

# File-AID for DB2

## Einführung

**cps4it**

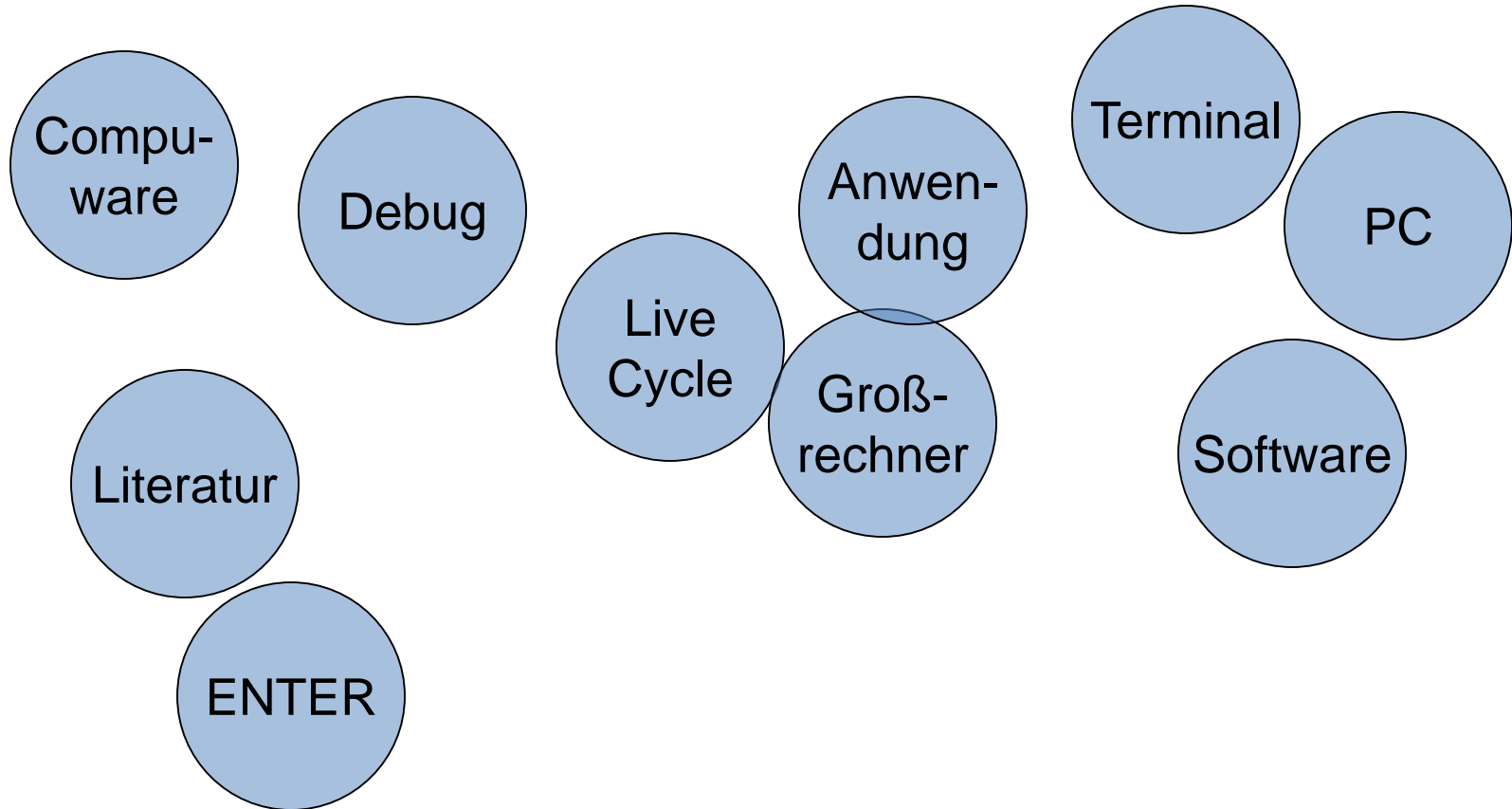
consulting, projektmanagement und seminare für die informationstechnologie

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Internet: <http://www.cps4it.de>

- 
- ➔ • Einführung
  - Einstieg und Überblick
  - Edit und Browse
  - Kopieren Tabellen
  - Laden und Entladen Tabellen
  - Drucken Tabellen
  - Selektionskriterien



## Produkte von Compuware

---

- File-AID for DB2 / ... for IMS / ... for MVS
- Xpediter CICS / Xpediter TSO/IMS
- Abend Aid / CICS Abend Aid
- Strobe
- Licence Management System
- QA Center
- Vantage
- etc.

- Seit vielen Jahren auf dem Markt
- eine \*der\* Standard-Software von Compuware
- Angleichung File-AID MVS / DB2 / IMS
- Zielumgebung Großrechner
- Zielgruppe Anwendungsentwicklung



- File-AID for DB2 Reference Manual
- File-AID for DB2 Quick Reference Manual
  
- Bookmanager im Hause
- <http://frontline.compuware.com>
  - > File-AID-DB2 > Tips and Techniques
- <http://wiki.cps4it.de>



## Ziele des Produkts – 1

---

- Hilfe für Anwendungsentwicklung
- DB2 kennen lernen ohne SQL-Kenntnisse
- Tabellen auf Basis bestehender definieren
- Prototyping
- SQL-Statements ausführen und analysieren
- DB2-Objekte definieren
- Testtabellen erzeugen

## Ziele des Produkts – 2

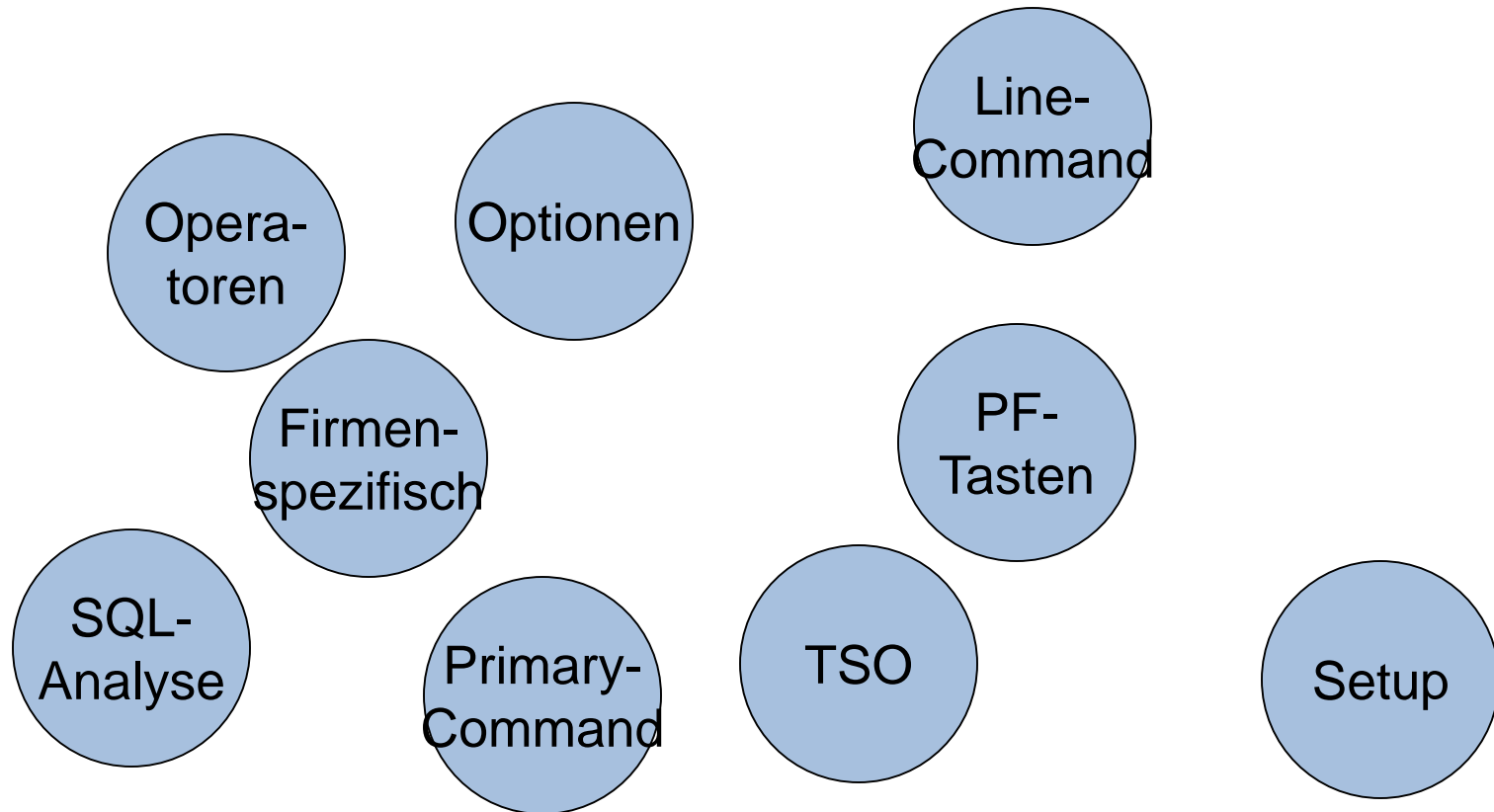
---

- Daten modifizieren
- ohne SQL-Kenntnisse
- konsistent
- Autorisierungen bearbeiten
- DB2 Lernkurve vermindern
- Testzeiten reduzieren
- Prototyping SQLs





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# Einstieg und Überblick

## Primary Menü

File-AID for DB2 - 6.1 ----- Primary Option Menu -----

OPTION ==>>

		More:	+
0	DEFAULTS and USER PARMS	USERID -	VKA2
1	BROWSE	TIME -	17:24
2	EDIT	TERMINAL -	3278
3	UTILITIES	PF KEYS -	24
3.1	- Object Administration	CCSID -	01141
3.2	- Create, Model, Drop, Alter DB2 Objects	DB2 SSID ==>>	DB2V
3.3	- Copy Rows Between Tables		
3.4	- Object List Processing		
3.5	- SQL Command Manager		
3.6	- Display, Grant or Revoke DB2 Privileges		
3.7	- Extract and Load Tables		
3.8	- DBA-XPERT Column Impact Analysis		
3.9	- Batch Execute SQL with Auto-COMMIT Processing		
4	SQL ANALYSIS - SQL Development and Analysis		
5	PRINT - Print table Data or Audit Trail		
6	RELATIONSHIPS - Relationship Facilitator		
7	DATA DISGUISE - Define Disguise Criteria and Disguise Extract files		
R	File-AID/RDX - Transfer to File-AID/Related Data XPERT		
XT	XPEDITER - Transfer to XPEDITER		
T	TUTORIAL - Display information about File-AID for DB2		
C	CHANGES - Display summary of File-AID for DB2 changes		
X	EXIT - Exit File-AID for DB2		

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- firmenspezifisch



- Browse/Edit/Analysis display options
- Dataset allocation for SQL
- Batch options
- Index, tablespace, and database default values
- Logging options
- Print options
- System Path options

