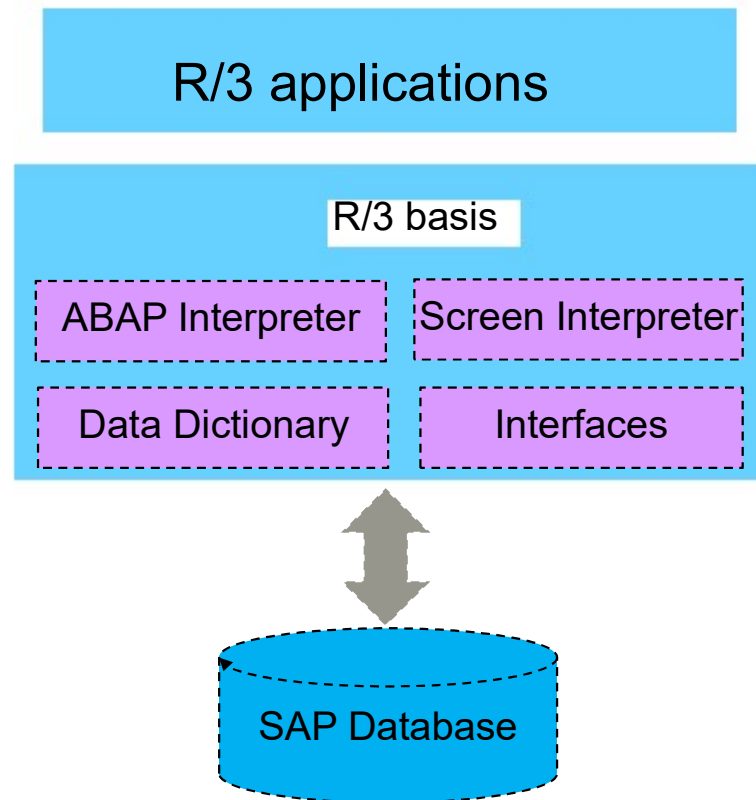


# Data Dictionary

A large white outline of a right-pointing arrow is centered on the page. The arrow is filled with a purple-to-magenta gradient. The background of the slide is a solid dark purple.

# Data Dictionary (1)

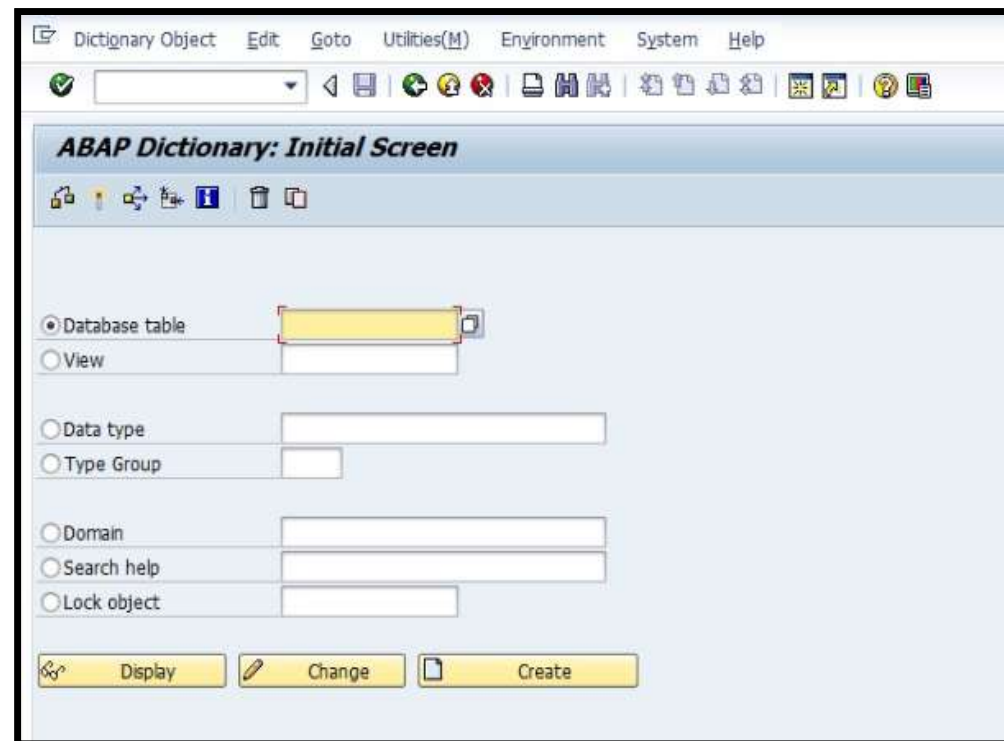
What is Data Dictionary?



# Data Dictionary (2)

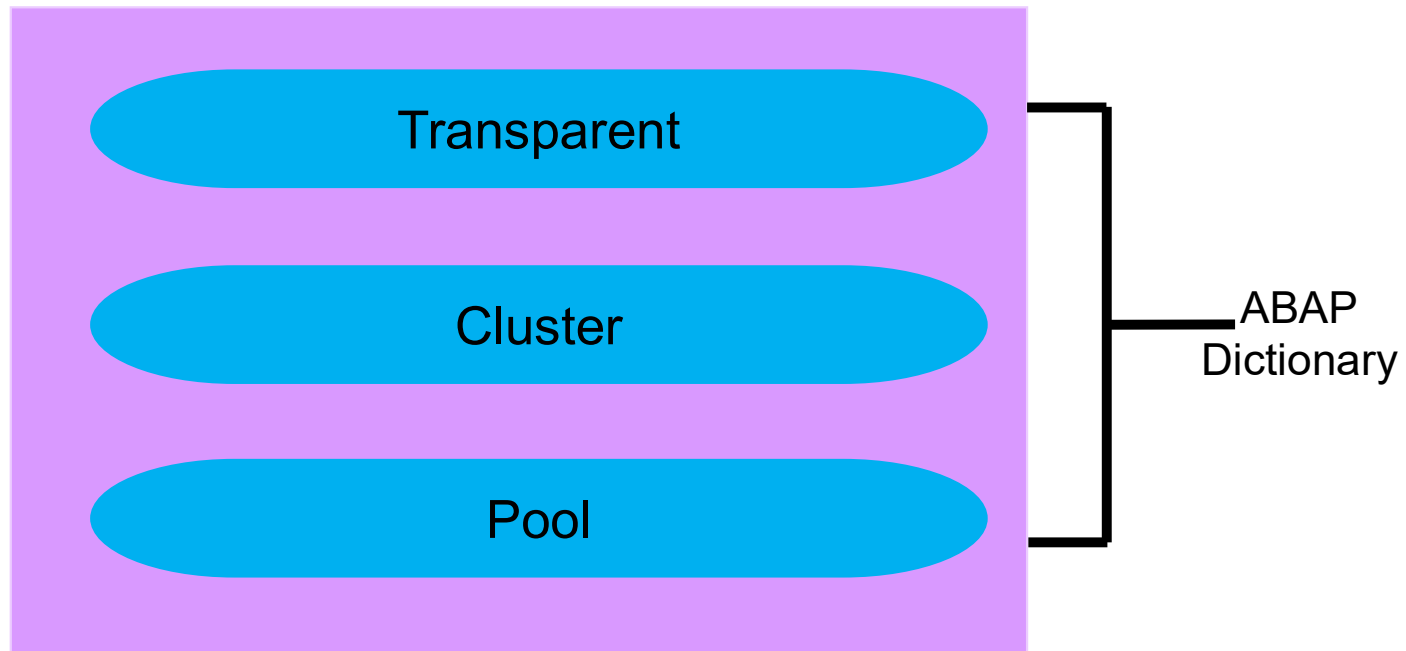
## Basic Data Dictionary Objects

The most important ABAP Data Dictionary objects are:



# Data Dictionary (3)

## Different Types of SAP Tables



# Data Dictionary (4)

## Creating Transparent Table

The screenshot shows the 'ABAP Dictionary: Initial Screen' in SAP. The 'Dictionary Object' field at the top contains 'SE11'. The 'Database table' radio button is selected, and the text 'ZEMP\_MASTER' is entered in the adjacent field. Below this, there are several other radio buttons: 'View', 'Data type', 'Type Group', 'Domain', 'Search help', and 'Lock object', each followed by an empty input field. At the bottom of the screen, there are three buttons: 'Display', 'Change', and 'Create'. The 'Create' button is highlighted in yellow. Four purple callout boxes with arrows point to specific elements: 1. 'Enter Transaction 'SE11' in command field' points to the 'SE11' in the 'Dictionary Object' field. 2. 'Select Option Database Table' points to the 'Database table' radio button. 3. 'Enter Custom Table Name Starting with 'Z'' points to the 'ZEMP\_MASTER' text in the table name field. 4. 'Click On Create Button' points to the 'Create' button.



# Data Dictionary (5)

## Creating Transparent Table

**Dictionary: Maintain Table**

← → | Technical Settings Indexes... Append Structure...

