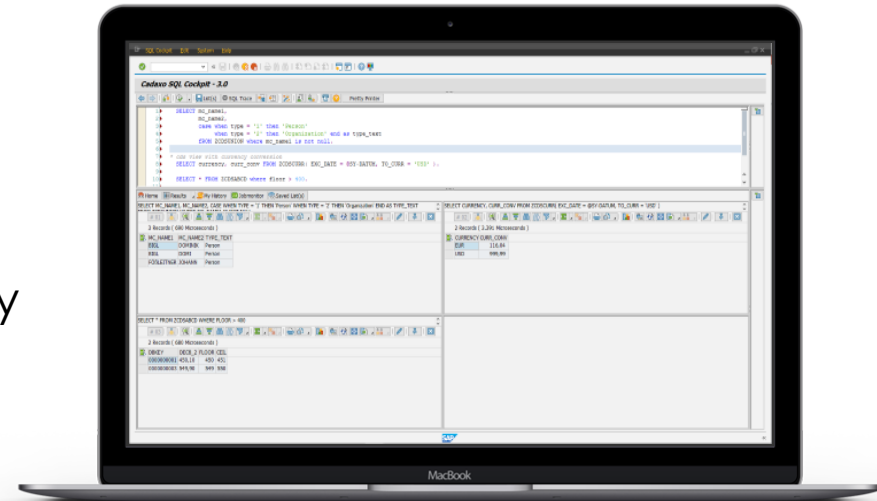




## SQL Cockpit

The unique ABAP [Open SQL Editor](#) for every SAP System

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



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

## • Some of our satisfied customers

- Various industries
  - Consumer Products
  - Retail
  - Insurance
  - Public Sector
  - Healthcare
  - Media
  - ...



The screenshot displays the Cadaxo SQL Cockpit 3.0 application window. The top menu bar includes 'SQL Cockpit', 'Edit', 'System', and 'Help'. Below the menu is a toolbar with various icons for file operations and execution. The main window is divided into two primary sections: a SQL Editor at the top and a Results Area at the bottom.

**SQL Editor:** The editor contains two SQL queries. The first query, labeled '1', is a SELECT statement that retrieves 'LAND1', 'LANDX', and 'NATIO' from a table named 'T005T' where 'SPRAS' equals '@sy-langu', ordered by 'LAND1' ascending. The second query, labeled '2', is a more complex SELECT statement using the 'COALESCE' function to retrieve 'A~PARTNER', 'A~SOURCE', 'A~CRDAT', and 'ADDRESS\_NUMBER' from a table named 'BUT000' with a left outer join to 'BUT020' on the condition 'B~PARTNER = A~PARTNER'.

**Results Area:** The results area is split into two panes. The left pane shows a list of 200 records from the 'T005T' table, with columns 'LAND1', 'LANDX', and 'NATIO'. The right pane shows 83 records from the 'BUT000' table, with columns 'A~PARTNER', 'A~SOURCE', 'A~CRDAT', and 'ADDRESS\_NUMBER'. Both panes display a list of records with their respective values.

At the bottom of the window, a status bar indicates: 'System: CCO Client: 010 User: CADAXO Date: 26.02.2016 Time: 16:15:47'. A message at the bottom left states: 'At least one selection was restricted to 200 hits.'

## ABAP SQL Editor

Direct SQL input  
Only SELECT – no  
DELETE or UPDATE  
allowed

## Result Area

Unlimited result lists  
at once

### SQL Editor

Enter, execute, analyze and optimize ABAP Open SQL statements. Also the brand new SQL Expressions and CDS Views.

### Result Area

Display, save, share, export or compare result lists. Use the full ALV feature list or use crystal reports

### Collaboration

Create and share variants, generate new standalone reports or send result lists to colleagues

### User friendly

The SQL Cockpit was developed with support from a lot of end users. This has helped us to deliver a great user experience.