## 0 – Options Menü

```
File-AID for DB2 ----- UserParms -----
OPTION ==>                               Scroll ==> CSR

DB2 Subsystem: DB2T           ==> DB2T           DB2 Version: 8.1.5
Current SQLID: XV8822D       ==> XV8822D       FADB2 Version: 4.9.0.23
Current SCHEMA: XV8822D     ==> XV8822D       SQLP Version: 04.09.00
                                   FM Version: R2.1

    1 Browse/Edit/SQL Analysis Display Options
    2 Dataset Allocation
    3 Batch Options
    4 Not Used
    5 Index, Tablespace, and Database default values
    6 Logging Options
    7 Print Options
    8 Special Register Values
    9 Trigger Terminator
```

## 0.1 – Browse/Edit/SQL Analysis Display Options – 1

```
File-AID for DB2 ---- Browse/Edit/SQL Analysis Display Options ---- SSID: DB2T
COMMAND ==>

Primary, Foreign and Unique Key Options
  Allow update of primary key in edit          ==> OFF      (ON or OFF)
  Indicate foreign key columns while in edit   ==> OFF      (ON or OFF)
  Retrieve UNIQUE KEY information prior to edit ==> OFF      (ON or OFF)
Commit Options in EDIT
  AUTOCOMMIT commits changes upon pressing enter ==> OFF      (ON or OFF)
  AUTOSAVE commits changes upon exiting session ==> OFF      (ON or OFF)
Lowercase Support for Object Names Browse/Edit
  Object names are converted to uppercase      ==> ON        (ON or OFF)
Lowercase Support for Data in Browse/Edit/SQL Analysis
  Data is converted to uppercase              ==> OFF      (ON or OFF)
Row Selection Option
  Maximum Rows to Select                      ==> 200      (* = all rows)
Identity column Option
  Allow update of Identity Columns in edit    ==> OFF      (ON or OFF)
----- press DOWN for more display options -----
```

## 0.1 – Browse/Edit/SQL Analysis Display Options – 2

```
File-AID for DB2 ----- Browse/Edit Display Options ----- SSID: DB2T
COMMAND ==>

Null Handling Options
Null Display Character          ==> -
Null Entry Character           ==> §
Spaces imply null in character columns ==> OFF      (ON or OFF)

Variable Length Options
End of variable length column character ==> #
Truncate trailing spaces on insert/update ==> ON      (ON or OFF)

Distinct Type Autocast Options
Allow autocast                 ==> Y      (Y/N)
Issue warning before autocast  ==> Y      (Y/N)

Other Options
Insert default for date/time/timestamp ==> 1      (1 -> LOCAL,
                                           2 -> GMT)

Non-displayable data character  ==> .
Issue warning if SQL cannot be parsed ==> Y      (Y/N)

----- press UP for other DISPLAY OPTIONS -----
```



## 0.2 – Dataset Allocation

File-AID for DB2 ----- Dataset Allocation ----- SSID: DB2T

COMMAND ==>

Specify SQL Dataset Info:

Dataset Name ==> FAIDDB2.SOURCE

Dataset Password ==>

(If password protected)

Specify Work File Dataset Info:

High Level Qualifier ==>

(If different than USERID)

FDBA639 Dataset FAIDDB2.SOURCE will be used for the SQL command

## 0.3 – Batch Options

```
File-AID for DB2 ----- Batch Options ----- SSID: DB2T
```

```
COMMAND ==>
```

```
Job Statement Information:
```

```
==> //XV8822DF JOB '1N289003010200100000', 'R.SEIDLER AL34-188',  
==> //          CLASS=S,MSGCLASS=Y,  
==> //          TIME=1440,REGION=0M,NOTIFY=&SYSUID  
==> //*MAIN ROOM=AL34-388
```

## 0.5 – Object Creation Default Values

File-AID for DB2 ----- Object Creation Default Values ----- SSID: DB2T

COMMAND ==>

DATABASE Name ==>

TABLESPACE Name ==>

----- TABLESPACE Creation Default Values -----

STOGROUP ==>	FREEPAGE ==>	BUFFERPOOL ==> BP2
PRIQTY (K) ==> 720	PCTFREE ==>	LOCKSIZE ==> ANY
SECQTY (K) ==> 720		CLOSE ==> NO
ERASE ==> NO		DSETPASS ==>
TRACKMOD ==>		SEGSIZE ==> 4

-- OR --

VCAT ==>

----- INDEX Creation Default Values -----

STOGROUP ==>	FREEPAGE ==>	SUBPAGES ==>
PRIQTY (K) ==> 720	PCTFREE ==>	BUFFERPOOL ==> BP3
SECQTY (K) ==> 720		CLOSE ==> NO
ERASE ==> NO		DSETPASS ==>

COPY ==>

-- OR --

VCAT ==>

## 0.6 – Logging Options

```
File-AID for DB2 ----- Logging Options ----- SSID: DB2T  
COMMAND ==>
```

```
Logging options for Trace information and generated SQL
```

```
Write data to          ==> 4      1 = Write to ISPF Log,  
                        2 = Write to screen,  
                        3 = Write to Log and Screen,  
                        4 = No logging
```

```
Log SQL information    ==> YES     YES/NO
```

```
Note: Additional logging may impact performance
```

```
Log ISPF calls         ==> NO      YES/NO
```

```
Log transfer of control ==> NO      YES/NO
```

## 0.7 – Print Options

File-AID for DB2 ----- Print Options ----- SSID: DB2T

COMMAND ==>

### Specify Printer Characteristics:

Printer Destination ==>

Lines per Page ==> 55 ..... 55

Sysout Class ==> ..... A

### Specify Output Dataset Characteristics:

Dataset Name ==> FADB2.PRINT

Volume Serial ==> ..... DISK01

Generic Unit ==> SYSDA ..... SYSDA

Directory Block ==> 0 ..... 0

Record Format ==> FB ..... FB or FBA

Record Length ==> 133 ..... 4092

Block Size ==> 0 ..... 4096

Dataset Password ==> (If password protected)



## Option 1 – Browse

---

- Anzeige Inhalte von
  - Tabellen
  - Alias
  - View
- Selektion von Rows / Columns
- einzelne Tabelle
- Verknüpfungen von Tabellen
- reine Anzeige



- Anzeige Inhalte von
  - Tabellen
  - Alias
  - View
- Selektion von Rows / Columns
- einzelne Tabelle
- Verknüpfungen von Tabellen
- Ändern von Inhalten



## Option 3 – Utilities – 1

---

- Create, Drop, Alter von DB2-Objekten
- Copy Rows zwischen Tables
- Anzeige von Objekten
- Aufruf SPUFI
- Berechtigungen pflegen
- Extrahieren und Laden
- Impact Analysis
- SQL Entwicklung und Analyse



- Drucken Tabellen und Audit Trail
- Pflege Relationen
- Zugang zu Xpediter
- File Aid / Related Data Expert



- ISPF-like wie
  - Action Bar
  - Pull Down Menüs
  - Scroll Feld (CSR, PAGE, HALF, MAX, nnn)
- Wildcards
  - \* (egal was kommt)
  - \_ (einzelner Character)
  - % (0-n Character)
- Teile von Column-Names

## Commands

---

- Primary Commands  
siehe separates Dokument
- Line Commands  
siehe separates Dokument
- User Profile  
siehe separates Dokument

[Link](#)

[Link](#)

[Link](#)



## Besonderheiten im Unternehmen – 1

```
File-AID for DB2 - 4.8 ----- Primary Option Menu ----- Enter option
OPTION ==>

+      0  DEFAULTS and USER PARMS
+      1  BROWSE
+      2  EDIT
      3  UTILITIES
-      3.2 - Create, Drop, Alter DB2 Objects
-      3.3 - Copy Rows Between Tables
-      3.4 - Object List Processing
-      3.5 - SQL Command Manager
-      3.6 - Display, Grant, Revoke or Modify DB2 Privileges
-      3.7 - Extract and Load Tables
-      3.8 - DBA-XPERT Column Impact Analysis
-      3.9 - Batch Execute SQL with Auto-COMMIT Processing
-      4  SQL ANALYSIS - SQL Development and Analysis
+      5  PRINT - Print table Data or Audit Trail
-      6  RELATIONSHIPS - Maintain relationship definitions
-      R  File-AID/RDX - Transfer to File-AID/Related Data XPERT
+      XT XPEDITER - Transfer to XPEDITER
+      T  TUTORIAL - Display information about File-AID for DB2
+      C  CHANGES - Display summary of File-AID for DB2 changes

More: +
USERID - RZSR
TIME - 12:41
TERMINAL - 3278
PF KEYS - 24

von DBA angelegt und verwaltet; Muster: BMC
via DSNTIAUL / P84N998 / IBM-Utilities
BMC Catalog Manager
SPUFI nicht benötigt
Verantwortung bei DBA
via DSNTIAUL / P84N998 / IBM-Utilities
nicht lauffähig

CA-Plan-Analyzer

nicht genutzt außer bei Doksys
Prod-Copy Verfahren

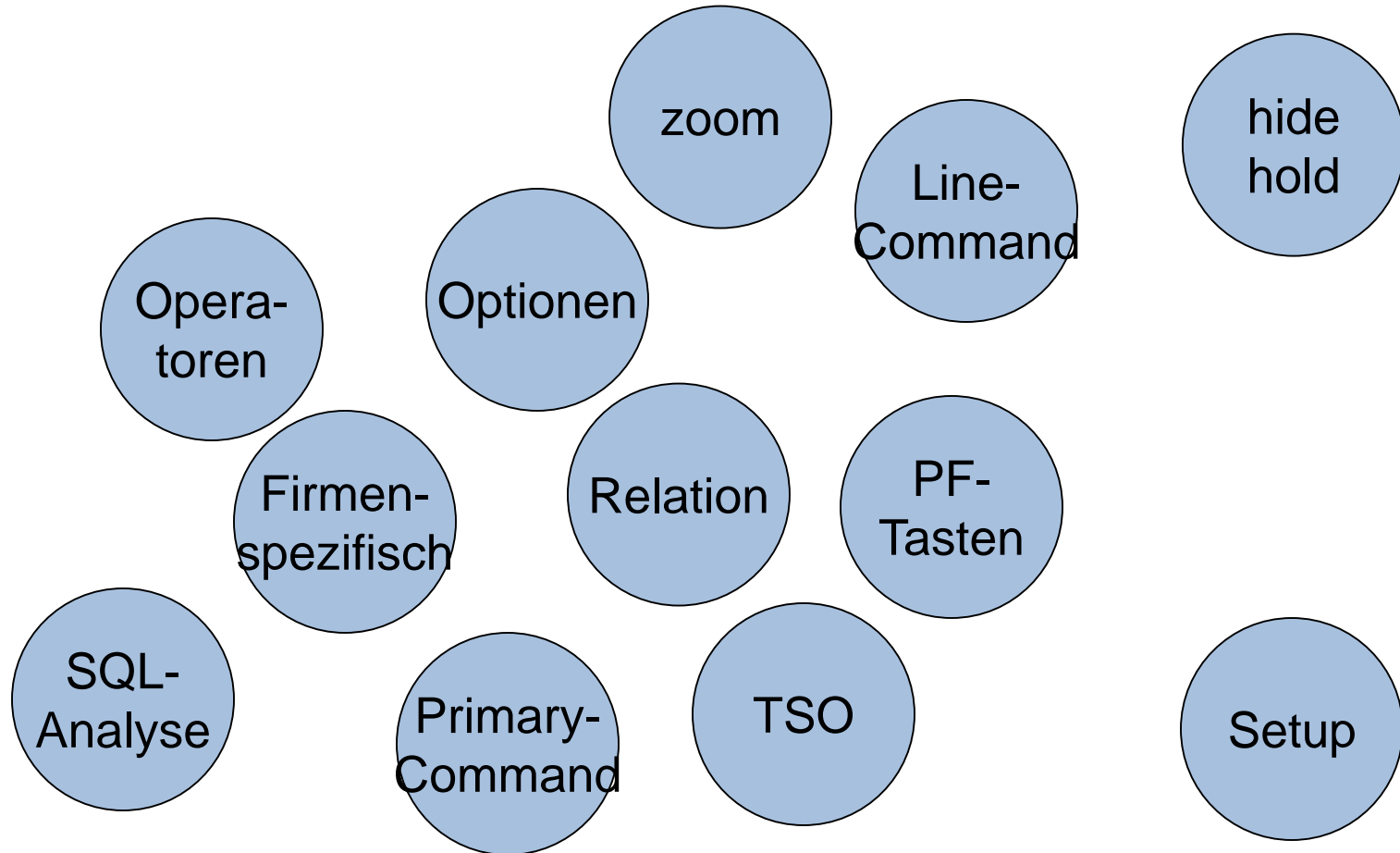
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Unpublished - rights reserved under the Copyright Laws of the United States.
```