Transp. Table: ZEMP\_MASTER1 Active

Short Description: Employee Master Records

Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

Delivery Class: A Application table (master and transaction data)

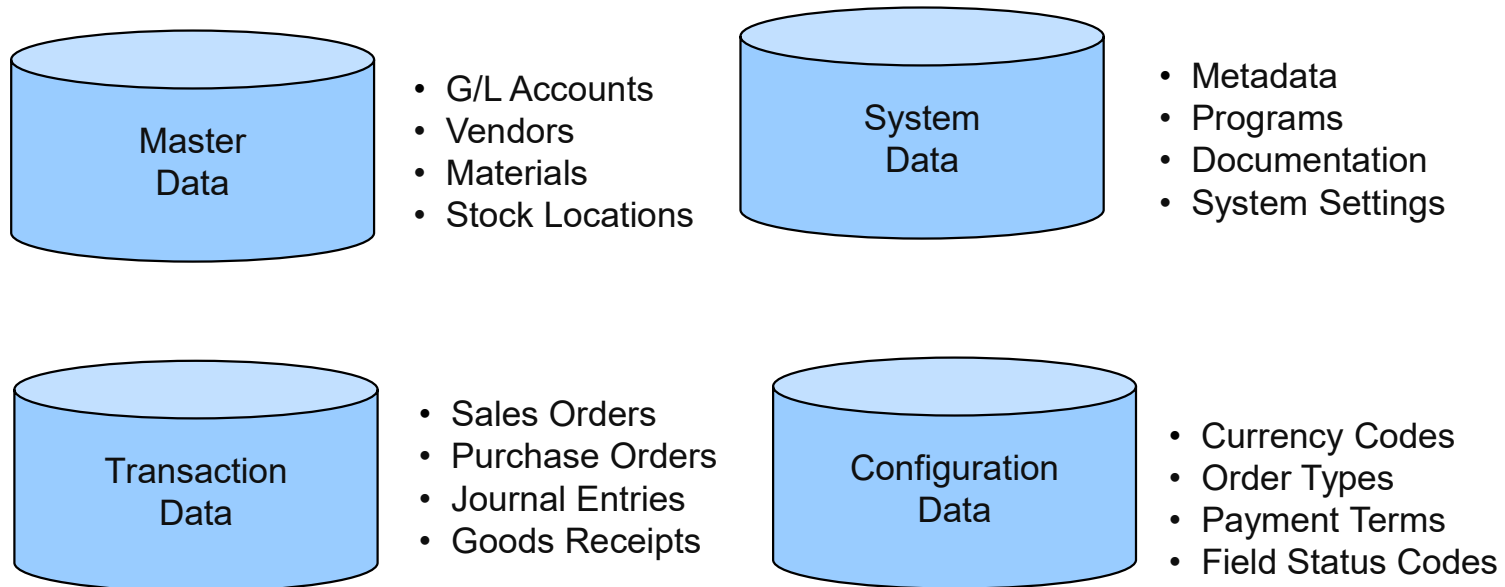
Data Browser/Table View Maint.: Display/Maintenance Allowed



# Data Dictionary (6)

## Delivery Class

Delivery class controls the transport of table data for an installation, upgrade, or client copy and transports between customer systems



# Data Dictionary (7)

## Creating Tables

The screenshot shows the SAP Data Dictionary 'Maintain Table' interface. The table name is ZSSR\_TABLE and it is a transparent table. The short description is 'Demo table creation'. The 'Fields' tab is active, showing a table with the following data:

Fields	Key	Init	Field type	Data...	Lgth.	Dec.p...	Check table
ZCHAR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZCHAR_DE			0	0

Annotations in the image point to the 'ZCHAR' field name and the 'ZCHAR\_DE' field type, which is identified as a 'Data element'.



# Data Dictionary (8)

## Creating Tables

The screenshot displays the SAP Dictionary 'Maintain Table' interface for table ZEMP\_MASTER1. The table is active and has the short description 'Employee Master Records'. The 'Fields' tab is selected, showing a list of fields with their attributes. Annotations highlight key features: '3' points to the 'Check' button, '4' points to the 'Active' button, '2' points to the 'Technical Settings' button, '1' points to the 'Predefined Type' button, and 'Data Element' points to the 'Data element' column in the table. A 'Predefined Type' button is also visible in the table's toolbar.

Field	Key	Ini...	Data element	Data T...	Length	Deci...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client
EMP_NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZEMPNO	NUMC	10	0	Employee Number
EMP_FIRST_NAME	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	35	0	Employee First Name
EMP_LAST_NAME	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	20	0	Employee Last Name
EMP_DOB	<input type="checkbox"/>	<input type="checkbox"/>		DATS	8	0	Employee Date of Birth
EMP_DOJ	<input type="checkbox"/>	<input type="checkbox"/>		DATS	8	0	Employee Date of Joining
ACC_GRP	<input type="checkbox"/>	<input type="checkbox"/>	ZACC_GRP	CHAR	3	0	Account Group
EMP_TYPE	<input type="checkbox"/>	<input type="checkbox"/>	ZEMP_TYPE	CHAR	20	0	Employee Type
CITY	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	20	0	City Name
STATE	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	20	0	Sate Name
COUNTRY	<input type="checkbox"/>	<input type="checkbox"/>		CHAR	20	0	Country Name
REGION	<input type="checkbox"/>	<input type="checkbox"/>	ZREGION1	CHAR	5	0	Region



# Data Dictionary (9)

## Data Element

Data element: LVOMA Active  
Short Description: Flag Material for Deletion at Client Level

Attributes | **Data Type** | Further Characteristics | Field Label

Elementary Type  
 Domain: XFELD is/No field  
Data Type: CHAR Character String  
Length: 1 Decimal Places: 0

Predefined Type  
Data Type:   
Length:  0 Decimal Places:  0

Reference Type  
 Name of Ref. Type:

Reference to Predefined Type  
Data Type:   
Length:  0 Decimal Places:  0

The attributes: description, type, length are inherited from domain



# Data Dictionary (10)

## Domain

**Dictionary: Maintain Domain**

Domain: ZACC\_GRP Active

Short Description: Account Group

Properties Definition Value Range

**Format**

Data Type: CHAR Character String

No. Characters: 3

Decimal Places: 0

**Output Characteristics**

Output Length: 3

Convers. Routine:

Sign

Lower Case



# Data Dictionary (11)

## Domain

**Dictionary: Maintain Domain**

Domain: ZACC\_GRP Active

Short Description: Account Group

Properties Definition Value Range

Single Vals

Fix.Val.	Short Descript.
IDC	India Development Center
BPO	Business Process Office



# Data Dictionary (12)

## Technical Settings

Data class	<ul style="list-style-type: none"><li>• The Data class determines in which table space the table is stored when it is created in the database</li></ul>
Size category	<ul style="list-style-type: none"><li>• Expected record count in the table</li></ul>
Buffering	<ul style="list-style-type: none"><li>• Buffer is nothing but a memory area</li><li>• Table is buffered means table information is available on application server</li><li>• When you access data from database table it will be fetched from application server</li></ul>
Log data changes	<ul style="list-style-type: none"><li>• Changes to the Table content are recorded automatically</li></ul>



# Data Dictionary (13)

## Technical Settings

**Dictionary: Maintain Technical Settings**

Revised<->Active

Name	ZEMP_MASTER1	Transparent Table
Short text	Employee Master Records	
Last Change	ECFDEV26	23.01.2013
Status	Active	Saved

Logical storage parameters

Data class	APPL0	Master data, transparent tables
Size category	0	Data records expected: 0 to 1.700

Buffering

Buffering not allowed  
 Buffering allowed but switched off  
 Buffering switched on

Buffering type

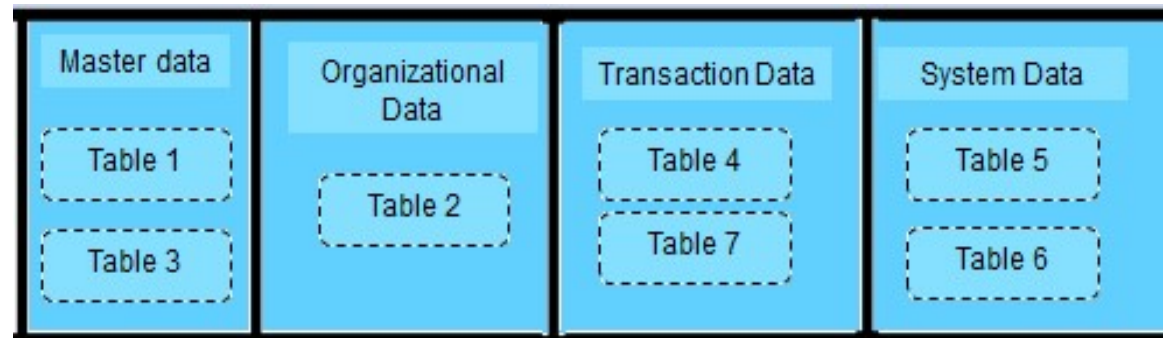
<input type="checkbox"/> Single records buff. <input type="checkbox"/> Generic Area Buffered <input type="checkbox"/> Fully Buffered	No. of key fields	<input type="text"/>
--	-------------------	----------------------

Log data changes  
 Write access only with JAVA



# Data Dictionary (14)

## Data Class



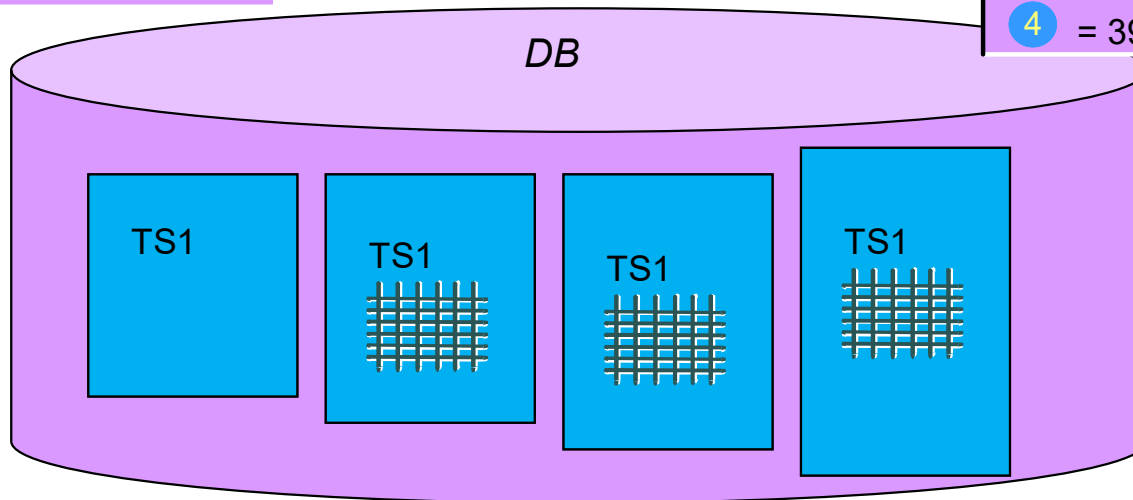
# Data Dictionary (15)

## Size Categories

Dict. Table	Selection
TS1	0
TS2	1
TS3	2
TS4	3
TS5	4

record count in the table  
in a storage area

- 0 = 0 to 640K
- 1 = 610K to 2400K
- 2 = 2400K to 9800K
- 3 = 9800K to 39000K
- 4 = 39000K plus