## ABAP Development

- Development acceleration
- Reduce additional development cycles
- Identifying problematic SQL and ensuring performance on the database

## IT Support

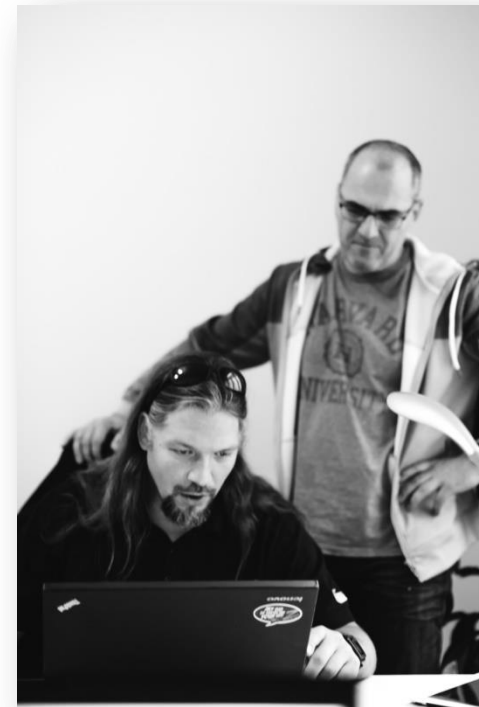
- Accelerates troubleshooting
- Quick analysis directly in productive environment
- Several queries at one look
- Checking database health

## Implementation Projects

- Supports the whole consulting team
- Consistency checks
- Diagnosing bottlenecks and tuning SQL
- Test Data Management

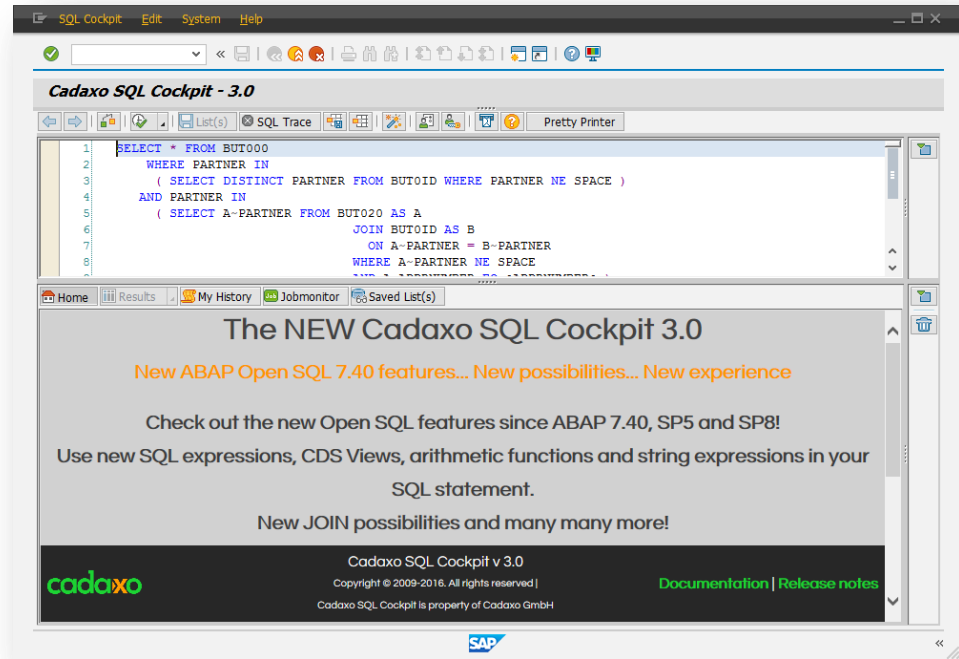
## Ad hoc queries (All SAP Users)

- Avoids one-time developments
- No developer skills necessary
- View results in ABAP ALV, Crystal Reports or export it to excel, word, ...