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## Begriffe

---



## Einstiegsbild für Edit / Browse bis V4.9

```
File-AID for DB2 ----- Browse Options -----
COMMAND ==>
                                         SCROLL ==> CSR
                                         SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> LIEFERANT
  Optional:
  Database     ==>
  Tablespace   ==>

Specify Edit Template Information:
  Use Existing Criteria ==> NO      (Yes or No)
  Edit Criteria Dataset ==> FADB2.SELCRIT
  Member          ==>              (Blank or Pattern for list)

Specify Browse Options:
  Initial Display Mode ==> 1      (1 - Table, Multiple rows per screen
                                   2 - Row, One row per screen)
  Use Uncommitted Read ==> YES    (Yes or No)
  Maximum Rows To Select ==> 200  (* for all rows)
  Relationship File    ==> 'T84VSM.DB2T.FADB2.RELATE'
```

## Einstiegsbild für Edit / Browse ab V6.1

```
File-AID for DB2 ----- Browse Options -----
COMMAND ==>
                                                    SCROLL ==> CSR
                                                    SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> LIEFERANT
  Optional:
  Database     ==>
  Tablespace   ==>

Specify Selection Criteria Information:
  Selection Criteria usage ==> T   (T-Temporary, M-Modify, E-Existing, N-None)
  Criteria Display Format  ==> T   (T-Template, S-SQL)
  Criteria Dataset Name   ==> FADB2.SHOW.SQL
  Member                  ==> SHOWSQL8 (Blank or Pattern for list)

Specify Browse Options:
  Initial Display Mode    ==> 1   (1 - Table, Multiple rows per screen
                                2 - Row, One row per screen)
  Use Uncommitted Read   ==> YES  (Yes or No)
  Maximum Rows To Select ==> 200  (* for all rows)
  Relationship File       ==> 'T84VSM.DB2T.FADB2.RELATE'
```



# Edit und Browse

## Selection Template bis V4.9

```
File-AID for DB2 ----- BROWSE Selection Template ----- Row 1 to 4 of 4
COMMAND ==>
SCROLL ==> CSR
SSID: DB2T
```

Use EXEC to continue

Use SQL to view/edit the SQL source for XV8822D.LIEFERANT

Save Edit Criteria Information:

Save Template Criteria On Execute ==> NO (Yes or No)

Criteria Dataset Name ==> FADB2.SELCRIT

Member ==>

Max Rows to Select ==> 200 (\* = ALL ROWS)

```
SEL COLUMN NAME          TYPE (LEN)          ORDER (A/D) WHERE          More: >
--- -----1-----2-----+
___ LNR                   CHAR(6)
___ LNAME                 CHAR(15)
___ LSTATUS               SMALLINT
___ ORT                   CHAR(15)
```

# Edit und Browse



## Selection Template ab V6.1

```
File-AID for DB2 ----- BROWSE Selection Template ----- Row 1 to 4 of 4
COMMAND ==> (PF6)                                     SCROLL ==> CSR
                                                    SSID: DB2T

Use EXEC to continue; SQL to view/edit SQL; SAVE ; SIZE
Table Name: XV8822D.LIEFERANT
Max Rows to Select ==> 200          (* = ALL ROWS)

SEL  COLUMN NAME          TYPE (LEN)          ORDER (A/D) WHERE          More: >
---  -
___  LNR                  CHAR (6)
___  LNAME                CHAR (15)
___  LSTATUS              SMALLINT
___  ORT                  CHAR (15)
***** Bottom of data *****
```

## Selection Template – Spalten – 1

---

- **SEL**                      Auswahl der Column
  - Eingabe: S oder Zahl
- **Col-Name**              Name der Column
  - keine Eingabe
- **Order**                    Spaltennummer in Anzeige
  - Eingabe: Zahl
- **A/D**                        Angabe für Sortierung
  - Eingabe: A oder D

## Selection Template – Spalten – 2

---

- WHERE                    Selektionskriterien
  - bis 256 Character sind erlaubt
  - Kombinationen mit
    - > < <> = >= <= ^= ^> ^<
    - AND OR BETWEEN IN LIKE NOT
  
- Achtung: bei NULL-Abfrage “IS” angeben – z.B.  
IS [NOT] NULL



# Edit und Browse

## Anzeige Table-Mode

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.LIEFERANT 13 rows fetched
COMMAND ==> SCROLL ==> CSR
      LNR      LNAME      LSTATUS  ORT
      CHAR(6)  CHAR(15)      SMALLINT  CHAR(15)
      PRIMARY  -----
***** ***** TOP OF DATA *****
000001 L1      NEUMANN      60 Berlin
000002 L2      SCHMIDT      20 Hamburg
000003 L3      KRAUSE       30 Hamburg
000004 L4      MEIER        20 Berlin
000005 L5      SCHULZ       20 Frankfurt
000006 P1      .            ----- Hamburg .....
000007 P2      .            ----- Stuttgart .....
000008 P3      .            ----- Frankfurt .....
000009 P4      .            ----- Frankfurt .....
000010 P5      .            ----- Berlin .....
000011 P6      .            ----- Mainz .....
000012 P7      .            ----- Berlin .....
000013 P8      .            ----- Muenchen .....
***** ***** BOTTOM OF DATA *****
```

## Table-Mode – Felder

---

- Zeilennummern
  - Eingabe Line-Commands
- Spaltenüberschriften
  - Column-Name
  - Datentyp der Column
    - CHAR, VC, LVC, GRAPH, VG, LVG, SMALLINT, INTEGER, DEC, FLOAT, DATE, TIME, TIMESTAMP, DISTINCT NAME, ROWID
  - Anzeige Keys
    - Primary, Unique, Foreign, Prim+Frgn



## Anzeige Row-Mode

```

File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.LIEFERANT          SSID: DB2T
COMMAND ==>          SCROLL ==> CSR
Row 1
  COLUMN NAME           TYPE (LEN)  KEY              COLUMN VALUE
-----+-----+-----+-----+-----+-----+-----+-----+
001 LNR                 CHAR(6)   PRIM L1
002 LNAME               CHAR(15)             NEUMANN
003 LSTATUS             SMALLINT             60
004 ORT                 CHAR(15)             Berlin
***** BOTTOM OF DATA *****

```

- Column-Name
- Datentyp
- Key
  - PRIM, UNIQ, FRGN, IDNT, PRID, PRFI, IDFN, UNID
- Dateninhalte





## Anzeige konkurrierender Zugriff

```

File Edit View Options Open Menu Utilities Help
- EEEEEEEEEEEEEEEEEEEEEEEEEEE Concurrent Update Intercept sEEEEEEEEEEEEEEEEEEEEEEEEEE --
F e COMMAND ==>                               Row 1 to 2 of 4 e 2T
C e                                             e R
e This row was updated by another transaction prior to your changes. e
e Note: If this is a view the row may no longer qualify for inclusion. e
e Error:  1 of 1                                         e
e                                             e **
e Select one of the following options:                e
e  1 End           -- Take no action and return to EDIT  e
e  2 Cancel        -- Cancel all updates and refetch the table e
e  3 Refetch       -- Fetch the row in error             e
e  4 Force         -- Force the update to proceed      - WARNING e
e  5 Refetch ALL   -- Fetch all the rows in error      e
e  6 Force ALL     -- Force all the updates to proceed - WARNING e
e
e WARNING: Forcing an Update may cause insertion of new rows. e
e           For additional information, refer to "Concurrent Update e
e           Intercept" in the File-Aid for DB2 Reference Manual. e
e
e COL COLUMN NAME          TYPE(LEN)  KEY  COLUMN VALUE e
e ----+-----+-----+-----+---10---+---20---+---30 e **
e 001 LNR                  CHAR(6)   PRIM P1 e
e 002 LNAME                CHAR(15)   ---- e
DEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
e SQLP100H DB2 Warning: Sqlcode +100, Press HELP for information e
DEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
  
```



## Anzeige Check Constraint Error – 1

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2                      Edit - USERID.EMP                      SSID: DSN
COMMAND ==> S +-----+-----+ Check Constraint Error -----+
                LASTNA | COMMAND ==> |                                SCROLL ==> CSR |
                VC(15)  |          |                                |
                -----+-----+-----+
*****          *****
000001  O'CONN          SQL code -545 was found because of a violation to the
000002  QUINTA          following constraint:
000003  NICHOL          -----+-----+
000004  ADAMSO          |
000005  PIANKA          |
000006  YOSHIM          JOB IS NULL      OR JOB IN('CLERK', 'ANALYST', 'DESIGNER',
000007  SCOUTT          'DEVELOPER', 'TECHWRITER', 'ACCOUNT_EXEC', 'PROJECT_MGR')
000008  WALKER          |
000009  BROWN          |
000010  JONES          +-----+-----+
000011  LUTZ             JENNIFER      K           000220  DESIGNER  1948-03-19
000012  JEFFERSON       JAMES        J           000230  CLARK    1935-05-30
000013  MARINO          SALVATORE    M           000240  CLARK    1954-03-31
000014  SMITH           DANIEL       S           000250  CLARK    1939-11-12
000015  JOHNSON        SYBIL        V           000260  CLERK    1936-10-05
000016  PEREZ           MARIA        L           000270  CLERK    1953-05-26
```