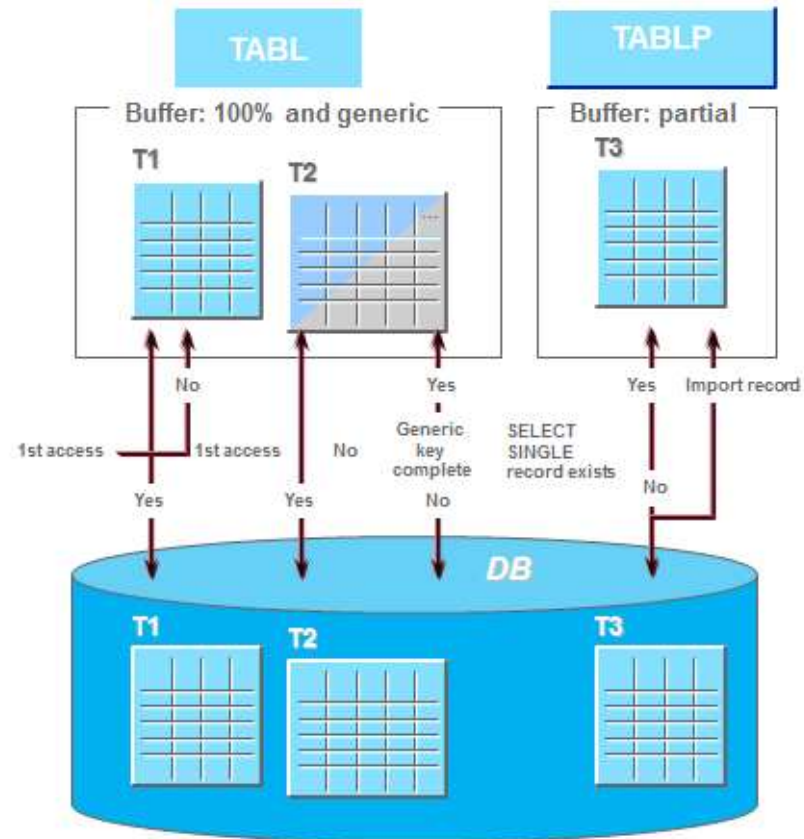
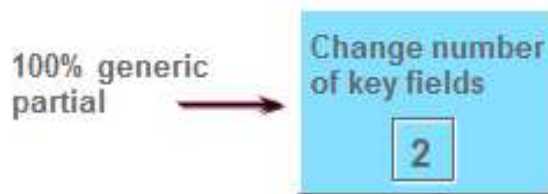


# Data Dictionary (16)

## Buffering

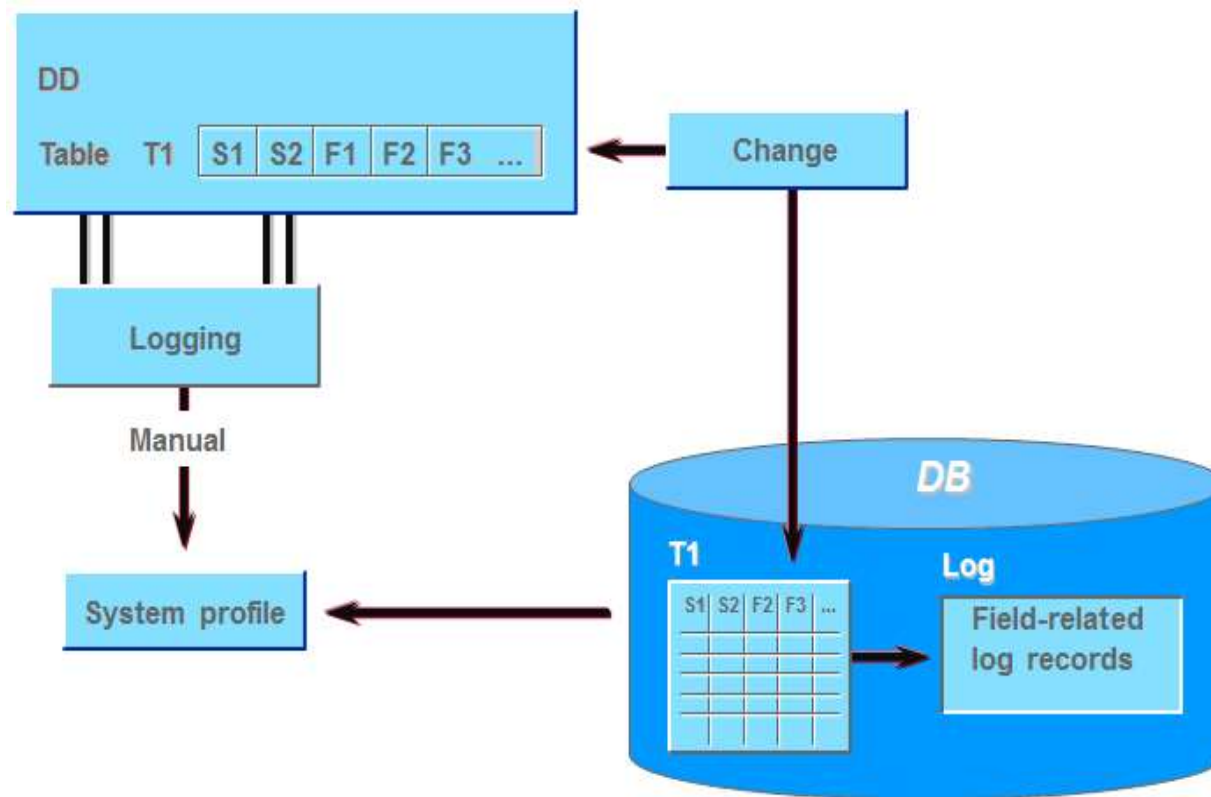
### ABAP Dictionary

T1	S1	S2	F1	...
T2	G1	G2	S3	F1 ...
T3	S1	S2	F1	...



# Data Dictionary (17)

## Logging



# Exercise

**Exercise 1.1** – ABAP Dictionary Search, 60 minutes

**Exercise 1.2** - Create Basic ABAP Dictionary Objects, 90 minutes

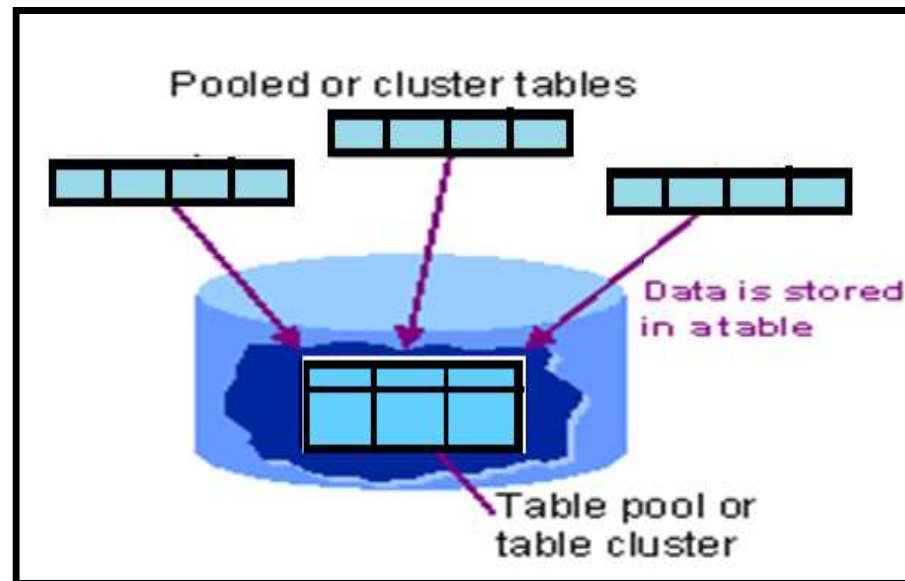


# Data Dictionary (18)

## Cluster and Pool Table

Data from multiple tables is stored together in a table pool or table cluster

Tables saved in a table pool or cluster are referred to as pooled tables or cluster tables



# Data Dictionary (19)

## Cluster and Pool Table

**Dictionary: Display Table**

Cluster Table BSEG Activ ←

Short Description Accounting Document Segment

Cluster Table

Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

Srch Help Predefined Type

Field	Key	Ini...	Data element	Data T...	Length	Deci...	Short Description
<u>MANDI</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>MANDI</u>	CLNT	3	0	Client
<u>BUKRS</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BUKRS</u>	CHAR	4	0	Company Code
<u>BELNR</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BELNR_D</u>	CHAR	10	0	Accounting Document Number
<u>GJAHR</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>GJAHR</u>	NUMC	4	0	Fiscal Year
<u>BUZEI</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BUZEI</u>	NUMC	3	0	Number of Line Item Within Accounting Document
<u>BUZID</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>BUZID</u>	CHAR	1	0	Identification of the Line Item
<u>AUGDI</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>AUGDI</u>	DATS	8	0	Clearing Date
<u>AUGCP</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>AUGCP</u>	DATS	8	0	Clearing Entry Date
<u>AUGBL</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>AUGBL</u>	CHAR	10	0	Document Number of the Clearing Document
<u>BSCHL</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>BSCHL</u>	CHAR	2	0	Posting Key
<u>KOART</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>KOART</u>	CHAR	1	0	Account Type
<u>UMSKZ</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>UMSKZ</u>	CHAR	1	0	Special G/L Indicator
<u>UMSKS</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>UMSKS</u>	CHAR	1	0	Special G/L Transaction Type
<u>ZUMSK</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>DZUMSK</u>	CHAR	1	0	Target Special G/L Indicator
<u>SHKZG</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SHKZG</u>	CHAR	1	0	Debit/Credit Indicator
<u>GSBER</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>GSBER</u>	CHAR	4	0	Business Area



# Data Dictionary (20)

## Cluster and Pool Table

The screenshot shows the SAP Data Dictionary interface for table A005. The table is identified as a 'Pooled Table' and is currently 'Active'. The short description is 'Customer/Material'. The 'Fields' tab is selected, displaying a list of fields with their attributes.

