

ABAP Dictionary



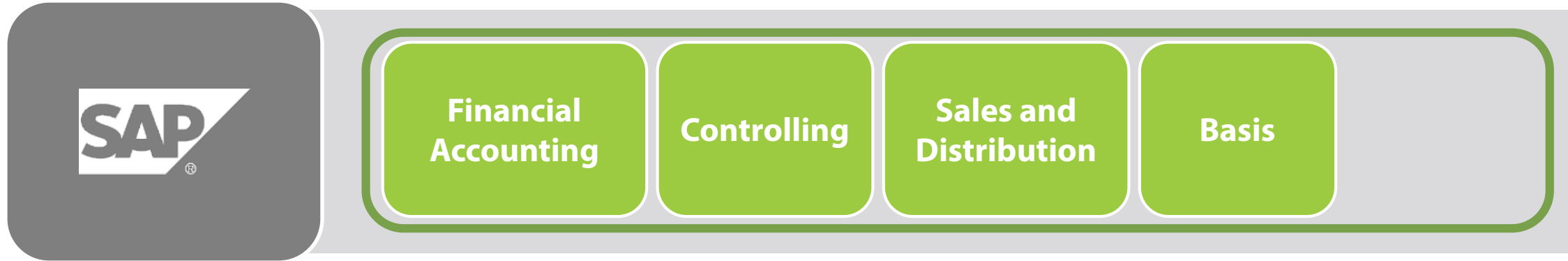
Alex Gönczy

@abapmentor | abapmentor.expertise-team.com

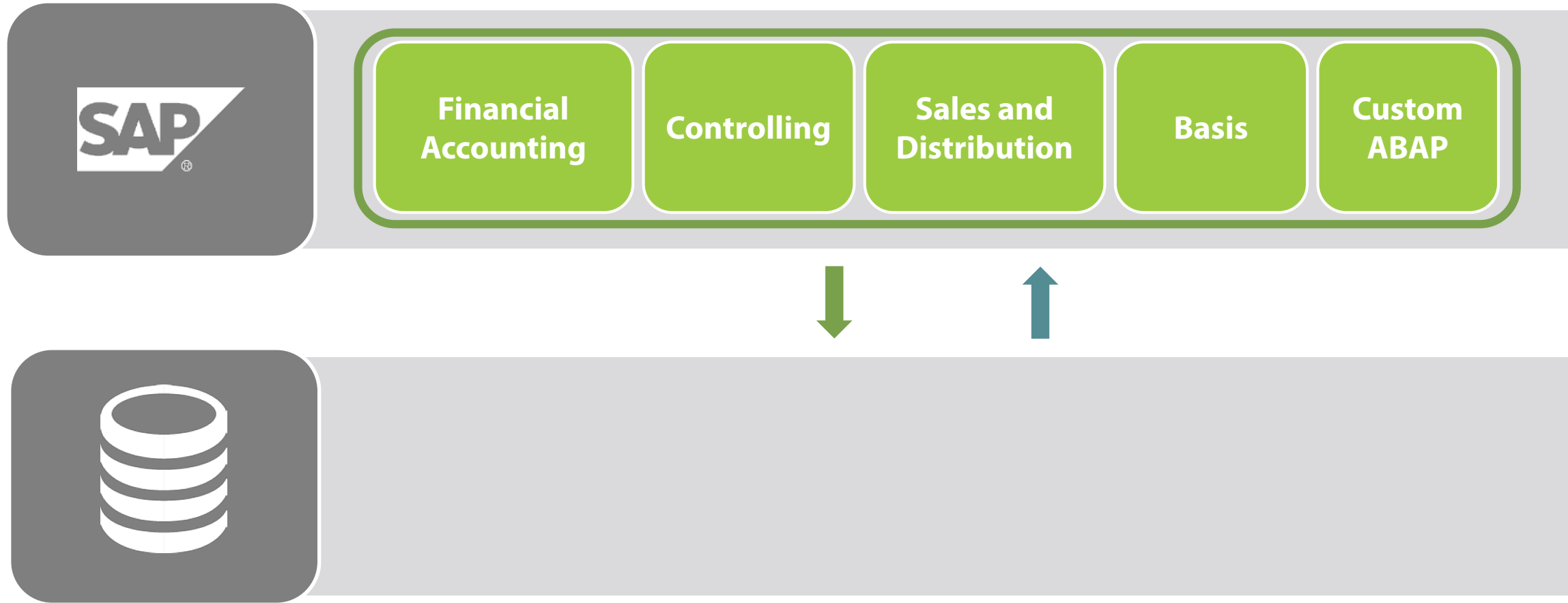
ABAP Dictionary

The Role of the ABAP Dictionary