## Anzeige Check Constraint Error – 2

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2                      Edit - USERID.EMP                      SSID: DSN
COMMAND ===>                          SCROLL ===> PAGE
      LASTNAME      FIRSTNAME      MIDINIT      EMPNO      JOB      BIRTHDATE
      VC(15)         VC(12)         CHAR(1)      CHAR(6)    CHAR(8)    DATE
      -----
      -----
***** ***** TOP OF DATA *****
000001 O'CONNELL      SEAN                000120      CLERK      1942-10-18
000002 QUINTANA       DOLORES             M           000130      ANALYST    1925-09-15
000003 NICHOLLS       HEATHER             A           000140      ANALYST    1946-01-19
000004 ADAMSON        BRUCE                000150      DESIGNER   1947-05-17
000005 PIANKA        ELIZABETH           R           000160      DESIGNER   1955-04-12
000006 YOSHIMURA    MASATOSHI           J           000170      DESIGNER   1951-01-05
000007 SCOUTTEN     MARILYN             S           000180      DESIGNER   1949-02-21
000008 WALKER        JAMES                H           000190      DESIGNER   1952-06-25
000009 BROWN         DAVID                000200      DESIGNER   1941-05-29
000010 JONES         WILLIAM             T           000210      DESIGNER   1953-02-23
000011 LUTZ          JENNIFER            K           000220      DESIGNER   1948-03-19
==ERR> JEFFERSON    JAMES                J           000230      CLARK      1935-05-30
==ERR> MARINO      SALVATORE           M           000240      CLARK      1954-03-31
==ERR> SMITH       DANIEL              S           000250      CLARK      1939-11-12
000015 JOHNSON       SYBIL                V           000260      CLERK      1936-10-05
000016 PEREZ        MARIA                L           000270      CLERK      1953-05-26
```

## Paralleles Editieren / Browsen – Aufruf

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.TEIL 6 rows fetched
COMMAND ==> ed SCROLL ==> CSR

      TNR      TNAME      FARBE      GEWICHT  ORT
      CHAR(5)  CHAR(8)   CHAR(7)   SMALLINT CHAR(15)
      PRIMARY  -----  -----  -----  -----
***** ***** TOP OF DATA *****
000001 T1      C      BLAU      19  Berlin
000002 T2      D      GELB      12  Hamburg
000003 T3      S      ROT       14  Stuttgart
000004 T4      S      BLAU      17  Berlin
000005 T5      B      ROT       17  Hamburg
000006 T6      N      BLAU      12  Berlin
***** ***** BOTTOM OF DATA *****
```

## Paralleles Editieren / Browsen – nach 2 Aufrufen

```

Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                           e
e   ----- Browse                DB2T 1 OF 3      XV8822D.TEIL                e
e   COMMAND ==>                               SCROLL ==> CSR                    e
e      TNR          TNAME          FARBE          GEWICHT  ORT                    e
e   *****      xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx TOP OF DATA xxxxxxxxxxxxxxxxxxxxxxx e
e   000001  T1          C             BLAU              19  Berlin                    e
e   000002  T2          D             GELB              12  Hamburg                    e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                           e
e   ----- Edit                  DB2T 2 OF 3      XV8822D.AUFTRAG            e
e   COMMAND ==>                               SCROLL ==> CSR                    e
e      LNR          TNR          PNR              MENGE                      e
e   *****      xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx TOP OF DATA xxxxxxxxxxxxxxxxxxxxxxx e
e   000001  L1          T1          P1              300                          e
e   000002  L1          T1          P4              800                          e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                           e
e   ----- Edit                  DB2T 3 OF 3      XV8822D.LIEFERANT            e
e   COMMAND ==>                               13 rows fetched e
e      LNR          LNAME          LSTATUS   ORT                    e
e   *****      xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx TOP OF DATA xxxxxxxxxxxxxxxxxxxxxxx e
e   000001  L1          NEUMANN          60  Berlin                    e
e   000002  L2          SCHMIDT          20  Hamburg                    e
e   000003  L3          KRAUSE          30  Hamburg                    e
    
```



## Paralleles Editieren / Browsen – verschiedene Modi

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- Browse DB2T 1 OF 3 XV8822D.TEIL e
e COMMAND ==> SCROLL ==> CSR e
e      TNR      TNAME      FARBE      GEWICHT  ORT e
e  *****  *****  *****  *****  *****  ***** e
e 000001 T1      C      BLAU      19 Berlin e
e 000002 T2      D      GELB      12 Hamburg e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- Edit DB2T 2 OF 3 XV8822D.AUFTRAG e
e COMMAND ==> SCROLL ==> CSR e
e      LNR      TNR      PNR      MENGE e
e  *****  *****  *****  *****  *****  ***** e
e 000001 L1      T1      P1      300 e
e 000002 L1      T1      P4      800 e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- Edit DB2T 3 OF 3 XV8822D.LIEFERANT e
e COMMAND ==> SCROLL ==> CSR e
e  COLUMN NAME      TYPE (LEN)  KEY  COLUMN VALUE      ROW 1 e
e 001 LNR      CHAR(6)    PRIM L1 e
e 002 LNAME      CHAR(15)   NEUMANN e
e 003 LSTATUS      SMALLINT  60 e
e 004 ORT      CHAR(15)   Berlin e
```



## Paralleles Editieren / Browsen – springen

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                               e
e   ----- Browse          DB2T 1 OF 3      XV8822D.TEIL                        e
e COMMAND ===>                                                     SCROLL ===> CSR  e
e           TNR           TNAME           FARBE           GEWICHT  ORT              e
e   *****   *****   *****   *****   *****   *****   *****   *****   e
e   000001  T1           C           BLAU           19  Berlin                      e
e   000002  T2           D           GELB           12  Hamburg                      e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                               e
e   ----- Edit           DB2T 2 OF 3      XV8822D.AUFTRAG                    e
e COMMAND ===>                                                     SCROLL ===> CSR  e
e           LNR           TNR           PNR           MENGE                      e
e   *****   *****   *****   *****   *****   *****   *****   *****   e
e   000001  L1           T1           P1           300                      e
e   000002  L1           T1           P4           800                      e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e   File Edit View Options Open Menu Utilities Help                               e
e   ----- Edit           DB2T 3 OF 3      XV8822D.LIEFERANT                    e
e COMMAND ===> j 2                                                     SCROLL ===> CSR  e
e   COLUMN NAME           TYPE (LEN)   KEY   COLUMN VALUE           ROW 1              e
e 001 LNR                 CHAR(6)    PRIM  L1                          e
e 002 LNAME               CHAR(15)              NEUMANN                      e
e 003 LSTATUS             SMALLINT   60                             e
e 004 ORT                 CHAR(15)              Berlin                        e
```



## Paralleles Editieren / Browsen – maximieren

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Browse DB2T 1 OF 3 XV8822D.TEIL e
e COMMAND ==> SCROLL ==> CSR e
e TNR TNAME FARBE GEWICHT ORT e
e ***** TOP OF DATA ***** e
e 000001 T1 C BLAU 19 Berlin e
e 000002 T2 D GELB 12 Hamburg e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Edit DB2T 2 OF 3 XV8822D.AUFTRAG e
e COMMAND ==> max SCROLL ==> CSR e
e LNR TNR PNR MENGE e
e 000008 L2 T3 P6 500 e
e 000009 L2 T3 P7 900 e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Edit DB2T 3 OF 3 XV8822D.LIEFERANT e
e COMMAND ==> SCROLL ==> CSR e
e COLUMN NAME TYPE (LEN) KEY COLUMN VALUE ROW 1 e
e 001 LNR CHAR(6) PRIM L1 e
e 002 LNAME CHAR(15) NEUMANN e
e 003 LSTATUS SMALLINT 60 e
e 004 ORT CHAR(15) Berlin e
```





## Paralleles Editieren / Browsen – minimieren

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- Edit DB2T 2 OF 3 XV8822D.AUFTRAG e
e  COMMAND ==> min SCROLL ==> CSR e
e      LNR TNR PNR MENGE e
e 000008 L2 T3 P6 500 e
e 000009 L2 T3 P7 900 e
e 000010 L2 T5 P2 200 e
e 000011 L3 T3 P1 300 e
e 000012 L3 T4 P2 600 e
e 000013 L4 T6 P3 400 e
e 000014 L4 T6 P7 400 e
e 000015 L5 T2 P2 300 e
e 000016 L5 T2 P4 100 e
e 000017 L5 T5 P5 500 e
e 000018 L5 T5 P7 100 e
e 000019 L5 T6 P2 200 e
e 000020 L5 T1 P4 100 e
e 000021 L5 T3 P4 200 e
e 000022 L5 T4 P4 800 e
e 000023 L5 T5 P4 400 e
e 000024 L5 T6 P4 500 e
e ***** ***** BOTTOM OF DATA ***** e
e e
e
```



## Paralleles Editieren / Browsen – Zoom

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Browse DB2T 1 OF 3 XV8822D.TEIL e
e COMMAND ==> SCROLL ==> CSR e
e TNR TNAME FARBE GEWICHT ORT e
e ***** TOP OF DATA ***** e
e 000001 T1 C BLAU 19 Berlin e
e 000002 T2 D GELB 12 Hamburg e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Edit DB2T 2 OF 3 XV8822D.AUFTRAG e
e COMMAND ==> zoom pnr SCROLL ==> CSR e
e LNR TNR PNR MENGE e
e 000008 L2 T3 P6 500 e
e 000009 L2 T3 P7 900 e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e File Edit View Options Open Menu Utilities Help e
e ----- Edit DB2T 3 OF 3 XV8822D.LIEFERANT e
e COMMAND ==> SCROLL ==> CSR e
e COLUMN NAME TYPE (LEN) KEY COLUMN VALUE ROW 1 e
e 001 LNR CHAR(6) PRIM L1 e
e 002 LNAME CHAR(15) NEUMANN e
e 003 LSTATUS SMALLINT 60 e
e 004 ORT CHAR(15) Berlin e
```

## Paralleles Editieren / Browsen – Zoom – Ergebnis

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- Browse DB2T 1 OF 3 XV8822D.TEIL e
e COMMAND ==> SCROLL ==> CSR e
e      TNR      TNAME      FARBE      GEWICHT  ORT e
e ***** ***** TOP OF DATA ***** e
e 000001 T1 C BLAU 19 Berlin e
e 000002 T2 D GELB 12 Hamburg e
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 sxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e      Edit DB2T 2 OF 3 XV8822D.AUFTRAG e
e COMMAND ==> end SCROLL ==> CSR e
e COLUMN NAME: PNR DATA TYPE: CHAR(5) PRIMARY e
e e
e KEY/INDX: L2 T3 P6 e
e -----+ e
e 000008 P6 e
e 5 e
e e
e KEY/INDX: L2 T3 P7 e
e -----+ e
e 000009 P7 e
e 5 e
e e
e KEY/INDX: L2 T5 P2 e
e -----+ e
e 000010 P2 e
e 5 e
```



# Edit und Browse

## related Edit / related Browse – Einstieg

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.TEIL SSID: DB2T
COMMAND ==> re rb SCROLL ==> CSR
      TNR      TNAME      FARBE      GEWICHT  ORT
      CHAR(5)  CHAR(8)   CHAR(7)   SMALLINT CHAR(15)
      PRIMARY  -----  -----  -----  -----
***** ***** TOP OF DATA *****
000001 T1      C      BLAU      19 Berlin
000002 T2      D      GELB      12 Hamburg
000003 T3      S      ROT       14 Stuttgart
000004 T4      S      BLAU      17 Berlin
000005 T5      B      ROT       17 Hamburg
000006 T6      N      BLAU      12 Berlin
***** ***** BOTTOM OF DATA *****
```

## related Edit / related Browse – Anzeige der Relation(en)