Field	Key	Ini...	Data element	Data T...	Length	Deci...	Short Description
<u>MANDI</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>MANDI</u>	CLNT	3	0	Client
<u>KAPPL</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>KAPPL</u>	CHAR	2	0	Application
<u>KSCHL</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>KSCHA</u>	CHAR	4	0	Condition type
<u>VKORG</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>VKORG</u>	CHAR	4	0	Sales Organization
<u>VIWEG</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>VIWEG</u>	CHAR	2	0	Distribution Channel
<u>KUNNR</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>KUNNR_V</u>	CHAR	10	0	Customer number
<u>MATNR</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>MATNR</u>	CHAR	18	0	Material Number
<u>DATBI</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>KODATBI</u>	DATS	8	0	Validity end date of the condition record
<u>ATAB</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>KODATAB</u>	DATS	8	0	Validity start date of the condition record
<u>KNUMH</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>KNUMH</u>	CHAR	10	0	Condition record number



# Data Dictionary (21)

## Foreign Table

Creating employee table

**Dictionary: Maintain Table**

Transp. Table: ZEMP\_SALARY1 Active  
Short Description: Employee Salary Information

Attributes | Delivery and Maintenance | **Fields** | Entry help/check | Currency/Quantity Fields

1 / 15

Field	Key	Ini...	Data element	Data T...	Length	Deci...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client
BILL_NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZNUMC5	NUMC	5	0	HI
EMP_NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZEMPNO	NUMC	10	0	Employee Number
ZLEVEL	<input type="checkbox"/>	<input type="checkbox"/>	ZLEVEL	CHAR	3	0	LEVEL
ZMONTH	<input type="checkbox"/>	<input type="checkbox"/>	/BIO/OICALMONTH	NUMC	6	0	Calendar Year/Month
NO_DAYS	<input type="checkbox"/>	<input type="checkbox"/>	ZINT2	INT1	3	0	First number of type 'INT1' for calculation purposes
LOP	<input type="checkbox"/>	<input type="checkbox"/>	ZINT2	INT1	3	0	First number of type 'INT1' for calculation purposes
BASIC	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
CONVIENCE_ALLOW	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
HRA	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
SPECIAL_ALLOW	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
PF_TAX	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
PF	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
INC_TAX	<input type="checkbox"/>	<input type="checkbox"/>	DMBTR	CURR	13	2	Amount in Local Currency
ZCURRENCY	<input type="checkbox"/>	<input type="checkbox"/>	WAERS	CUKY	5	0	Currency Key



# Data Dictionary (22)

## Foreign Table

The screenshot shows the SAP Dictionary: Maintain Table interface for table ZEMP\_SALARY1. The table is active and its short description is "Employee Salary Information". The "Fields" tab is selected, and a "Foreign Key Fields" dialog box is open, showing the configuration for the foreign key ZEMP\_SALARY1-EMP\_NO. The dialog box includes a "Short text" field, a "Check table" field set to ZEMP\_MASTER1, and a "Generate proposal" button. The "Foreign Key Fields" table is as follows:

Check table	ChkTabFld	For.key ta...	Foreign Key Field	Generic	Constant
ZEMP_MAST..	MANDT	ZEMP_SALA..	MANDT	<input type="checkbox"/>	
ZEMP_MAST..	EMP_NO	ZEMP_SALA..	EMP_NO	<input type="checkbox"/>	


The "Screen check" section is checked, and the "Semantic attributes" section shows the "Foreign key field type" set to "Not Specified". The "Cardinality" is set to "1 : 1". A blue callout box points to the key icon in the field list, with the text "Click on Key Icon For making Foreign Table".



# Data Dictionary (23)


## Foreign Table

**Data Browser: Table ZEMP\_MASTER1 Select Entries 2**



Cl.	Employee Id	EMP_FIRST_	EMP_LAST_N	EMP_DOB	EMP_DOJ	Account Group	Employee Type	City Name	Sate Name	COUNTRY	Region
800	1	LAXMI	KUMARI	04.06.1980	11.10.2010	IDC	PERM	BANGALORE	KARNATAKA	INDIA	APAC
800	2	RASHMI	SAIKIA	04.04.1978	14.04.2005	BPO	PERM	CHENNAI	TAMIL NADU	INDIA	APAC

**Data Browser: Table ZEMP\_SALARY1 Select Entries 1**



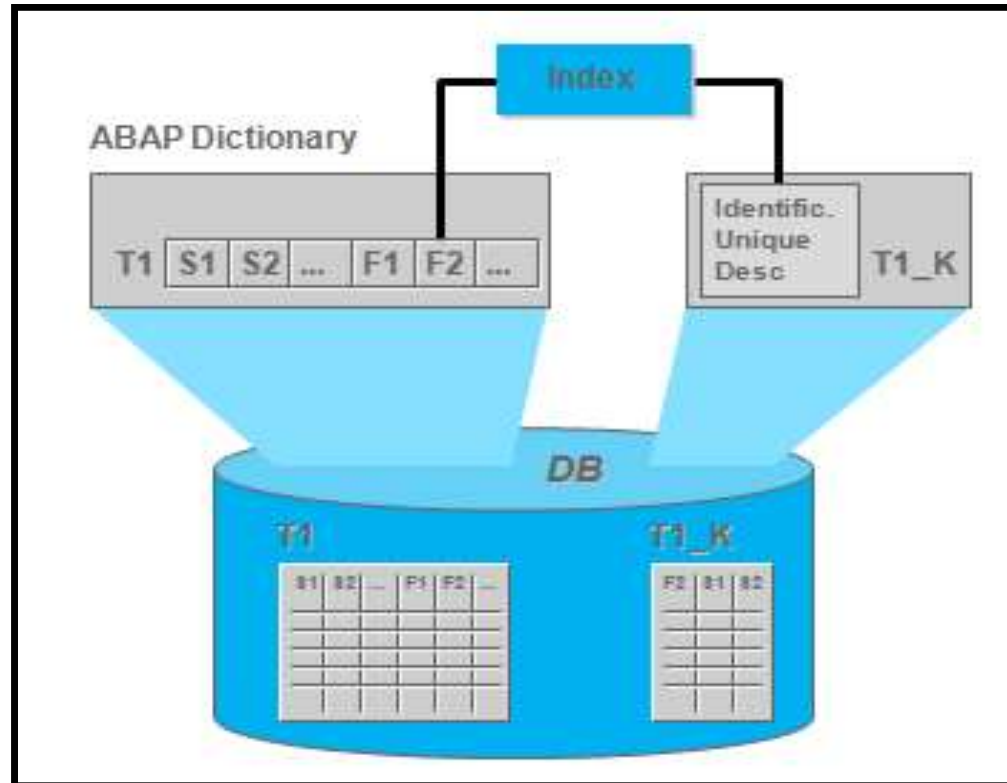
Check Table...

Cl.	HI	Employee Id	ZLEVEL	Calendar Year/Month	VALUEGIGANT...	VALUEGIGANTICBIGGEST	Amount in LC	Amount in LC	Amount in LC	Amount in LC	Amount in LC	Amount in LC	Amount in LC	Crcy
800	1	1	ASE	200704	30	0	12.000,00	10.000,00	10.000,00	0,00	200,00	2.000,00	0,00	INR



# Data Dictionary (24)

## Indexes



# Exercise

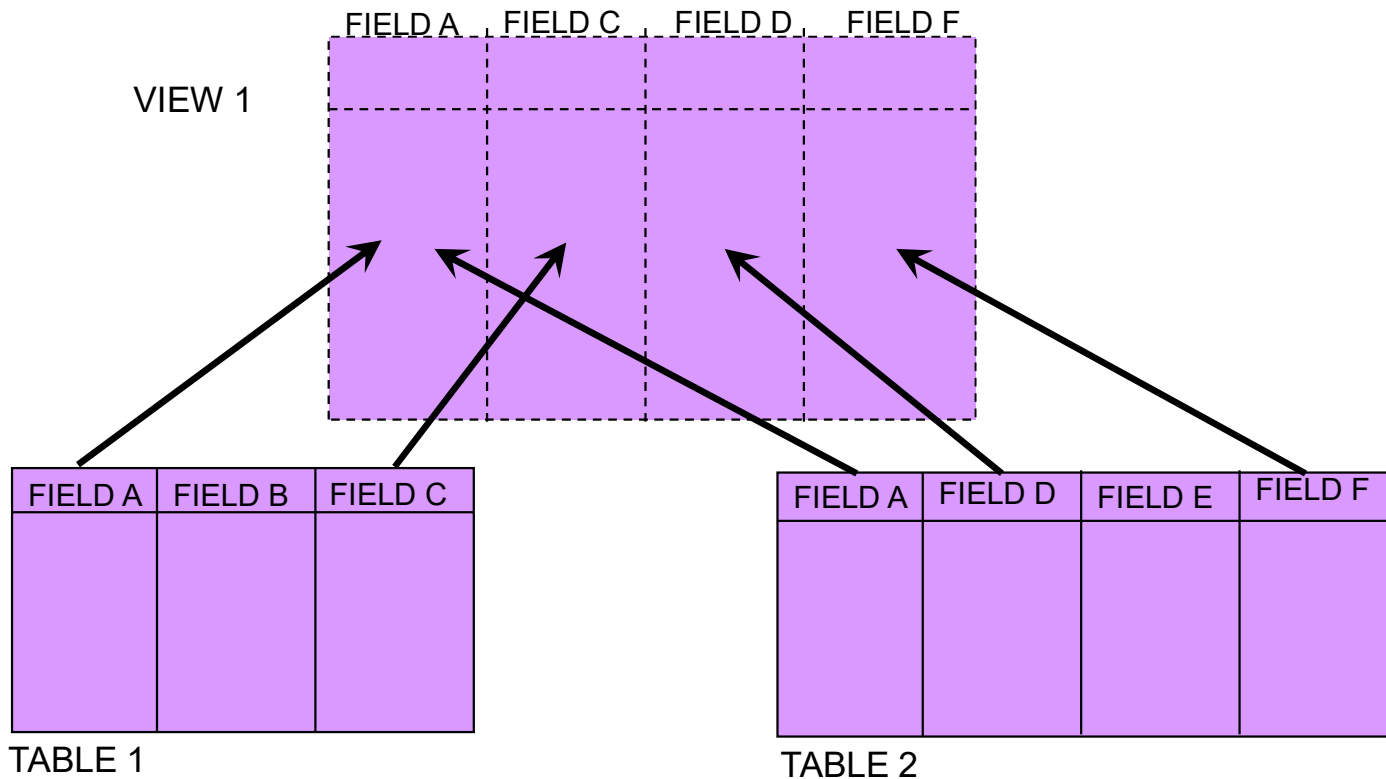
**Exercise 1.3** – Create Table indexes, 40 minutes