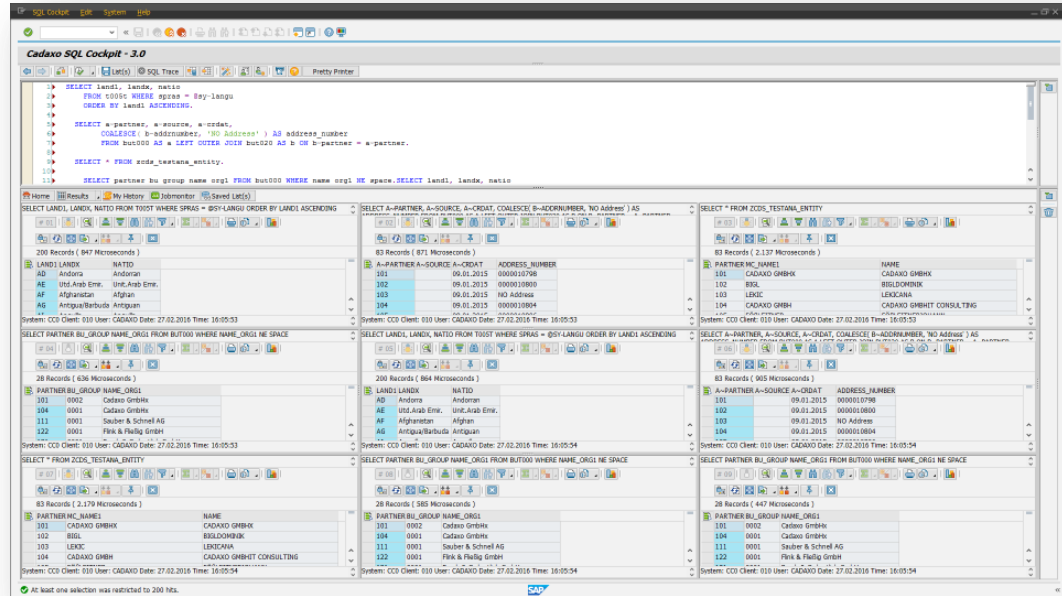
## • SQL Cockpit Release History

- Version 0.9 - 2009
- SQL Cockpit v1.0 - 2010
- Version 1.1 - 2011
- Version 1.2 - 2012
- Version 2.0 - 2013
- Version 2.1 - 2014
- Version 2.2 - 2015
- **Version 3.0 - 2016**



## • No limits

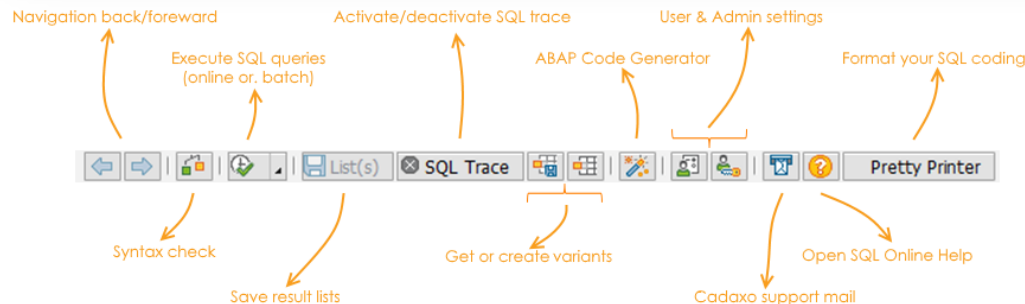
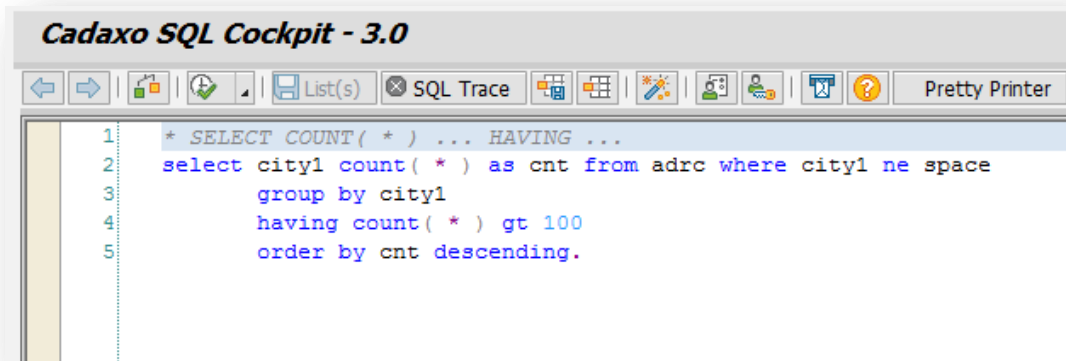
- **Multiple Lists** at a glance
- Only the memory and the screen are the limits
- A list can be enlarged to full screen mode
- Use **ALV** or **Crystal Reports** to display the results
- Many other list options
  - Sort, Find, Filter, Export, Send, Print, Charts, ...





