CONCAT, ...
  - Coalesce
  - Conversion Functions for Units and Currencies
  - ...
- **More details about the CDS Views**
  - [http://help.sap.com/abapdocu\\_740/en/index.htm?file=ABENCDS.htm](http://help.sap.com/abapdocu_740/en/index.htm?file=ABENCDS.htm)

## • CDS Views

- Example: Arithmetic function (FLOOR and CEIL)

```
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

- Example: Parameters & 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' )

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

- Example: 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%'
```

- **Column Specification**
  - Support of the more generic column specification with `dbtab~*`

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

## • Symbols

- With the newest release it is possible to use the symbols in the whole SELECT Statement.

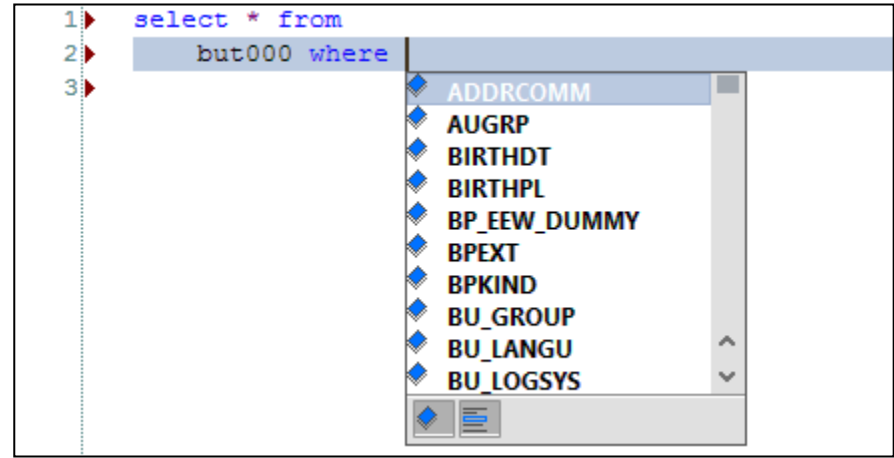
Symbol Name	Symbol Value	Description
COLUMNS	PARTNER, TYPE, MC_NAME1	
TABLE	BUT000	
WHERE	MC_NAME1 LIKE 'B%'	

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

## • Code Completion

- The Code Completion suggests valid keywords, tables or columns



```
1 | select * from  
2 | but000 where  
3 |
```

- ◆ ADDRCOMM
- ◆ AUGRP
- ◆ BIRTHDT
- ◆ BIRTHPL
- ◆ BP\_EEW\_DUMMY
- ◆ BPEXT
- ◆ BPKIND
- ◆ BU\_GROUP
- ◆ BU\_LANGU
- ◆ BU\_LOGSYS

- **System Requirements  $\geq$  7.4 SP08**
  - At least **SAP NetWeaver 7.4** 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	SAPSA74008	SAP Application Server



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