```
File Edit View Options Open Menu Utilities Help
-----
F Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx Related Table List xxxxxxxxxxxxxxxxxxxxxxxxxxxN
C e                                     Row 1 to 1 of 1 e
e COMMAND ==>                                                                    e
e                                                                    e
e A one to one or one to many relationship exists.                               e
e Use ADD to create a new application relationship or select an existing e
e relationship definition.                                                       e
e To edit a view: overtyp e displayed table name with a valid single table e
e view name.                                                                     e
e                                                                    e
e Line Commands:                                                                  e
e S - Select table                                                                e
e I - Relationship Information                                                    e
e                                                                    e
e CMD Creator Table/View Type                                                    e
e --- -----                                                                    e
e  s  XV8822D  AUFTRAG  RI - CHILD                                                e
e ***** Bottom of data *****                                              e
e                                                                    e
e                                                                    e
e                                                                    e
e                                                                    e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
```

## related Edit / related Browse – Ergebnis / Jump

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- RBROWSE          DB2T  1 OF 2      XV8822D.TEIL e
e  COMMAND ===>                               SCROLL ===> CSR e
e           TNR           TNAME           FARBE           GEWICHT  ORT e
e  000003  T3            S              ROT              14  Stuttgart e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx File-AID for DB2 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxN
e  File Edit View Options Open Menu Utilities Help e
e  ----- REDIT           DB2T  2 OF 2      XV8822D.AUFTRAG e
e  COMMAND ===> j                               24 rows fetched e
e           LNR           TNR           PNR           MENGE e
e  ***** ***** TOP OF DATA ***** e
e  000001  L1            T1            P1            300 e
e  000002  L1            T1            P4            800 e
e  000003  L2            T3            P1            500 e
e  000004  L2            T3            P2            300 e
e  000005  L2            T3            P3            300 e
e  000006  L2            T3            P4            600 e
e  000007  L2            T3            P5            700 e
e  000008  L2            T3            P6            500 e
e  000009  L2            T3            P7            900 e
e  000010  L2            T5            P2            200 e
e  000011  L3            T3            P1            300 e
e  000012  L3            T4            P2            600 e
e  000013  L4            T6            P3            400 e
```



# Edit und Browse



## related Edit / related Browse – Einstieg – 2

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.AUFTRAG SSID: DB2T
COMMAND ==> re SCROLL ==> CSR

      LNR      TNR      PNR      MENGE
      CHAR(6)  CHAR(5)  CHAR(5)  INTEGER
      PRIMARY  PRIMARY  PRIMARY  -----
*****  ***** TOP OF DATA *****
000001  L1      T1      P1      300
000002  L1      T1      P4      800
000003  L2      T3      P1      500
000004  L2      T3      P2      300
000005  L2      T3      P3      300
000006  L2      T3      P4      600
000007  L2      T3      P5      700
000008  L2      T3      P6      500
000009  L2      T3      P7      900
000010  L2      T5      P2      200
000011  L3      T3      P1      300
000012  L3      T4      P2      600
000013  L4      T6      P3      400
000014  L4      T6      P7      400
000015  L5      T2      P2      300
000016  L5      T2      P4      100
000017  L5      T5      P5      500
000018  L5      T5      P7      100
000019  L5      T6      P2      200
```

## related Edit / related Browse – Anzeige der Relation(en) – 2

```
File Edit View Options Open Menu Utilities Help
-----
F Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx Related Table List xxxxxxxxxxxxxxxxxxxxxxxxxxxN
C e
e COMMAND ==>
e
e A one to one or one to many relationship exists.
e Use ADD to create a new application relationship or select an existing
e relationship definition.
e To edit a view: overtyp e displayed table name with a valid single table
e view name.
e
e Line Commands:
e S - Select table
e I - Relationship Information
e
e CMD Creator Table/View Type
e ----
e _ XV8822D LIEFERANT RI - PARENT
e _ XV8822D TEIL RI - PARENT
e ***** Bottom of data *****
e
e
e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
000018 L5 T5 P7 100
000019 L5 T6 P2 200
```





## weitere interessante Befehle – primary commands

---

- cut / paste
- del(ete)
- up / down / top / bot(tom) / left / right / l(oc)
- n(ext) / p(rev)
- x (exclude) / x all / flip
- f(ind) / c(hange) / rfind / rchange
- hex / rowh / zoom / zoomh
- hide / hold / reset
- ins(ert)
- row / tab(le)



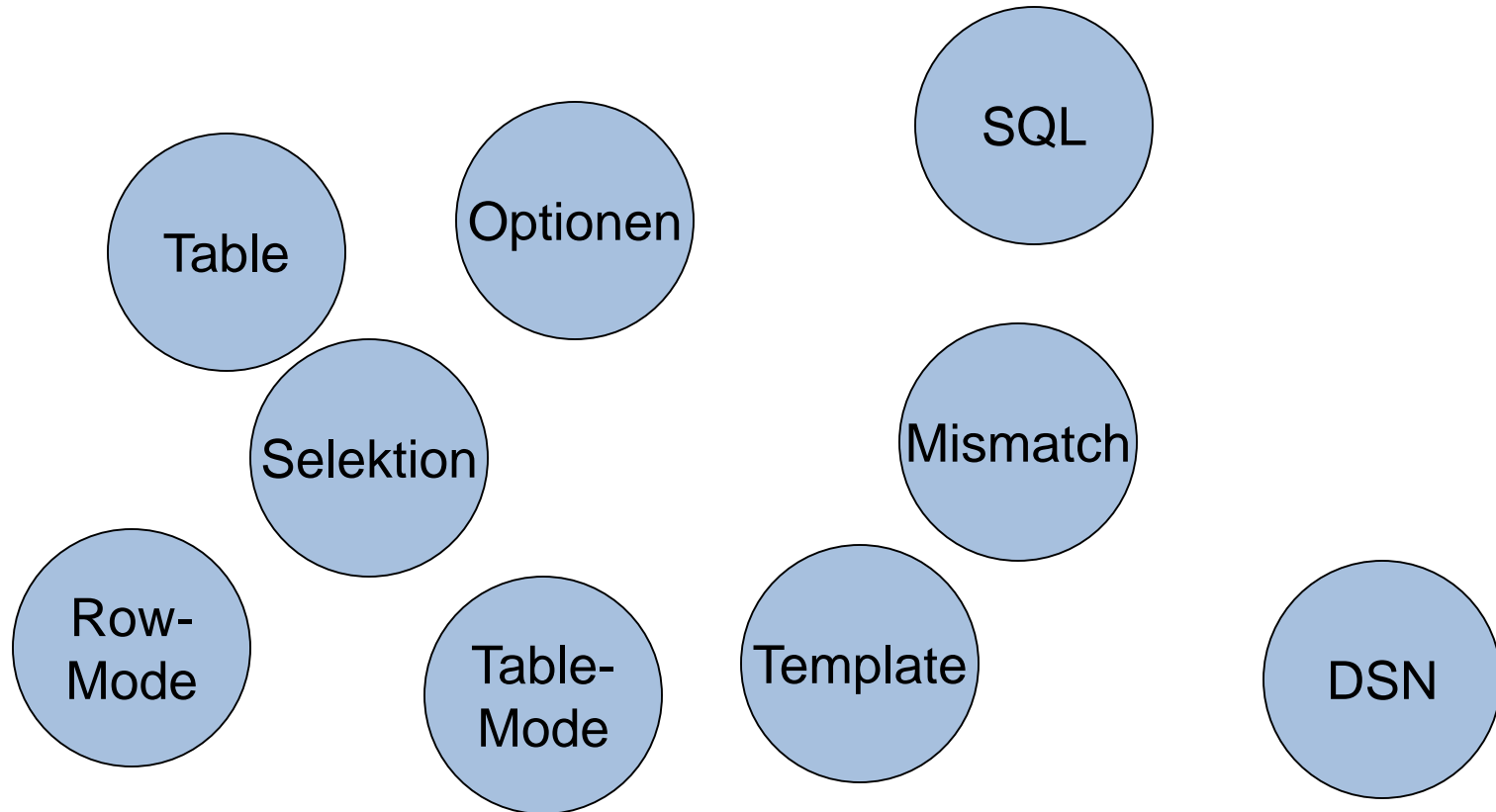
## weitere interessante Befehle – line commands

---

- A / B
- C / CC / M/ MM
- D/ Dn / DD
- I / In
- R / Rn / RR
- RI (im Feld angeben)
- X / Xn / XX / S / Sn



- 
- Einführung
  - Einstieg und Überblick
  - Edit und Browse
  - • Kopieren Tabellen
  - Laden und Entladen Tabellen
  - Drucken Tabellen
  - Selektionskriterien



- Tabelle zu Tabelle
- Feldmatching
  - Felder mit unterschiedlichen Namen
  - unterschiedliche Feldlänge
  - unterschiedliche numerische Felddefinition
- (fast) alles ist möglich
- Selectionen
- Anzahl begrenzen

# Kopieren Tabellen

## Einstieg aus Primary Menü

File-AID for DB2 - 4.9 ----- Primary Option Menu -----

OPTION ==> 3

0	DEFAULTS and USER PARMS	USERID	-	XV8822D
1	BROWSE	TIME	-	21:58
2	EDIT	TERMINAL	-	3278
3	UTILITIES	PF KEYS	-	24
3.2	- Create, Drop, Alter DB2 Objects	DB2 SSID	==>	DB2T
3.3	- Copy Rows Between Tables			
3.4	- Object List Processing			
3.5	- SQL Command Manager			
3.6	- Display, Grant, Revoke or Modify DB2 Privileges			
3.7	- Extract and Load Tables			
3.8	- DBA-XPERT Column Impact Analysis			
3.9	- Batch Execute SQL with Auto-COMMIT Processing			
4	SQL ANALYSIS - SQL Development and Analysis			
5	PRINT - Print table Data or Audit Trail			
6	RELATIONSHIPS - Relationship Facilitator			
R	File-AID/RDX - Transfer to File-AID/Related Data XPERT			
XT	XPEDITER - Transfer to XPEDITER			
T	TUTORIAL - Display information about File-AID for DB2			
C	CHANGES - Display summary of File-AID for DB2 changes			
X	EXIT - Exit File-AID for DB2			

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# Kopieren Tabellen

## Einstieg aus Utilities Menü

```
File-AID for DB2 ----- Utility Selection Menu -----
OPTION ==> 3                                         SSID ==> DB2T

 1 OBJECT ADMIN      - Object Administration
 2 OBJECTS           - Create, Model, Drop, Alter
                     TABLE, TABLESPACE, INDEX, VIEW, SYNONYM, ALIAS,
                     DISTINCT TYPE, USER DEFINED FUNCTION,
                     STORED PROCEDURE, TRIGGER, MATERIALIZED QUERY TABLE
 3 COPY              - COPY Rows Between TABLES
                     Copy Entire TABLES or Rows/Columns Selectively
 4 OBJECT LIST       - Process DB2 Object Lists
 5 SQL MGR           - SQL Command Manager / SPUFI Connection
 6 PRIVILEGES        - Display, Grant or Revoke DB2 Privileges
 7 EXTRACT,LOAD      - Extract and Load Tables
 8 IMPACT ANALYSIS   - Identify DB2 objects affected by a column change
 9 BATCH FACILITY    - Batch Execute SQL with Auto-COMMIT Processing
```

# Kopieren Tabellen

## Details zum Kopieren

```
File-AID for DB2 ----- Table Copy Selection -----
COMMAND ==>
                                Scroll ==> CSR
                                SSID ==> DB2T

Specify Table Copy Option:
Specify Option ==>
                                Blank - Full Table Copy
                                T - Use a Selection Template
                                S - Use SQL for Selection (SPUFI)

                                From Table
                                -----
Creator      ==> XV8822D
Table Name  ==> AUFTRAG

                                To Table
                                -----
Location    ==>
Creator     ==> XV12345
Table Name  ==> AUFTRAG