# Data Dictionary (25)

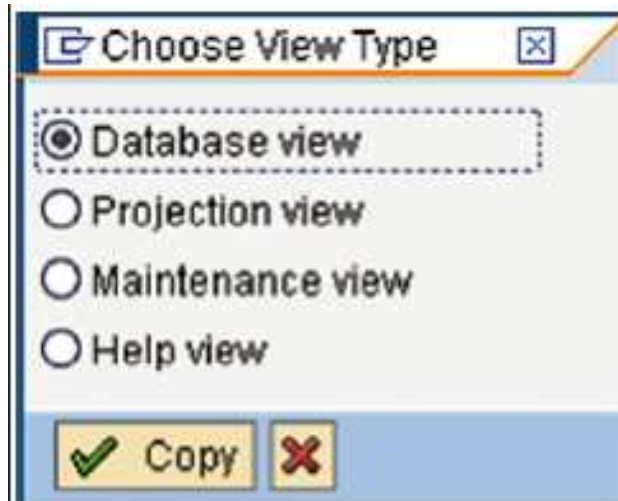
## Views

A view is a definition, which contains combination of fields from one or more related tables, but does not contain any data.



# Data Dictionary (26)

## Types of Views



DATABASE VIEW

PROJECTION VIEW

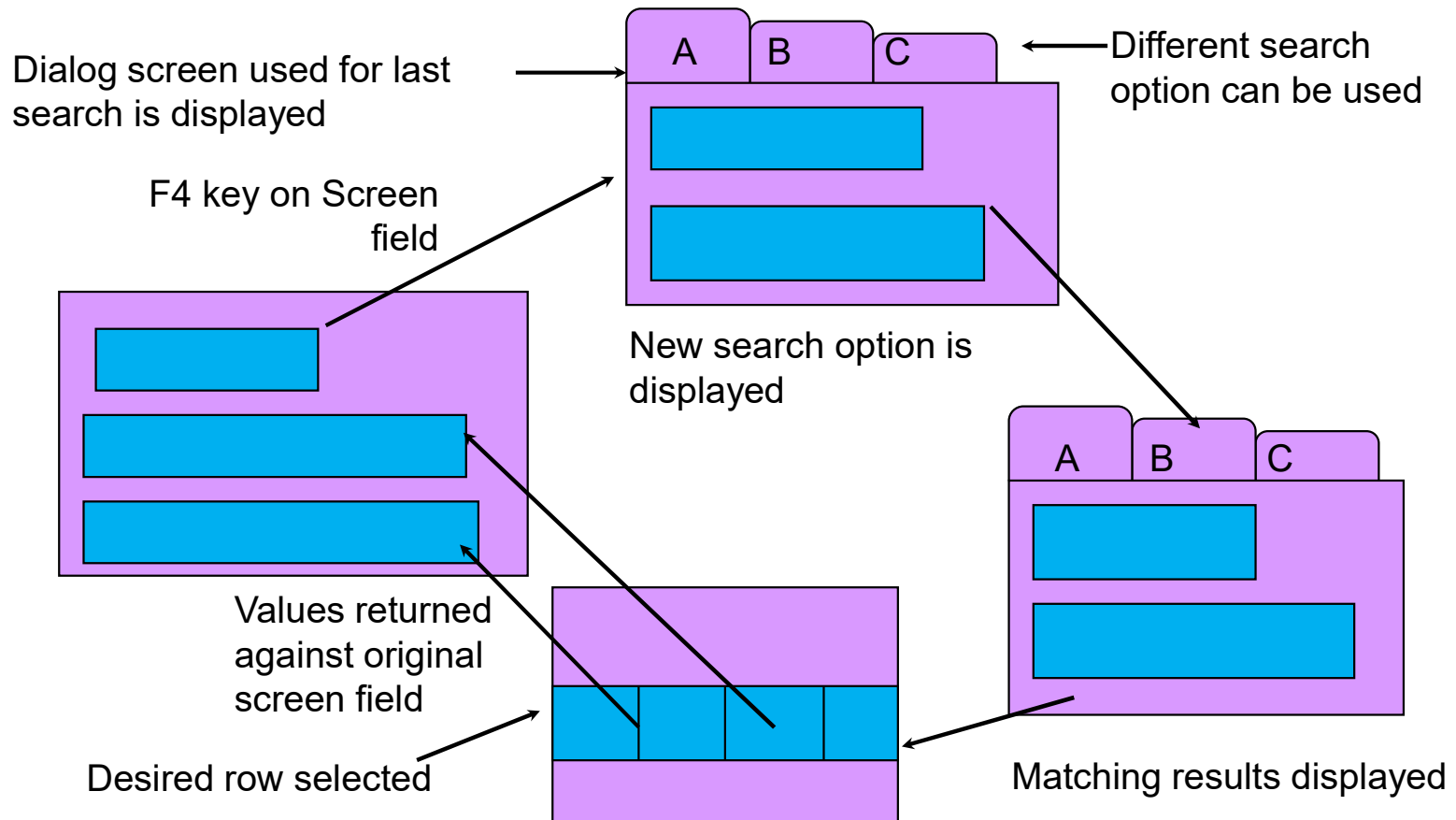
MAINTENANCE VIEW

HELP VIEW



# Data Dictionary (27)

## Search Help



# Data Dictionary (28)

## Search Help Fields

Dictionary: Display Search Help

Elementary Help: AANLC Active  
Short description: Cost center

Attributes | Definition

Data Collection

Selection method	M_AANLC
Text table	

Dialog Behavior

Dialog type	Dialog with value restriction
Hot key	C

Enhanced Options

Proposal Search for Input Fields  
 Multi-Column Full Text Search (Database-Specific)  
Accuracy Value for Error-Tolerant Full Text Search: 0.8

Search help exit: \_\_\_\_\_

Parameter

Search help parameter	IMP	EXP	LPos	SPos	SDis	Data element	M...	Default value
BUKRS3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>	BUKRS	<input type="checkbox"/>	BUK
KOSTL	<input type="checkbox"/>	<input type="checkbox"/>	2	2	<input type="checkbox"/>	KOSTL	<input type="checkbox"/>	
WERKS	<input type="checkbox"/>	<input type="checkbox"/>	3	3	<input type="checkbox"/>	WERKS_D	<input type="checkbox"/>	
GSBER	<input type="checkbox"/>	<input type="checkbox"/>	4	4	<input type="checkbox"/>	GSBER	<input type="checkbox"/>	
MCOA1	<input type="checkbox"/>	<input type="checkbox"/>	5	5	<input type="checkbox"/>	MCOA1	<input type="checkbox"/>	
ADATU	<input type="checkbox"/>	<input type="checkbox"/>	6	6	<input type="checkbox"/>	ADATU	<input type="checkbox"/>	
BDAIUZ	<input type="checkbox"/>	<input type="checkbox"/>	7	7	<input type="checkbox"/>	BDAIUZ	<input type="checkbox"/>	



# Exercise

**Exercise 1.4** - Create search Help, 40 minutes



# Data Dictionary (29)

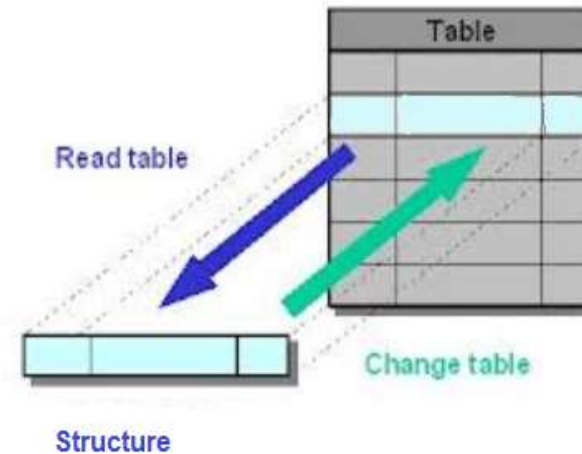
## Structure

Structure is a Skeleton of a table

It contains the definition of columns

### Types of Structures:

- Include Structure
- Append Structure

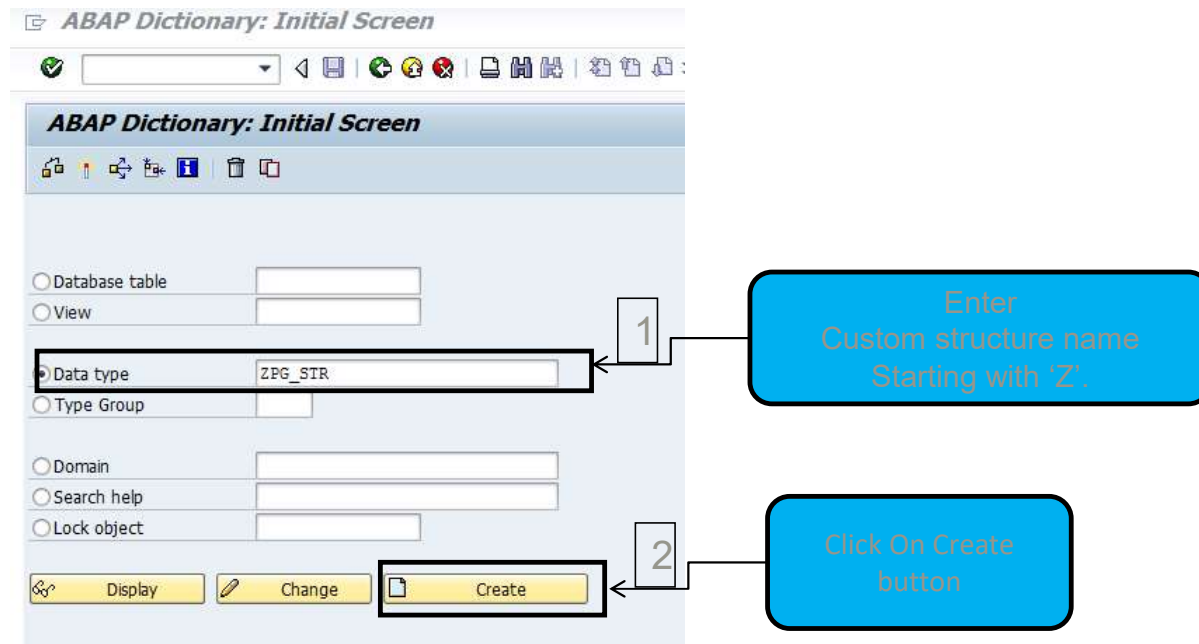


# Data Dictionary (30)

## Structure

Execute T-Code SE11. Select 'Data type' radio button

Structure name should start with Y or Z. Click "Create" button.