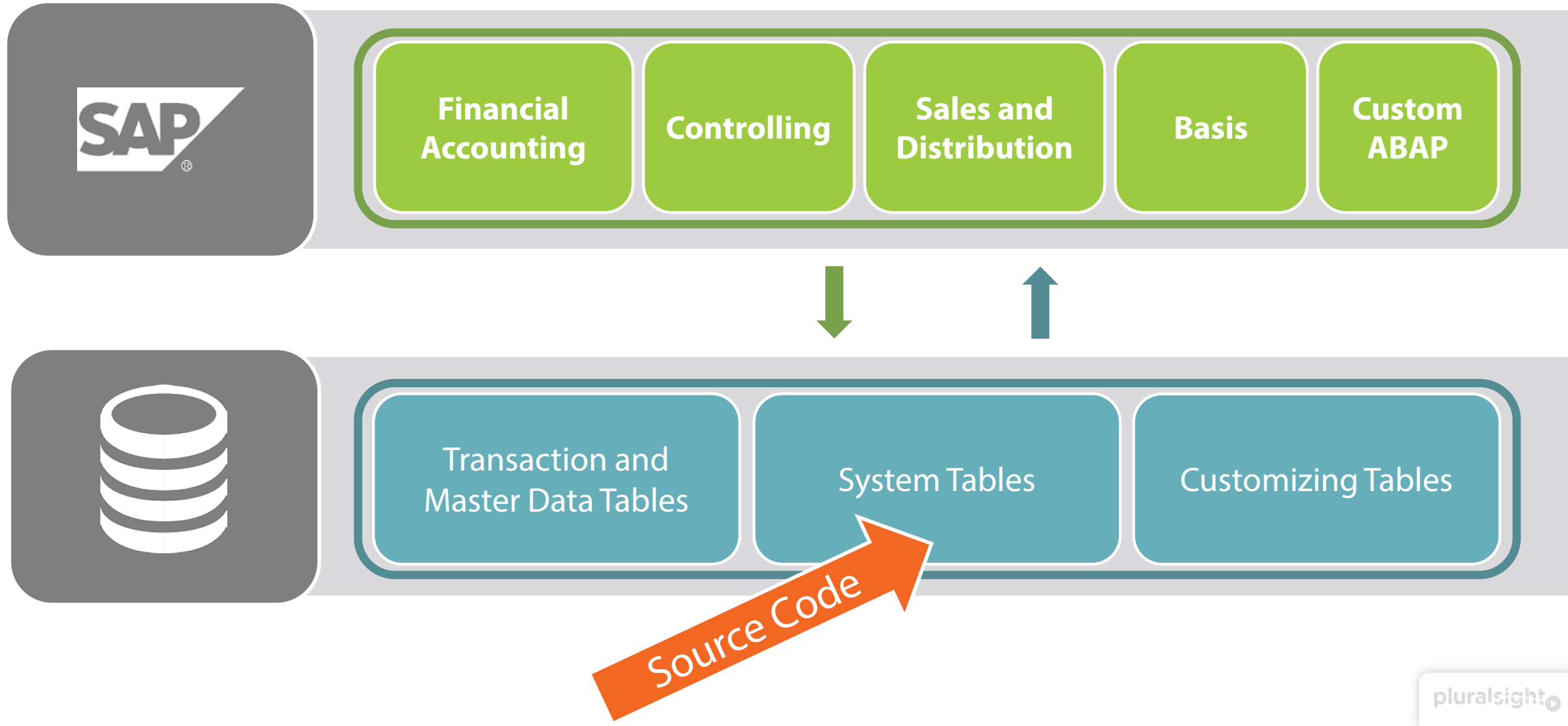
The Role of the ABAP Dictionary



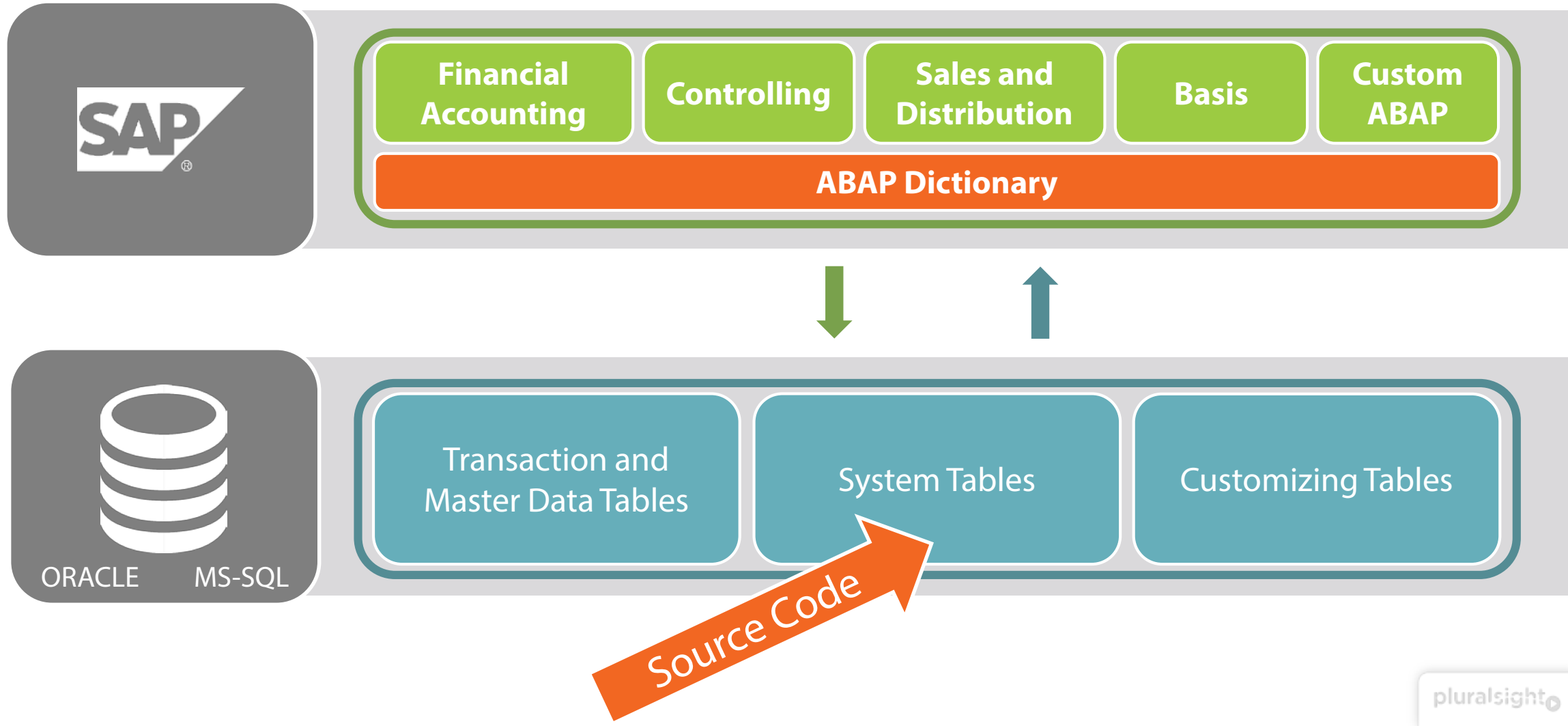
The Role of the ABAP Dictionary

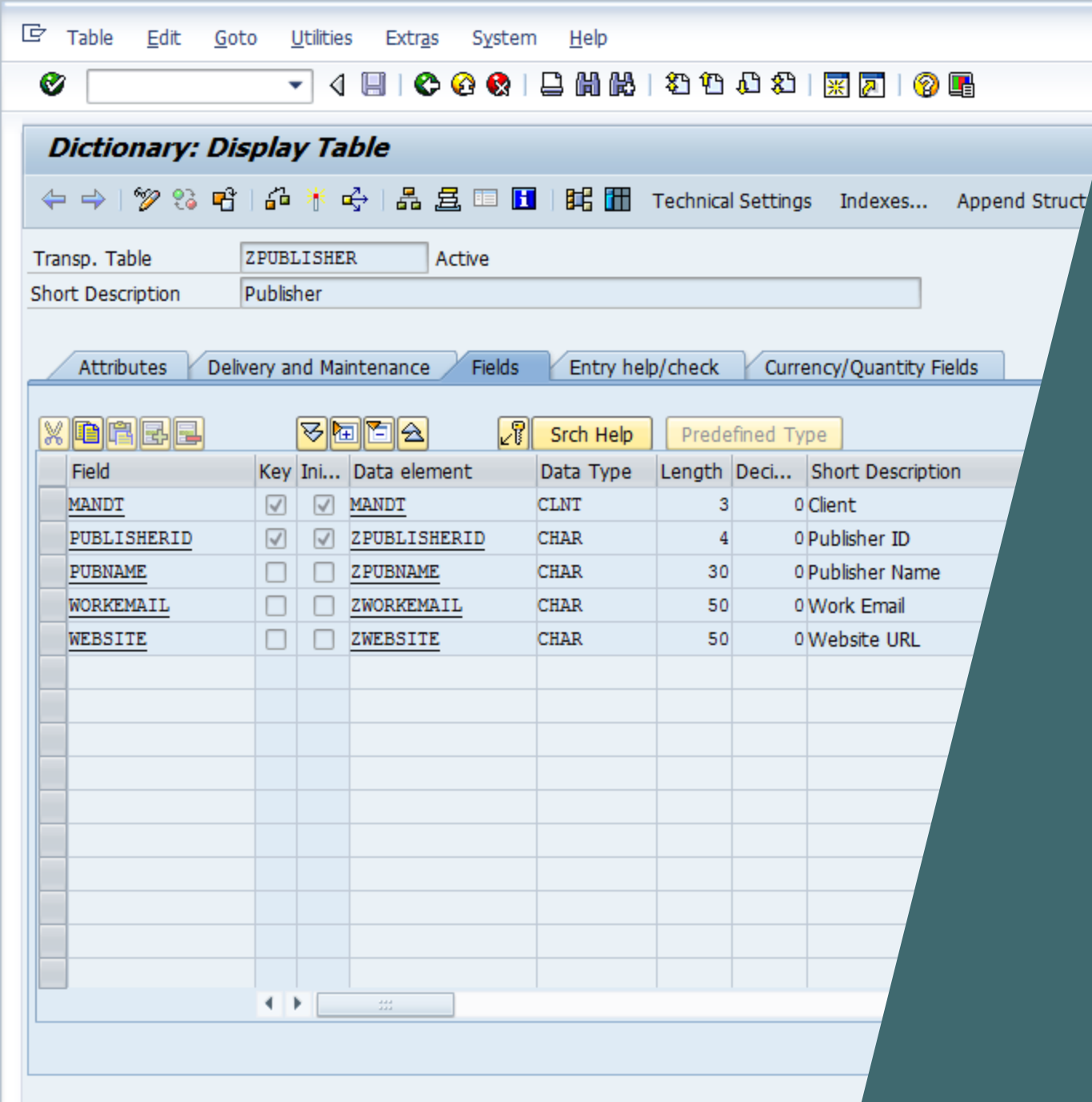


The Role of the ABAP Dictionary