Maximum Rows To Select ==> *      (* for all rows)
Column Selection      ==> NO      (Yes or No, ignored for S option)
Delete Existing Rows  ==> NO      (Yes or No)
Column Name Matching  ==> YES     (Yes or No, ignored for S option)
Discard Limit         ==> 0
Use Uncommitted Read  ==> YES     (Yes or No)
```

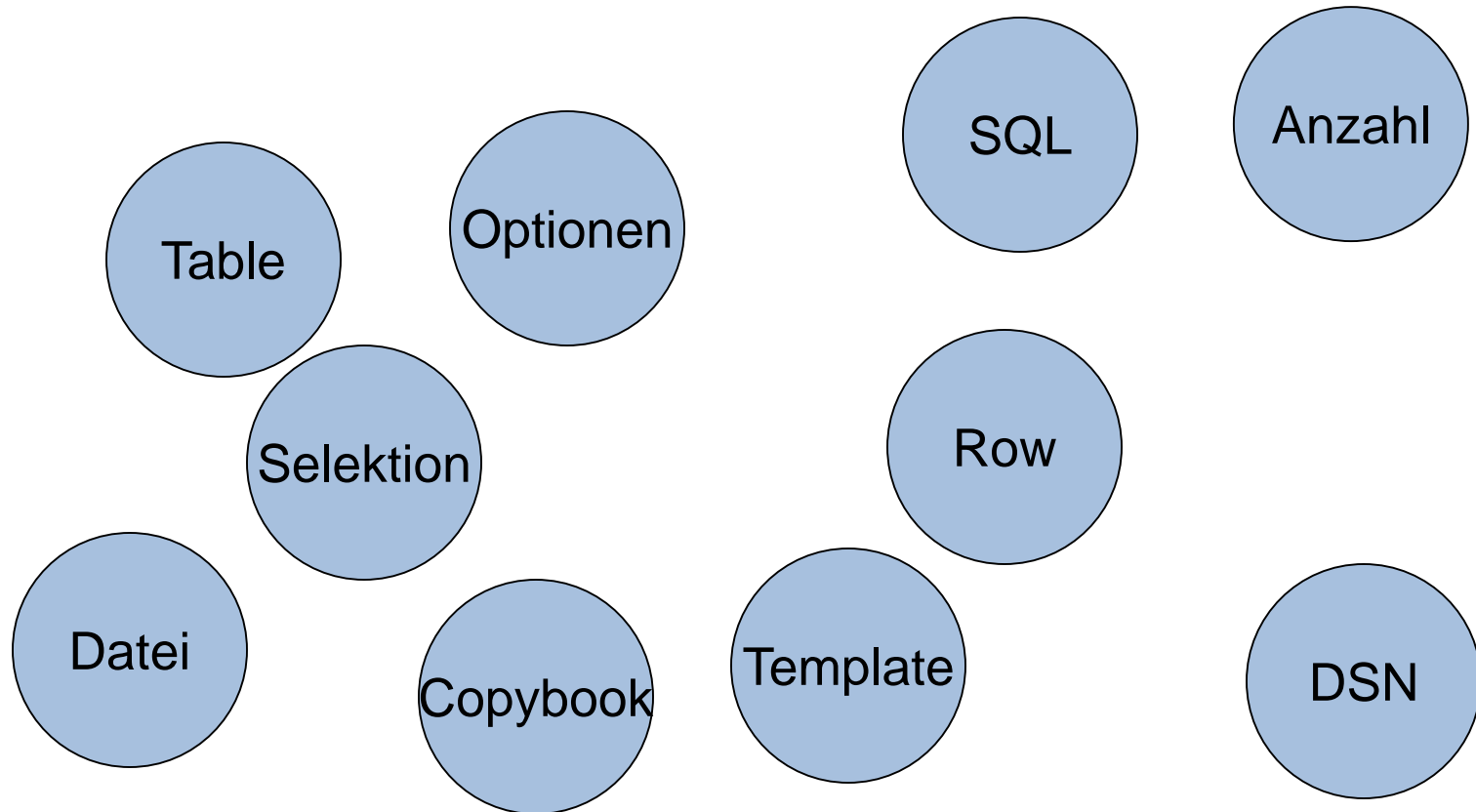




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  - Drucken Tabellen
  - Selektionskriterien

## Begriffe

---



## Möglichkeiten und Grenzen

---

- bei Rxxx / Cxxx normalerweise nicht gewollt (es ist aber so einfach, sich auf diese Weise Sicherungen anzulegen) ;-)
- Erstellen Ladebestand
- Erstellen Copybook möglich (COBOL / PL1)
- Laden aus Ladebestand
- analoge Vorgehensweisen für alle 3 Funktionen

## Einstieg aus Primary Menü

File-AID for DB2 - 4.9 ----- Primary Option Menu -----

OPTION ==> 3

0	DEFAULTS and USER PARMS	USERID	-	XV8822D
1	BROWSE	TIME	-	21:58
2	EDIT	TERMINAL	-	3278
3	UTILITIES	PF KEYS	-	24
3.2	- Create, Drop, Alter DB2 Objects	DB2 SSID	==>	DB2T
3.3	- Copy Rows Between Tables			
3.4	- Object List Processing			
3.5	- SQL Command Manager			
3.6	- Display, Grant, Revoke or Modify DB2 Privileges			
3.7	- Extract and Load Tables			
3.8	- DBA-XPERT Column Impact Analysis			
3.9	- Batch Execute SQL with Auto-COMMIT Processing			
4	SQL ANALYSIS - SQL Development and Analysis			
5	PRINT - Print table Data or Audit Trail			
6	RELATIONSHIPS - Relationship Facilitator			
R	File-AID/RDX - Transfer to File-AID/Related Data XPERT			
XT	XPEDITER - Transfer to XPEDITER			
T	TUTORIAL - Display information about File-AID for DB2			
C	CHANGES - Display summary of File-AID for DB2 changes			
X	EXIT - Exit File-AID for DB2			

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# Laden und Entladen Tabellen

## Einstieg aus Utilities Menü

```
File-AID for DB2 ----- Utility Selection Menu -----
OPTION ==>> 7                                             SSID ==>> DB2T

 1 OBJECT ADMIN      - Object Administration
 2 OBJECTS           - Create, Model, Drop, Alter
                     TABLE, TABLESPACE, INDEX, VIEW, SYNONYM, ALIAS,
                     DISTINCT TYPE, USER DEFINED FUNCTION,
                     STORED PROCEDURE, TRIGGER, MATERIALIZED QUERY TABLE
 3 COPY              - COPY Rows Between TABLES
                     Copy Entire TABLES or Rows/Columns Selectively
 4 OBJECT LIST       - Process DB2 Object Lists
 5 SQL MGR           - SQL Command Manager / SPUFI Connection
 6 PRIVILEGES        - Display, Grant or Revoke DB2 Privileges
 7 EXTRACT,LOAD      - Extract and Load Tables
 8 IMPACT ANALYSIS   - Identify DB2 objects affected by a column change
 9 BATCH FACILITY    - Batch Execute SQL with Auto-COMMIT Processing
```

# Laden und Entladen Tabellen

## Extract/Load Menu

```
File-AID for DB2 ----- Extract/Load Menu -----  
OPTION ==> 1 SSID ==> DB2T
```

- 1 - Extract from a Table to a dataset
- 2 - Load from a dataset to a Table
- 3 - Extract and Load

# Laden und Entladen Tabellen

## Extract Options

```
File-AID for DB2 ----- Extract Options -----
COMMAND ==>
                                         SCROLL ==> CSR
                                         SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> AUFTRAG
Optional:
  Database     ==>
  Tablespace   ==>

Specify Extract Template Information:
  Use Existing Criteria ==> NO      (Yes or No)
  Edit Criteria Dataset ==> FADB2.SELCRIT
  Member        ==>                (Blank or Pattern for list)

Specify Extract Options:
  Processing Mode      ==> 1          (1 = Online, 2 = Batch)
  Formatted Print Report ==> NO      (Yes or No)
  Maximum Rows to Select ==> 200     (* for all rows)
  Extract Null Indicators ==> YES    (Yes or No)
  Use Uncommitted Read ==> YES      (Yes or No)
```

## Angabe Dateinamen

File-AID for DB2 - Extract table XV8822D.AUFTRAG

COMMAND ==>

Scroll ==> CSR

SSID: DB2T

Specify Extract Dataset Format:

EXTRACT Dataset format ==> 1 (1 = Standard, 2 = Delimited)

Change Delimited Options ==> NO (Yes or No)

Specify Output Datasets:

EXTRACT Dataset ==> 'XV8822D.\*.UNLOAD'

Member ==> (\* for member list)

Control Card Dataset ==> 'XV8822D.\*.CTRL'

Member ==> (\* for member list)

Create Layout File ==> NO (Yes or No)

Layout Dataset ==> 'XV8822D.\*.COBOL'

Member ==> (\* for member list)

Language ==> (1 = COBOL, 2 = PL/I)

An asterisk (\*) in the above Dataset names will be replaced with:

Qualifier ==> AUFTRAG



# Laden und Entladen Tabellen

## Dateidefinition (kommt für jede neue Datei)

```
File-AID for DB2 ----- EXTRACT Dataset Allocation -----  
COMMAND ==>
```

Specify the EXTRACT Dataset attributes, then press ENTER

```
EXTRACT Dataset Name ==> 'XV8822D.AUFTRAG.UNLOAD'  
Member ==>  
  
Volume Serial ==> (Blank for authorized default volume) *  
Generic Unit ==> SYSDA (Generic group name or unit address) *  
SPACE UNITS ==> TRACKS (BLKS, TRKS, or CYLS)  
Primary Quantity ==> 5 (In above units)  
Secondary Quantity ==> 5 (In above units)  
Directory BLOCKS ==> 0 (Zero for sequential dataset)  
Record Format : FB  
Record Length : 22  
Block Size ==> 0
```

( \* One of these fields must be specified )

# Laden und Entladen Tabellen

## Bestätigung

```
File-AID for DB2 ----- Extract Confirmation -----
COMMAND ==>                               Scroll ==> CSR
                                           SSID: DB2T

Table Name: XV8822D.AUFTRAG

Output Extract Dataset Format: Standard

Output Extract Dataset                      Status
-----
'XV8822D.AUFTRAG.UNLOAD'                   NEW

Output Control Card Dataset                Status
-----
'XV8822D.AUFTRAG.CTRL'                     NEW