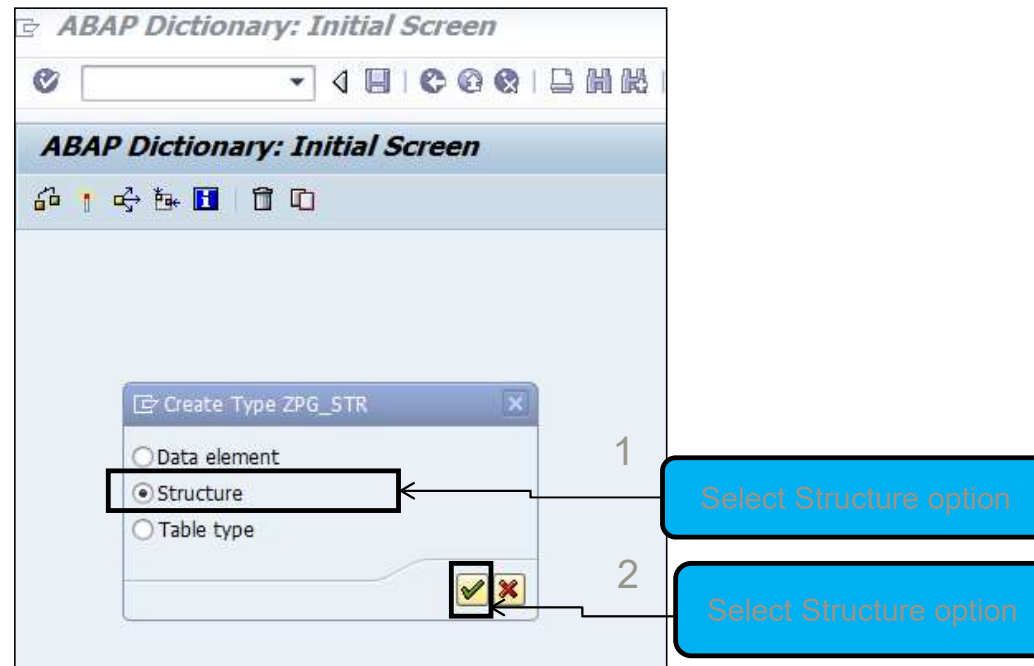
The screenshot shows the 'ABAP Dictionary: Initial Screen' in SAP. The 'Data type' radio button is selected, and the text 'ZPG\_STR' is entered in the adjacent input field. A blue callout box labeled '1' points to this input field with the text 'Enter Custom structure name Starting with 'Z''. Below the form, the 'Create' button is highlighted with a black border, and a blue callout box labeled '2' points to it with the text 'Click On Create button'. The interface includes standard SAP navigation icons at the top and a toolbar with 'Display', 'Change', and 'Create' buttons at the bottom.



# Data Dictionary (31)

## Structure

Select “structure” option from the pop-up screen.



# Data Dictionary (32)

## Structure

Next screen will be displayed as below

The screenshot shows the 'Dictionary: Maintain Structure' window. The 'Structure' field contains 'ZPG\_STR' and 'New(Revised)'. The 'Short Description' field is highlighted with a black box and contains a checkmark. A blue callout bubble with the text 'Enter Short Text' points to this field. Below the form are tabs for 'Attributes', 'Components', 'Entry help/check', and 'Currency/quantity fields'. The 'Components' tab is active, showing a table with the following columns: Component, RT..., Component type, Data Type, Length, Deci..., and Short Description. The table is currently empty.

Component	RT...	Component type	Data Type	Length	Deci...	Short Description
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					



# Data Dictionary (33)

## Structure

Provide description and components.

Click SAVE button, followed by CHECK and ACTIVATE

Structure is Created Successfully

Dictionary: Maintain Structure

Structure: ZPG\_STR Activate (Ctrl+F3) New(Revised)

Short Description: Structure name the Data Dictionary

Attributes Components Entry help/check Currency/quantity fields

Predefined Type 1 / 3

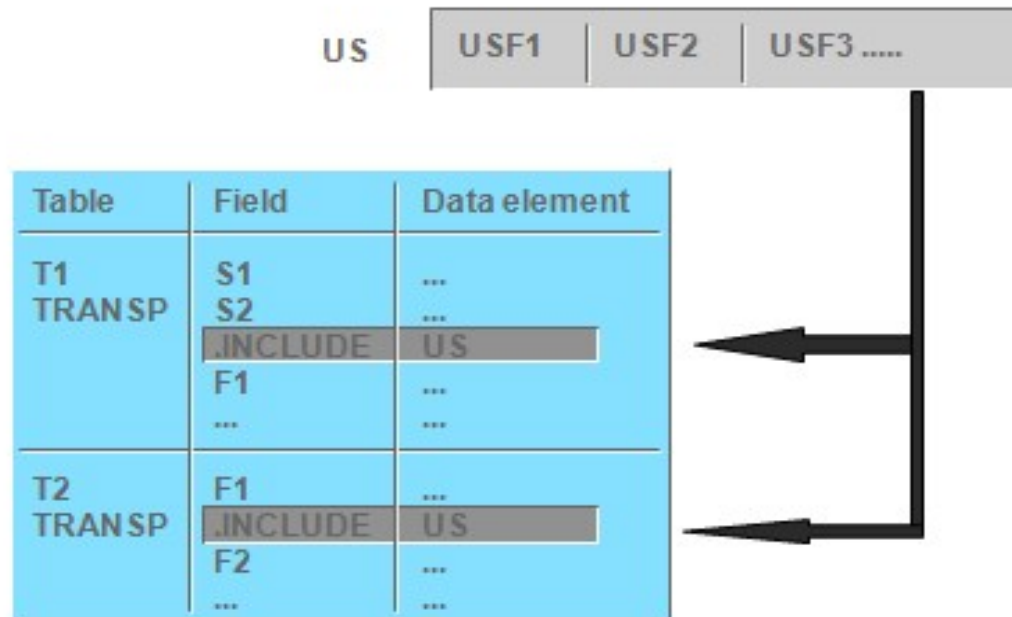
Component	RT...	Component type	Data Type	Length	Deci...	Short Description
LIFNR	<input type="checkbox"/>	LIFNR	CHAR	10	0	Account Number of Vendor or Creditor
LAND1	<input type="checkbox"/>	LAND1	CHAR	3	0	Country Key
NAME1	<input type="checkbox"/>	NAME1	CHAR	30	0	Name

Enter Field and its Data Element



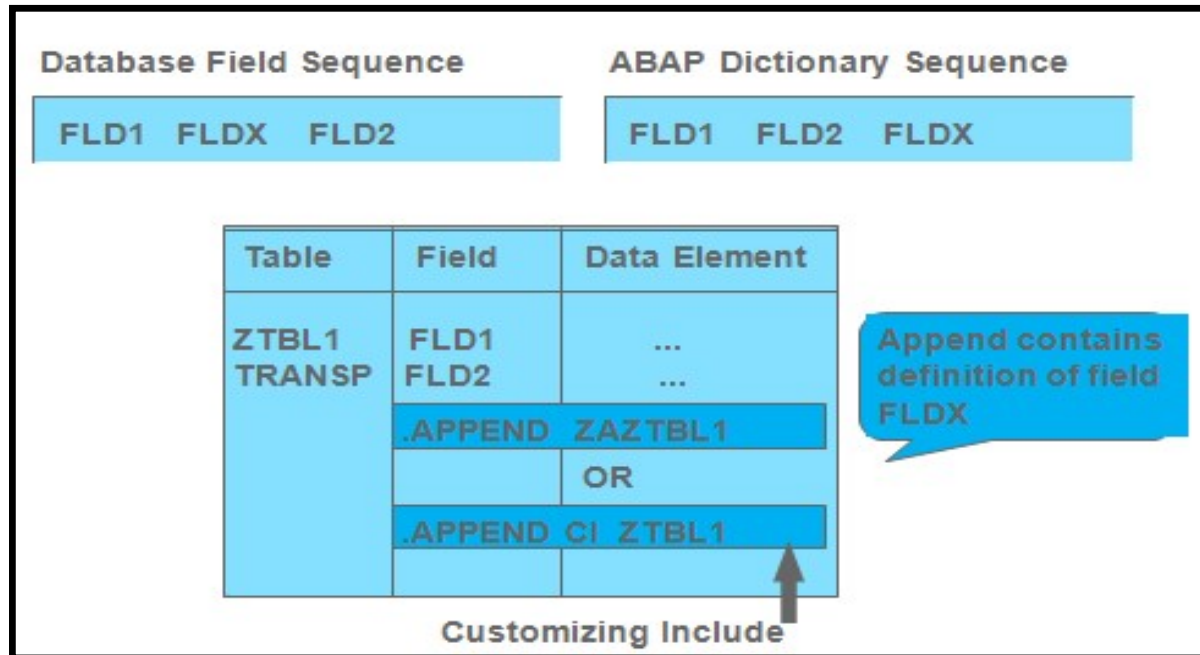
# Data Dictionary (34)

## INCLUDE Substructure



# Data Dictionary (35)

## APPEND Substructure



# Data Dictionary (36)

## INCLUDE and APPEND Substructure

Dictionary: Display Table

Transp. Table: VBAP Active  
Short Description: Sales Document: Item Data

Buttons: Append Structure...