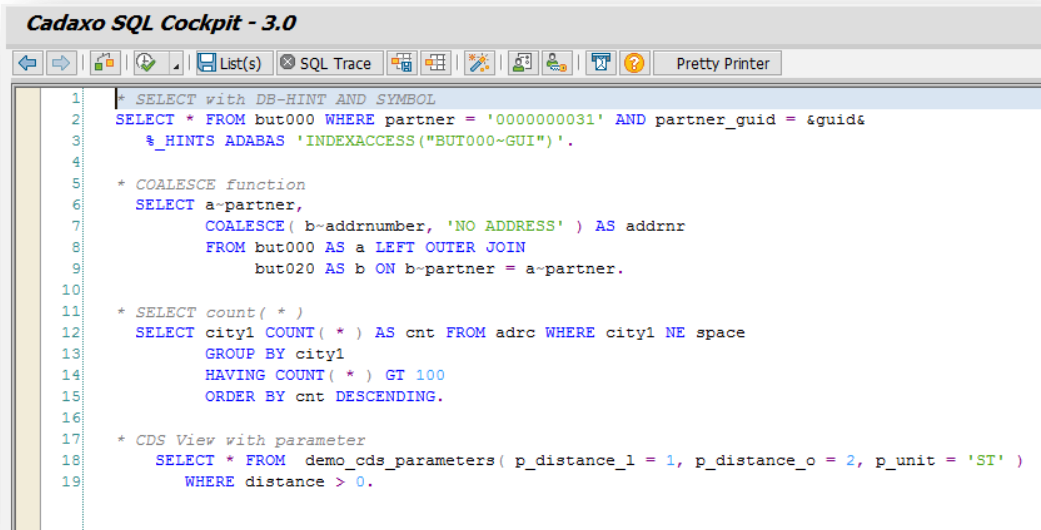
## • The SQL Editor

- It's the interface to enter **all available** ABAP Open SQL select statements
- Save and share your favorite SQL queries with your colleagues
- Generate standalone Z-Reports
- ...



## • ABAP Open SQL

- The SQL Cockpit Supports all **ABAP Open SQL** Features
  - Joins, Aggregate functions, Subselects, CDS Views, Open SQL Expressions, DB Hints, Secondary DB Connection, ...
- Runs on **all SAP certified** databases
  - **SAP Hana**, SAP MaxDB, DB2, MS SQL Server, Oracle, ...



```

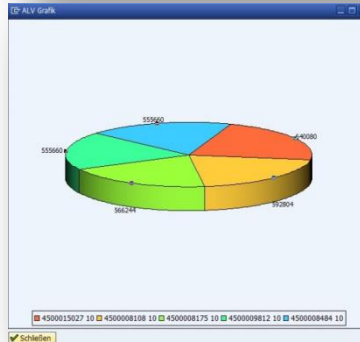
1  * SELECT with DB-HINT AND SYMBOL
2  SELECT * FROM but000 WHERE partner = '0000000031' AND partner_guid = &guid&
3      %_HINTS ADABAS 'INDEXACCESS("BUT000~GUI")'.
4
5  * COALESCE function
6  SELECT a-partner,
7      COALESCE( b-addrnumber, 'NO ADDRESS' ) AS addrnr
8      FROM but000 AS a LEFT OUTER JOIN
9          but020 AS b ON b-partner = a-partner.
10
11 * SELECT count( * )
12 SELECT city1 COUNT( * ) AS cnt FROM adrc WHERE city1 NE space
13 GROUP BY city1
14 HAVING COUNT( * ) GT 100
15 ORDER BY cnt DESCENDING.
16
17 * CDS View with parameter
18 SELECT * FROM demo_cds_parameters( p_distance_l = 1, p_distance_o = 2, p_unit = 'SI' )
19 WHERE distance > 0.
  