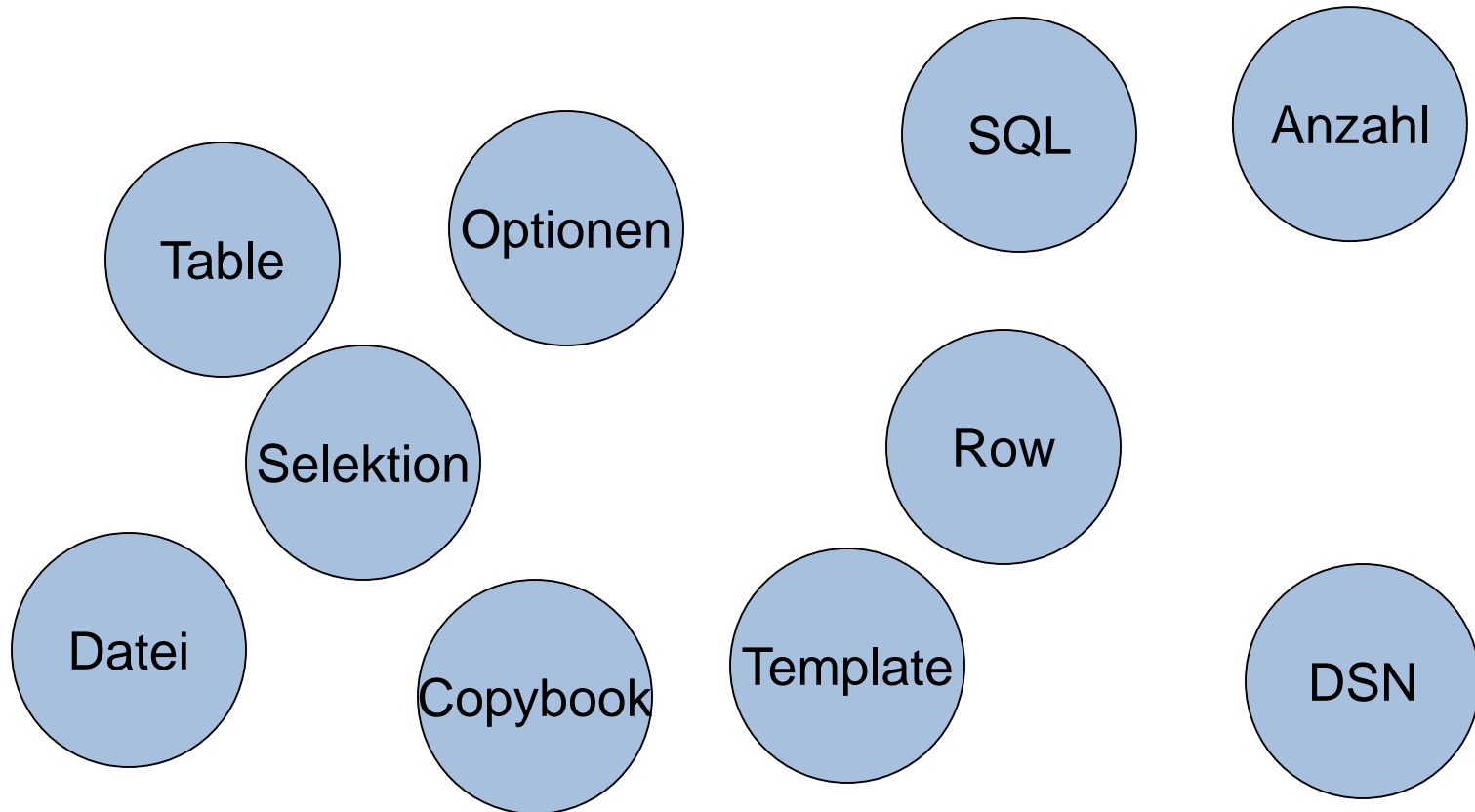
Output Layout Dataset                      Status
-----

Press ENTER to execute the Online Extract; End to cancel
```

FDBA677 24 records were successfully extracted



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## Print Menü

```
File-AID for DB2 ----- Print Menu -----  
OPTION ==> 1  
SSID ==> DB2T  
  
1 - Print table Data
```

-> sind in den Print Options 0.7 die Datei-Angaben richtig gesetzt?

## Print Options

```
File-AID for DB2 ----- Print Options -----
COMMAND ==>
                                         SCROLL ==> CSR
                                         SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> AUFTRAG
  Optional:
  Database     ==>
  Tablespace  ==>

Specify Extract Template Information:
  Use Existing Criteria ==> NO      (Yes or No)
  Edit Criteria Dataset ==> FADB2.SELCRIT
  Member          ==>              (Blank or Pattern for list)

Specify Extract Options:
  Print Mode          ==> 1          (1 - Table, Multiple rows per screen
                                     2 - Row, one row per screen)
  Maximum Rows to Select ==> 200    (* for all rows)
```

## Print Selection Template bei Mismatch

---

```
File-AID for DB2 ----- PRINTP Selection Template ---- From tables don't match  
COMMAND ==>                                SCROLL ==> PAGE  
                                                SSID: DSN
```

```
Use SQL to view/edit the SQL source for USERID.TABLENAME
```

```
Save Edit Criteria Information:
```

```
  Save Existing Criteria ==> NO          (Yes or No)
```

```
  Edit Criteria Dataset  ==> PRINT.SQL
```

```
  Member                 ==>
```

```
Max Rows to Select ==> 2000
```

```
SEL  COLUMN NAME          TYPE(LEN)          ORDER (A/D)  WHERE                More: >  
---  -  
-----+-----10-----+-----20-----
```

```
The existing selection criteria cannot be displayed in this format or  
is in error. To view or edit the criteria enter the SQL command. To  
use the criteria enter the EXECUTE command.
```

```
F18=EXECUTE
```

## SQL Entry Panel

---

```
File-AID for DB2 ----- SQL ENTRY PANEL ----- SSID: DSN  
COMMAND ==>
```

```
Specify the input dataset name:          (Can be sequential or partitioned)  
1  DATASET NAME ... ==> PRINT.SQL(MYSELECT)  
2  VOLUME SERIAL ... ==>                (Enter if not cataloged)  
3  DATASET PASSWORD ==>                 (Enter if password protected)  
4  MAX SELECT ROWS . ==> 2000           (Maximum number of rows to be  
                                         returned from a SELECT)  
5  EDIT INPUT ..... ==> YES            (YES to edit dataset,  
                                         NO to execute SQL immediately)
```



## Print Output Spezifikation

File-AID for DB2 ----- Table Print Output Specification -----

COMMAND ==>

Select Printer Destination or Dataset then press ENTER

\_ TO PRINTER

Printer Destination ==>

Sysout Class ==>

s TO DATASET

Report Dataset Name ==> FADB2.PRINT

Volume Serial ==>

## generierter Job – submitten

```
EDIT ---- XV8822D.SPFTEMP1.CNTL ----- Columns 001 072
COMMAND ==> sub                               SCROLL ==> PAGE
***** Top of Data *****
=NOTE=
=NOTE= YOU ARE EDITING A TEMPORARY DATASET THAT FILE AID FOR DB2
=NOTE= HAS GENERATED. THIS DATASET WILL BE DELETED WHEN YOU EXIT
=NOTE= THIS PANEL. IF YOU WANT THIS DATA SAVED, YOU MUST USE THE
=NOTE= ISPF CREATE OR COPY COMMAND BEFORE YOU EXIT THIS PANEL.
=NOTE=
==MSG> -Warning- The UNDO command is not available until you change
==MSG> your edit profile using the command RECOVERY ON.
000001 //XV8822DF JOB '1N289003010200100000','R.SEIDLER AL34-188',
000002 // CLASS=S,MSGCLASS=Y,
000003 // TIME=1440,REGION=0M,NOTIFY=&SYSUID
000004 //*MAIN ROOM=AL34-388
000005 //*-----
000006 //UTIL EXEC PGM=IKJEFT01,DYNAMNBR=80,REGION=8192K,COND=(7,LT)
000007 //*-----

JOB XV8822DF(JOB07663) SUBMITTED
***

IAT6108 JOB XV8822DF (JOB07663) ENDED, MAXCC=0000 CN (INTERNAL)
***
```

## Beispielausgabe Table-Mode

```
Menu Utilities Compilers Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
BROWSE      XV8822D.FADB2.PRINT                      Line 00000000 Col 001 080
Command ==>                                         Scroll ==> CSR
***** Top of Data *****
File-AID for DB2 4.9.0.23                            TABLE PRINT REPORT
                                                    DETAIL TABLE DATA

DB2 SUBSYSTEM: DB2T
DB2 LOCATION:
TABLE/VIEW: XV8822D.AUFTRAG

  ROW      LNR      TNR      PNR      MENGE
  SEQ NO   CHAR (6)  CHAR (5)  CHAR (5)  INTEGER
  -----  -
  1      L1      T1      P1      300
  2      L1      T1      P4      800
  3      L2      T3      P1      500
  4      L2      T3      P2      300
  5      L2      T3      P3      300
  6      L2      T3      P4      600
  7      L2      T3      P5      700
  . . .
```

## Beispielausgabe Row-Mode

```
Menu Utilities Compilers Help
ssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssssss
BROWSE      XV8822D.FADB2.PRINT      Line 00000000 Col 001 080
Command ==>                                     Scroll ==> CSR
***** Top of Data *****
File-AID for DB2 4.9.0.23             TABLE PRINT REPORT
                                     DETAIL TABLE DATA

      DB2 SUBSYSTEM: DB2T
      DB2 LOCATION:
      TABLE/VIEW: XV8822D.AUFTRAG

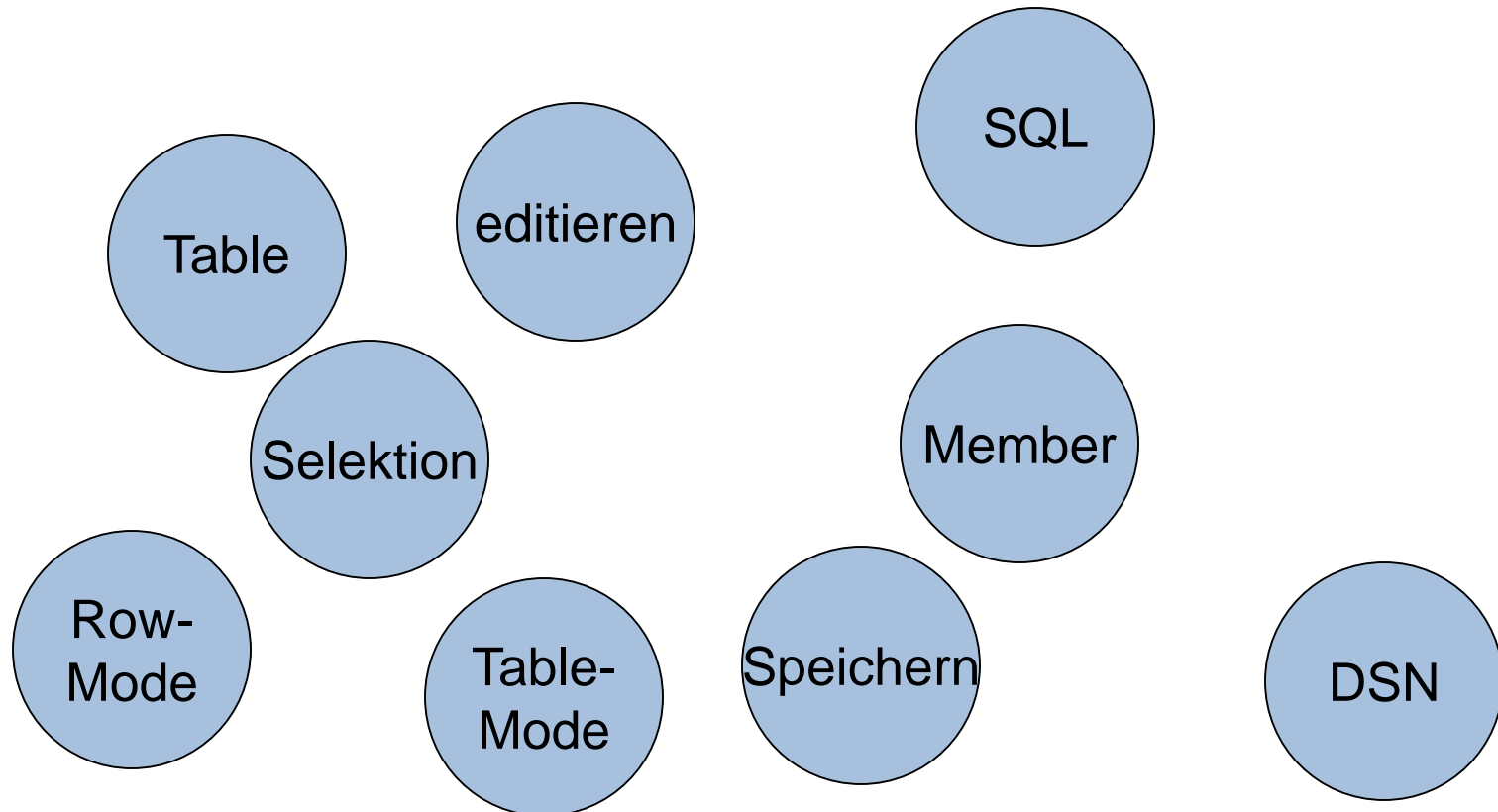
ROW SEQ NO:  1

-----COLUMN NAME-----  ---FORMAT---  -KEY-
LNR                     CHAR(6)      PRIM   L1
TNR                     CHAR(5)      PRIM   T1
PNR                     CHAR(5)      PRIM   P1
MENGE                   INTEGER        300