Field	Key	Ini...	Data element	Data T...	Length	Deci...	Short Description
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	/OLC/VBAP_APP	STRU	0	0	OLC: Operation internal identifier fields
AUFPL OLC	<input type="checkbox"/>	<input type="checkbox"/>	CO_AUFPL	NUMC	10	0	Routing number of operations in the order
AFLZL OLC	<input type="checkbox"/>	<input type="checkbox"/>	CIM_COUNT	NUMC	8	0	Internal counter
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	FERC_VBAP	STRU	0	0	Append structure for Regulatory Reporting
FERC_IND	<input type="checkbox"/>	<input type="checkbox"/>	FE_IND	CHAR	4	0	Regulatory indicator
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	GMADDONVBAP	STRU	0	0	Grants Mgmt: additional components to VBAP
KOSTL	<input type="checkbox"/>	<input type="checkbox"/>	KOSTL	CHAR	10	0	Cost Center
FONDS	<input type="checkbox"/>	<input type="checkbox"/>	BP_GEBER	CHAR	10	0	Fund
FISTL	<input type="checkbox"/>	<input type="checkbox"/>	FISTL	CHAR	16	0	Funds Center
FKBER	<input type="checkbox"/>	<input type="checkbox"/>	FKBER	CHAR	16	0	Functional Area
GRANI_NBR	<input type="checkbox"/>	<input type="checkbox"/>	GM_GRANT_NBR	CHAR	20	0	Grant
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	IUID_VBAP	STRU	0	0	IUID_VBAP
IUID_RELEVANT	<input type="checkbox"/>	<input type="checkbox"/>	IUID_RELEVANT_C	CHAR	1	0	IUID_RELEVANT_C
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	PRSS_VBAP_APP	STRU	0	0	Append structure
.INCLUDE	<input type="checkbox"/>	<input type="checkbox"/>	PRSS_VBAP_EXT	STRU	0	0	Engagement mgmt: VBAP extension
PRS_OBJNR	<input type="checkbox"/>	<input type="checkbox"/>	PRS_OBJNR	CHAR	22	0	Engagement mgmt: Object number



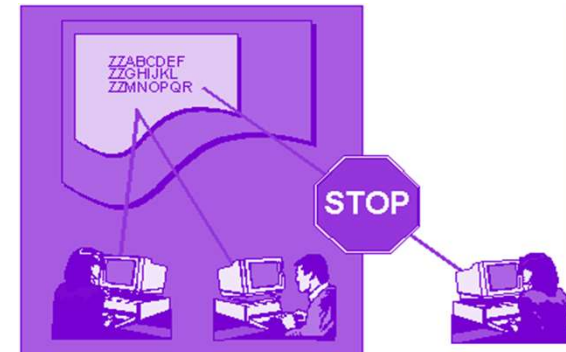
# Data Dictionary (37)

## Lock Objects

Lock objects are used in SAP to avoid the inconsistency at the time of data is being insert/change into database.

SAP Provide three type of Lock objects.

- ✓ Read Lock(Shared Locked)
- ✓ Write Lock(exclusive lock)
- ✓ Enhanced write lock (exclusive lock without cumulating)



# Data Dictionary (38)

## Lock Objects

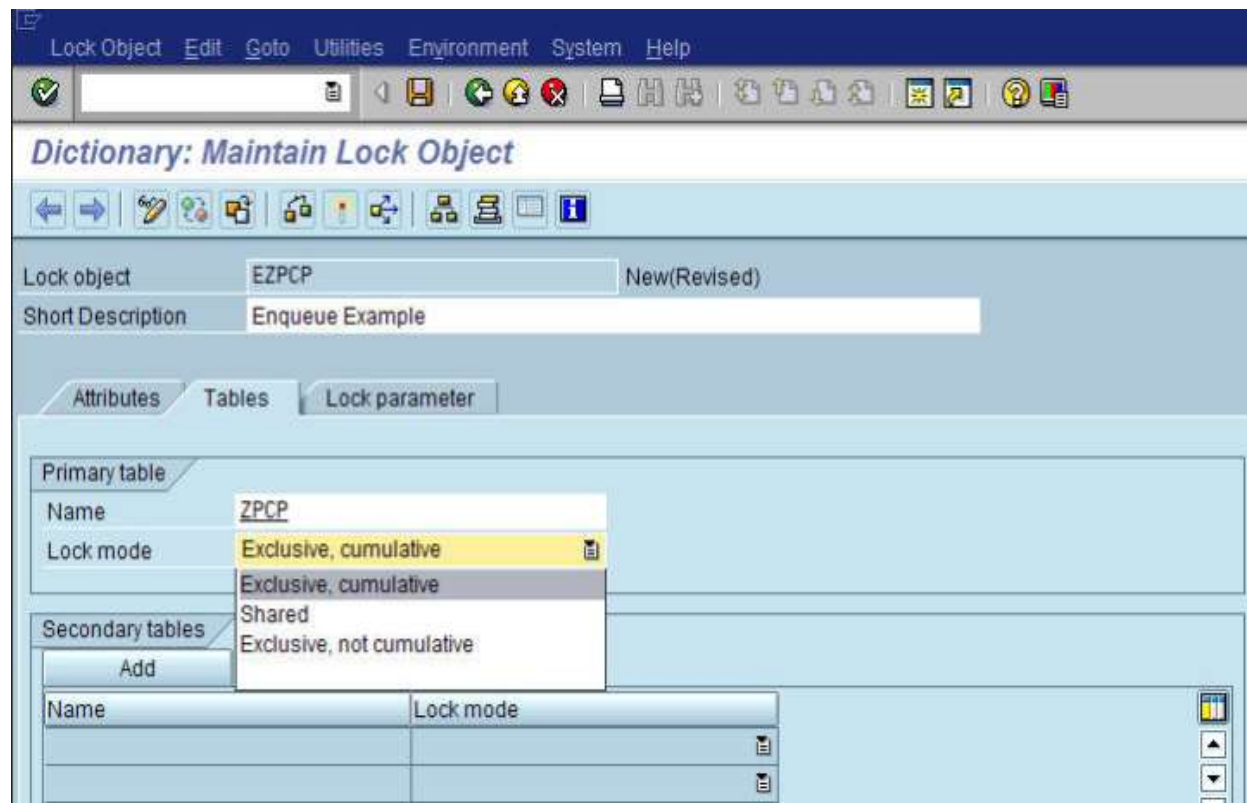
The screenshot displays the 'Dictionary: Maintain Lock Object' window. The title bar includes 'Lock Object', 'Edit', 'Goto', 'Utilities', 'Environment', 'System', and 'Help'. The main area contains the following fields and options:

- Lock object: EZPCP
- Short Description: (empty field)
- Attributes | Tables | Lock parameter (selected)
- Last changed on/by: RHAR 30.11.2004
- Package: (empty field)
- Original language: EN English
- Allow RFC



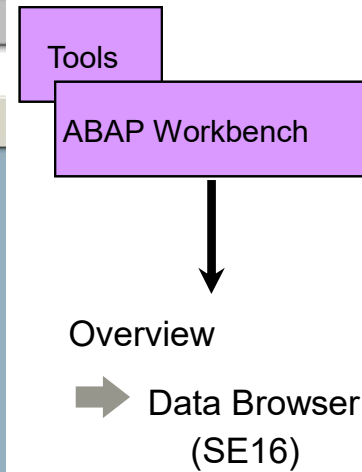
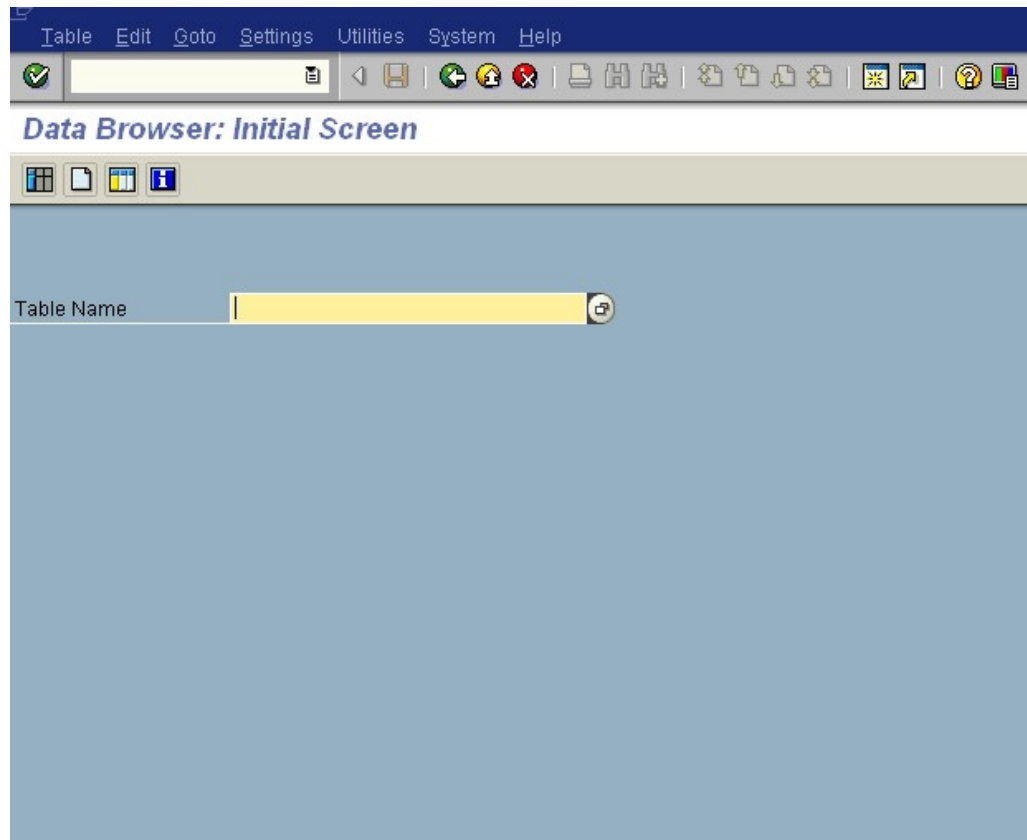
# Data Dictionary (39)

## Lock Objects



# Data Dictionary (40)

## Data Browser



# Data Dictionary (41)

## User Parameters

The screenshot shows the 'User-Specific Settings' dialog box with the following configuration:

- Output list**
  - Width of Output List: 250
  - Maximum No. of Hits: 200
  - Display max.no.of hits possible
  - ALV Grid display
  - ALV list
  - SE16 standard list
- Keyword**
  - Field name
  - Field Label
- Format**
  - Check conversion exits

At the bottom of the dialog, there are icons for 'OK' (green checkmark) and 'Cancel' (red X).