```

## Query results

- A lot of possibilities
  - Sort, Filter, Search, Sum
  - Export to Excel, Word, local File, HTML File, SAP Office
- Display data
  - ALV Grid
  - Graphic
  - Crystal Reports
- **Compare 2 lists** and show differences

14 Records ( 1.170 Microseconds )

A~PARTNER	A~MC_NAME1	A~MC_NAME2	C~POST_CODE1	STREET
101	CADAXO GMBH		1030	Weyrgasse 9/3
104	CADAXO GMBH	IT CONSULTING	1030	Weyrgasses 9/2
111	SAUBER & SCHNELL AG		1010	Stephansplatz 1
112	STALLONE	ARNOLD	4020	Terminatorstrasse 1
122	FLINK & FLIEßIG GMBH		1010	Stephansplatz 1
131	RASCH & ORDENTLICH GMBH		75001	Louvre 1
141	LICHT & HELL		6800	Lichtstrasse 1
144	RESCH & FRISCH GMBH		1010	Stephansplatz 1
153	LAST NAME	FIRST NAME	1111	
154	SACHA	DUSAN	1100	Street 1
157	CADAXO	CADAXO GMBH	1010	Centerstreet 1
159	US COMPANY		23333	Teststreet 7
162	SACHA	DUSAN	1010	Wein Strasse 1
173	DEMOUSER	FIORI	1030	Weyrgasse 3/9



SQL Cockpit - List comparison result

Summary	Details/Legend
74 rows are equal	Nr. Create Date OTime SAP System Client
1 rows are different	#1 28.02.2016 14:48:52 CCO 010
1 rows are missing	#2 23.02.2016 19:16:49 CCO 010

CL1	CL2	PART	PARTNER	TITLE	TITLE	NAME_ORG1	NAME	NAME_O	NAME_F1	NAME_F2	TITLE_A	TITLE_A	XSEID1	XSEID2	XSEID3	XSEID4	M
010	010	101	0000000101			Cadaxo GmbH	Cadaxo										C
010	010	104	0000000104			Cadaxo GmbH	Cadaxo	Testx	Test								C
010	010	141	0000000141			Licht & Hell	Zumt										L
010	010	144	0000000144			Resch & Fris	Resch	test	test								M
010	010	137	0000000137			CADAXO	CADA										C
010	010	202	0000000202	0002				superdup	0001			X			X		M
010	233					Men Superd											M

- **Safety first**

- **SELECTs only** – no INSERT, UPDATE or DELETE possible
- Supports all necessary SAP Standard Authorization Objects
  - S\_TABU\_DIS, S\_TABU\_CLI, ...
- Additional authorization and roles
- **Auditability** confirmed by Ernst & Young!

SQL Features	SQL Cockpit	SE16	Quick Viewer	SAP Query	SQL Console <sup>1</sup>
Hands free query definition	✓				✓
Unlimited queries in parallel mode	✓				
„INNER JOIN“	✓	✓	✓	✓	✓
„OUTER JOIN“	✓		✓	✓	✓
Subqueries	✓				✓
Aggregate functions (SUM, AVG, ...)	✓				✓
DB Hints	✓				✓
CDS View Entities	✓				✓
IS_NULL Conditions	✓				✓
Open SQL Expressions	✓				✓
Secondary Database Connection	✓				✓

<sup>1</sup>The SQL Console is only available in ABAP for Eclipse (>= SAP Web AS 7.40 SP8)

Tool Features	SQL Cockpit	SE16	Quick Viewer	SAP Query	SQL Console <sup>1</sup>
Transport free	✓	✓			✓
Background processing	✓			✓	
Repository to save/share query definitions	✓			✓	
Standard Authorizations <sup>2</sup>	✓	✓	✓	✓	✓
Additional Authorizations	✓				
Reportgenerator	✓				
History list of all executed queries	✓				Max. 25
Result list comparison	✓				
Save lists for later analysis	✓	✓	✓	✓	Local
Show DDL Definitions of CDS Entities	✓				✓
ALV Charts	✓	✓	✓	✓	

<sup>1</sup>The SQL Console is available in ABAP for Eclipse

<sup>2</sup>Standard authorization Objects S\_TABU\_\*



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<https://twitter.com/cadaxo>



<http://com.slideshare.net/cadaxogmbh>



<http://www.youtube.com/CadaxoGmbH>