*** END OF ROW ***
```



- 
- Einführung
  - Einstieg und Überblick
  - Edit und Browse
  - Kopieren Tabellen
  - Laden und Entladen Tabellen
  - Drucken Tabellen
  - • Selektionskriterien



- die Benutzung der Selektionskriterien ist sehr gewöhnungsbedürftig
- Speicherung eingegebener SQLs unplausibel
- Aufruf der SQLs intransparent
- die Datei muss über ISPF (3.2) angelegt werden
- Selektionskriterien sind (fast) überall in dem Tool benutzbar
- die Logik der Benutzung ist überall gleich
- SQLs können beliebig komplex sein

## Einstieg z.B. browse

```
File-AID for DB2 ----- Browse Options -----
COMMAND ==>
                                                    SCROLL ==> CSR
                                                    SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> AUFTRAG
  Optional:
  Database     ==>
  Tablespace   ==>

Specify Edit Template Information:
  Use Existing Criteria ==> YES      (Yes or No)
  Edit Criteria Dataset ==> FADB2.SELCRIT
  Member          ==>              (Blank or Pattern for list)

Specify Browse Options:
  Initial Display Mode ==> 1          (1 - Table, Multiple rows per screen
                                     2 - Row, One row per screen)
  Use Uncommitted Read ==> YES      (Yes or No)
  Maximum Rows To Select ==> 200    (* for all rows)
  Relationship File    ==> 'T84VSM.DB2T.FADB2.RELATE'
```



## Auswahl Membername

```
File-AID for DB2 ----- Selection Criteria - FADB2.SELCRIT -- Row 1 to 3 of 3
COMMAND ==>                                     SCROLL ==> CSR

Sel  Member Name
---  -----
  s  AUFTR#L1
  -  BSP19
  -  ZWIDB01
***** Bottom of data *****
```

## Selection Template

```
File-AID for DB2 ----- BROWSE Selection Template ----- Row 1 to 4 of 4
COMMAND ==>
SCROLL ==> CSR
SSID: DB2T
```

Use EXEC to continue

Use SQL to view/edit the SQL source for XV8822D.AUFTRAG

Save Edit Criteria Information:

Save Template Criteria On Execute ==> NO (Yes or No)

Criteria Dataset Name ==> FADB2.SELCRIT

Member ==> AUFTR#L1

Max Rows to Select ==> 200 (\* = ALL ROWS)

```
SEL COLUMN NAME          TYPE (LEN)          ORDER (A/D) WHERE          More: >
-----1-----2-----+
___ LNR                   CHAR (6)           = 'L1'
___ TNR                   CHAR (5)
___ PNR                   CHAR (5)
___ MENGE                 INTEGER
```

\*\*\*\*\* Bottom of data \*\*\*\*\*

## Ergebnis

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.AUFTRAG          2 rows fetched
COMMAND ==>                                       SCROLL ==> CSR

      LNR      TNR      PNR      MENGE
      CHAR(6)  CHAR(5)  CHAR(5)  INTEGER
      PRIMARY  PRIMARY  PRIMARY  -----
***** ***** TOP OF DATA *****
000001 L1      T1      P1      300
000002 L1      T1      P4      800
***** ***** BOTTOM OF DATA *****
```



## Änderung des SQL

```
File-AID for DB2 ----- BROWSE Selection Template ----- Row 1 to 4 of 4  
COMMAND ==> sql                                SCROLL ==> CSR  
                                               SSID: DB2T
```

Use EXEC to continue

Use SQL to view/edit the SQL source for XV8822D.AUFTRAG

Save Edit Criteria Information:

Save Template Criteria On Execute ==> yes (Yes or No)

Criteria Dataset Name ==> FADB2.SELCRIT

Member ==> AUFTR#L1

Max Rows to Select ==> 200 (\* = ALL ROWS)

```
SEL  COLUMN NAME      TYPE (LEN)      ORDER (A/D)  WHERE           More: >  
---  -1-----1-----2-----+  
____ LNR                CHAR (6)       = 'L1'  
____ TNR                CHAR (5)  
____ PNR                CHAR (5)  
____ MENGE             INTEGER  
***** Bottom of data *****
```

## Nachfrage . . .

---

```
File-AID for DB2 ----- Execute SQL Confirmation -----
```

```
COMMAND ==>
```

```
Changes have been made to the generated SQL
```

```
  Please note that executing the modified SQL may not result in  
  matching changes to the control card dataset.
```

```
Execute modified SQL ? ==> YES   (YES/NO)
```

```
  Use YES to execute the modified SQL
```

```
  NO   to return to prior panel without executing
```

## Ergebnis

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2 Browse XV8822D.AUFTRAG 10 rows fetched
COMMAND ==> SCROLL ==> CSR

      LNR      TNR      PNR      MENGE
      CHAR(6)  CHAR(5)  CHAR(5)  INTEGER
      PRIMARY  PRIMARY  PRIMARY  -----
***** ***** TOP OF DATA *****
000001 L1      T1      P1      300
000002 L1      T1      P4      800
000003 L2      T3      P1      500
000004 L2      T3      P2      300
000005 L2      T3      P3      300
000006 L2      T3      P4      600
000007 L2      T3      P5      700
000008 L2      T3      P6      500
000009 L2      T3      P7      900
000010 L2      T5      P2      200
***** ***** BOTTOM OF DATA *****
```



# Selektionskriterien

aber keine Speicherung des SQL ☹

```
EDIT ---- XV8822D.FAIDDB2.SOURCE (SHOWSQL) - 01.00 ----- Columns 001 072
COMMAND ==>                                     SCROLL ==> PAGE
***** ***** Top of Data *****
000001      SELECT LNR, TNR, PNR, MENGE
000002      FROM XV8822D.AUFTRAG
000003      WHERE LNR = 'L1'
000004      WITH UR
000005      FETCH FIRST 200 ROWS ONLY;
***** ***** Bottom of Data *****
```



## Join über mehrere Tabellen – Einstieg

```
File-AID for DB2 ----- Browse Options -----
COMMAND ==>
                                                    SCROLL ==> CSR
                                                    SSID ==> DB2T

Specify DB2 Table (* or pattern for list)
  Location ID ==>
  Creator      ==> XV8822D
  Table Name   ==> AUFTRAG
  Optional:
  Database     ==>
  Tablespace   ==>

Specify Edit Template Information:
  Use Existing Criteria ==> YES      (Yes or No)
  Edit Criteria Dataset ==> FADB2.SELCRIT
  Member          ==> BSP19      (Blank or Pattern for list)

Specify Browse Options:
  Initial Display Mode ==> 1      (1 - Table, Multiple rows per screen
                                   2 - Row, One row per screen)
  Use Uncommitted Read ==> YES    (Yes or No)
  Maximum Rows To Select ==> 200  (* for all rows)
  Relationship File    ==> 'T84VSM.DB2T.FADB2.RELATE'
```



## Join über mehrere Tabellen – Nachfrage

```
Esxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx SQL Warning xxxxxxxxxxxxxxxxxxxxxxxxxxxN
e
e           Template not Prefilled e
e Warning:
e   The Selection Template could not be
e   populated using existing criteria.
e
e Select a processing option:
e
e Option ==> 2
e   1 Execute SQL
e   2 Edit SQL
e   3 Cancel
e
e Show this warning in the future ==> Y (Y/N)
e
e (Option 0.1 can be used to reset the warning.)
e
DxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxM
```

## Join über mehrere Tabellen – Anzeige / Edit SQL

```
EDIT ---- XV8822D.FADB2.SELCRIT(BSP19) - 01.00 ----- Columns 001 072
COMMAND ==>
SCROLL ==> PAGE
***** Top of Data *****
000001 -- Kombiniere die Daten aus den Tabellen L und T, bei denen der Ort
000002 -- des Lieferanten gleich dem Ort des Teilelagers ist.
000003 -- Zusaetzlich sollen die Zeilen aus T ausgegeben werden, die
000004 -- keine Uebereinstimmung in L haben.
000005 -- *****
000006 --
000007 SELECT *
000008 FROM LIEFERANT RIGHT OUTER JOIN TEIL
000009 ON LIEFERANT.ORT = TEIL.ORT
000010 WITH UR
000011 ;
000012 --
***** Bottom of Data *****
```

## Join über mehrere Tabellen – SQL Entry Panel

File-AID for DB2 ----- SQL Entry Panel ----- SSID: DB2T

COMMAND ==>

Specify the input dataset name: (Can be sequential or partitioned)

- 1 DATASET NAME ==> FADB2.SELCRIT(BSP19)
- 2 VOLUME SERIAL ==> (Enter if not cataloged)
- 3 DATASET PASSWORD ==> (Enter if password protected)
- 4 MAX SELECT ROWS ==> 200 (Maximum number of rows to be returned from a SELECT)
- 5 EDIT INPUT ==> \* (YES to edit dataset, NO to execute SQL immediately)

FDBA045 Input file was not changed. Press enter to execute SQL statement

## Join über mehrere Tabellen – Ergebnis

```
File Edit View Options Open Menu Utilities Help
-----
File-AID for DB2  Browse  XV8822D.*JOINTABLE*          11 rows fetched
COMMAND ==>>
                LNR      LNAME          LSTATUS  ORT          TNR      TNAME
                CHAR(6)  CHAR(15)       SMALLINT  CHAR(15)     CHAR(5)  CHAR(8)
                -----  -----
*****  ***** TOP OF DATA *****
000001  L1      NEUMANN        60  Berlin      T6      N
000002  L4      MEIER          20  Berlin      T6      N
000003  L1      NEUMANN        60  Berlin      T4      S
000004  L4      MEIER          20  Berlin      T4      S
000005  L1      NEUMANN        60  Berlin      T1      C
000006  L4      MEIER          20  Berlin      T1      C
000007  L3      KRAUSE         30  Hamburg     T2      D
000008  L2      SCHMIDT        20  Hamburg     T2      D
000009  L3      KRAUSE         30  Hamburg     T5      B
000010  L2      SCHMIDT        20  Hamburg     T5      B
000011  -----  -----          -----  -----          T3      S
*****  ***** BOTTOM OF DATA *****
```



- 
- Einführung
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