# Data Dictionary (42)

## Using the Browser

**Data Browser: Table SPFLI: Selection Screen**

Number of entries

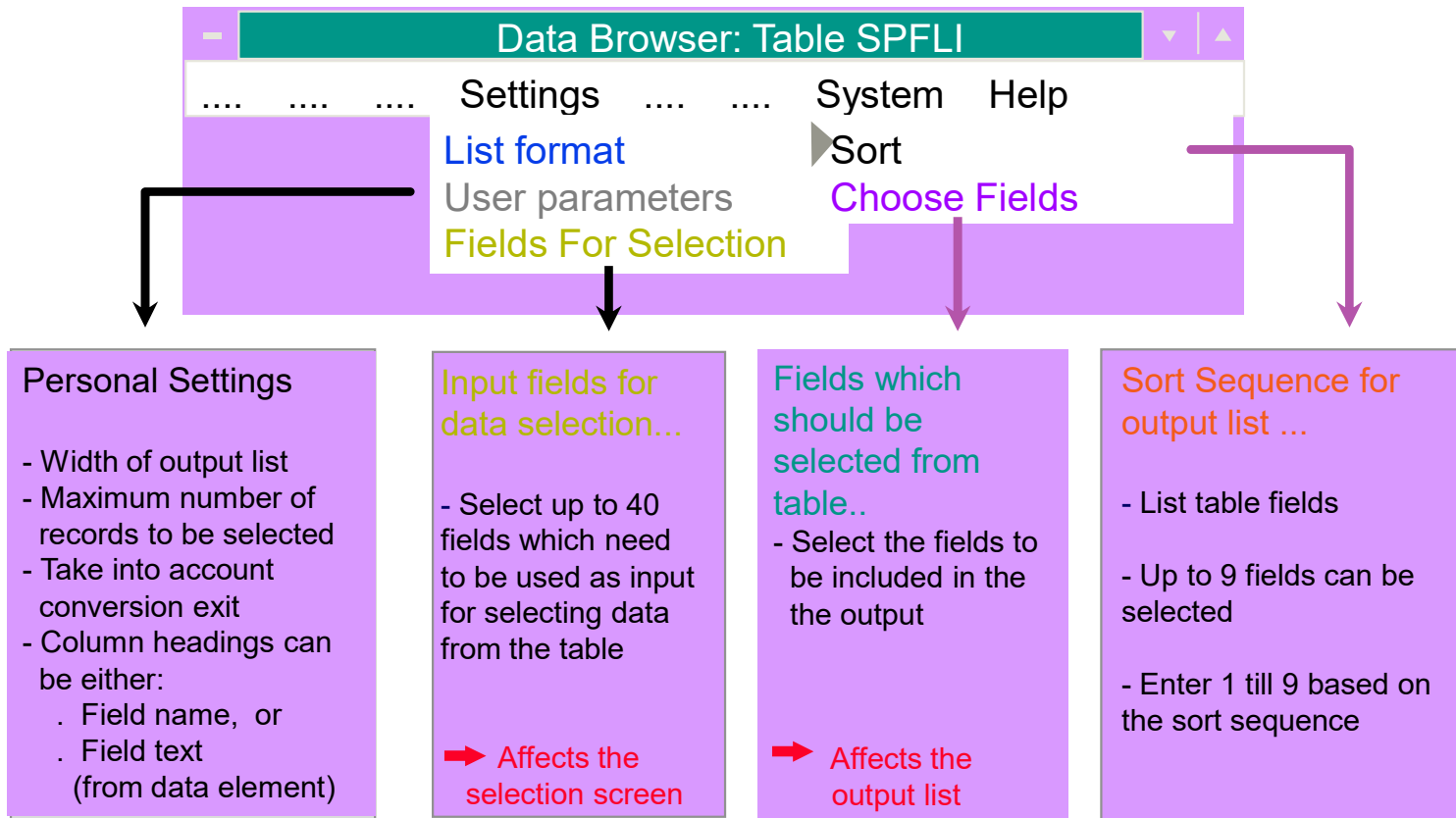
Airline carrier		to		
Flight number		to		
Country		to		
Depart city		to		
Dep. airport		to		
Country		to		
Destination		to		
Dest. airport		to		
Flight time	0 : 00	to	0 : 00	
Departure	00 : 00 : 00	to	00 : 00 : 00	
Arrival time	00 : 00 : 00	to	00 : 00 : 00	
Distance		to		
Distance in		to		
Charter		to		
PERIOD		to		
Width of output list	200			
Maximum no. of hits			200	

DEV (1) (860) sscdcn89 INS



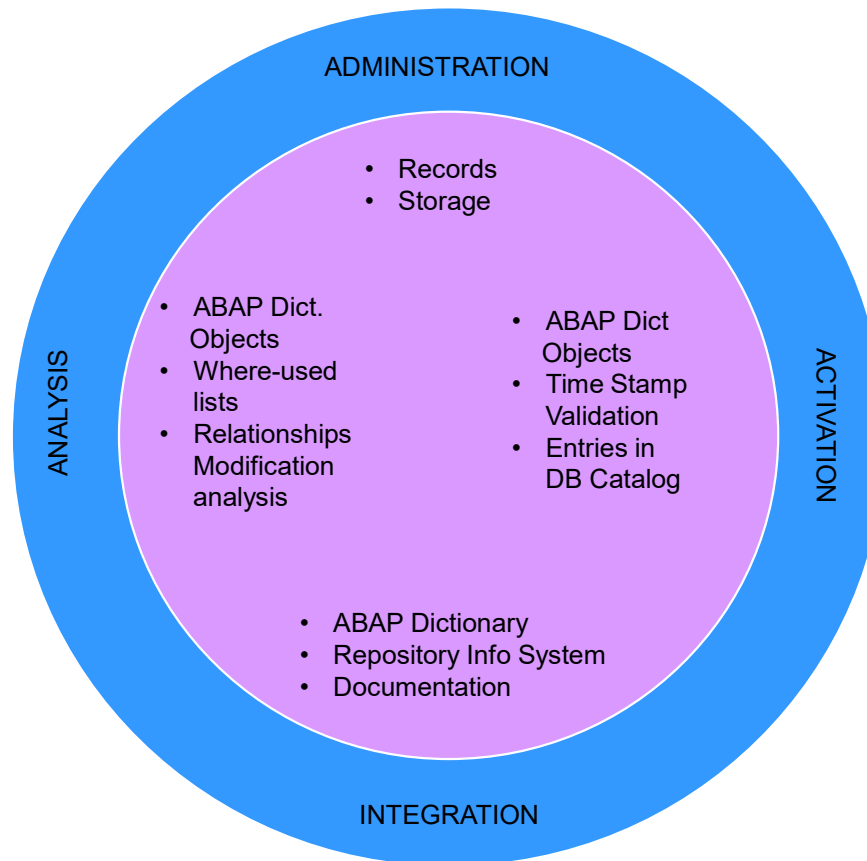
# Data Dictionary (43)

## Settings-Change Screen Shot



# Data Dictionary (44)

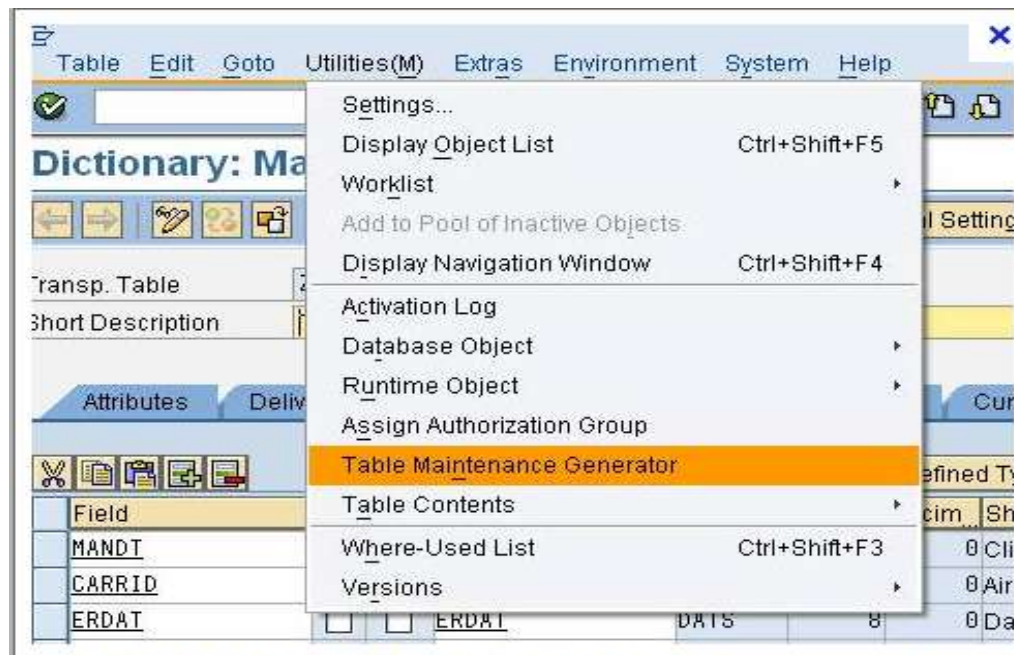
## ABAP Dictionary Functionality



# Data Dictionary (45)

## Table Maintenance

The R/3 System synchronizes simultaneous access of several users to the same data records with a lock mechanism



# Exercise

**Exercise 1.5** – View a table with Data browser, 30 minutes



# QUIZ

## Answer the Following

1. What is the purpose of Data Dictionary in ABAP?
2. What is the t-code for Data dictionary?
3. What are the types of tables?
4. What is the meaning of Data class for a table?
5. what is the difference between a table and a structure?
6. What is a view?



# Questions



Any questions?



# Thank You