The Role of the ABAP Dictionary





User-friendly UI

Data Element Edit Goto Utilities Environment System Help

Dictionary: Display Data Element

Documentation Supplementary Documentation

Data element ZWORKEMAIL Active

Short Description Work Email

Attributes Data Type Further Characteristics Field Label

☒ Elementary Type

☒ Domain ZEMAIL Email Address

Data Type CHAR Character String

Length 50

☐ Predefined Type

Data Type

Length 0

☐ Reference Type

☐ Name of Ref. Type

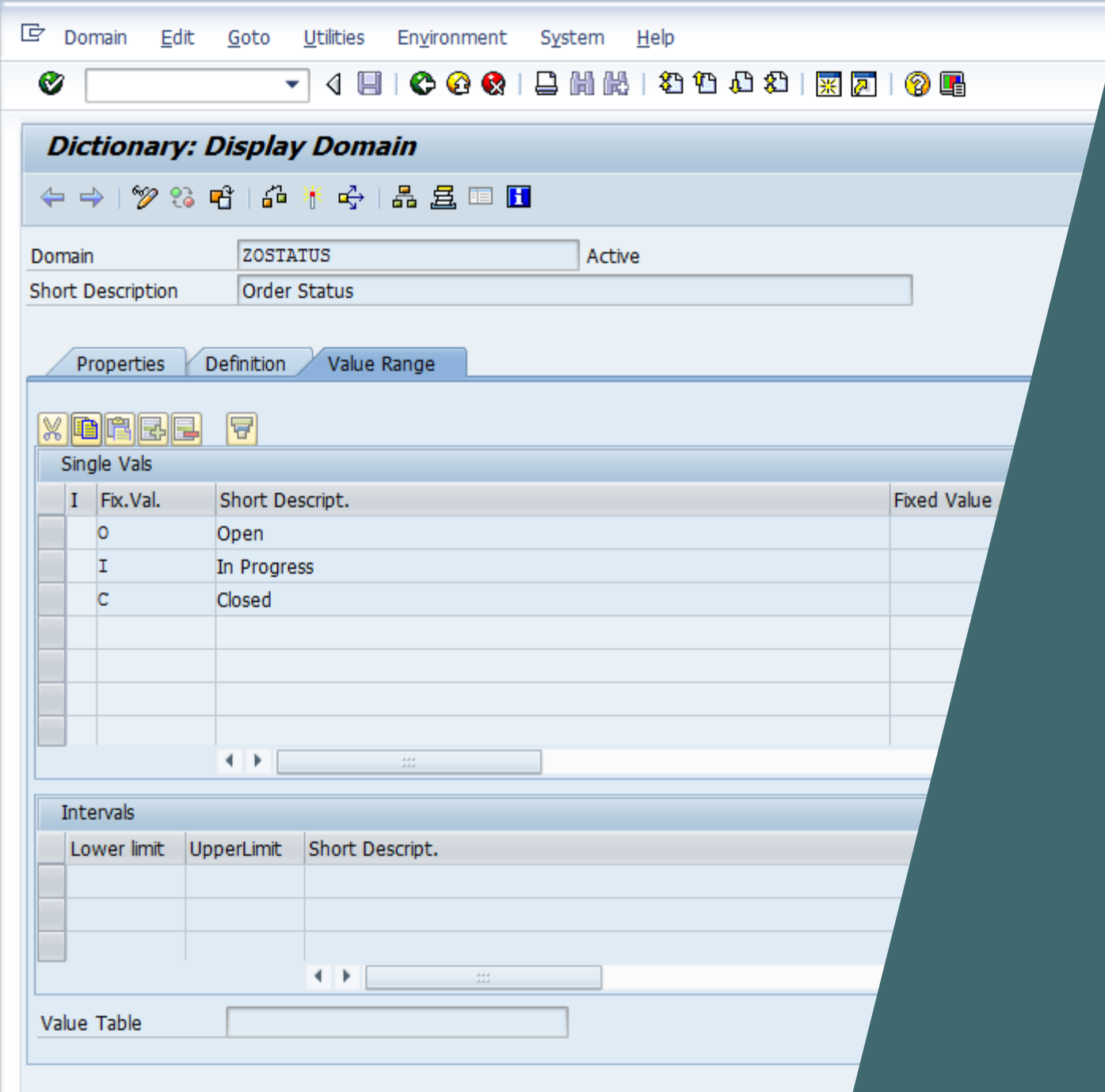
☐ Reference to Predefined Type

Data Type

Length 0

User-friendly UI

Central Meta-Data Repository



User-friendly UI

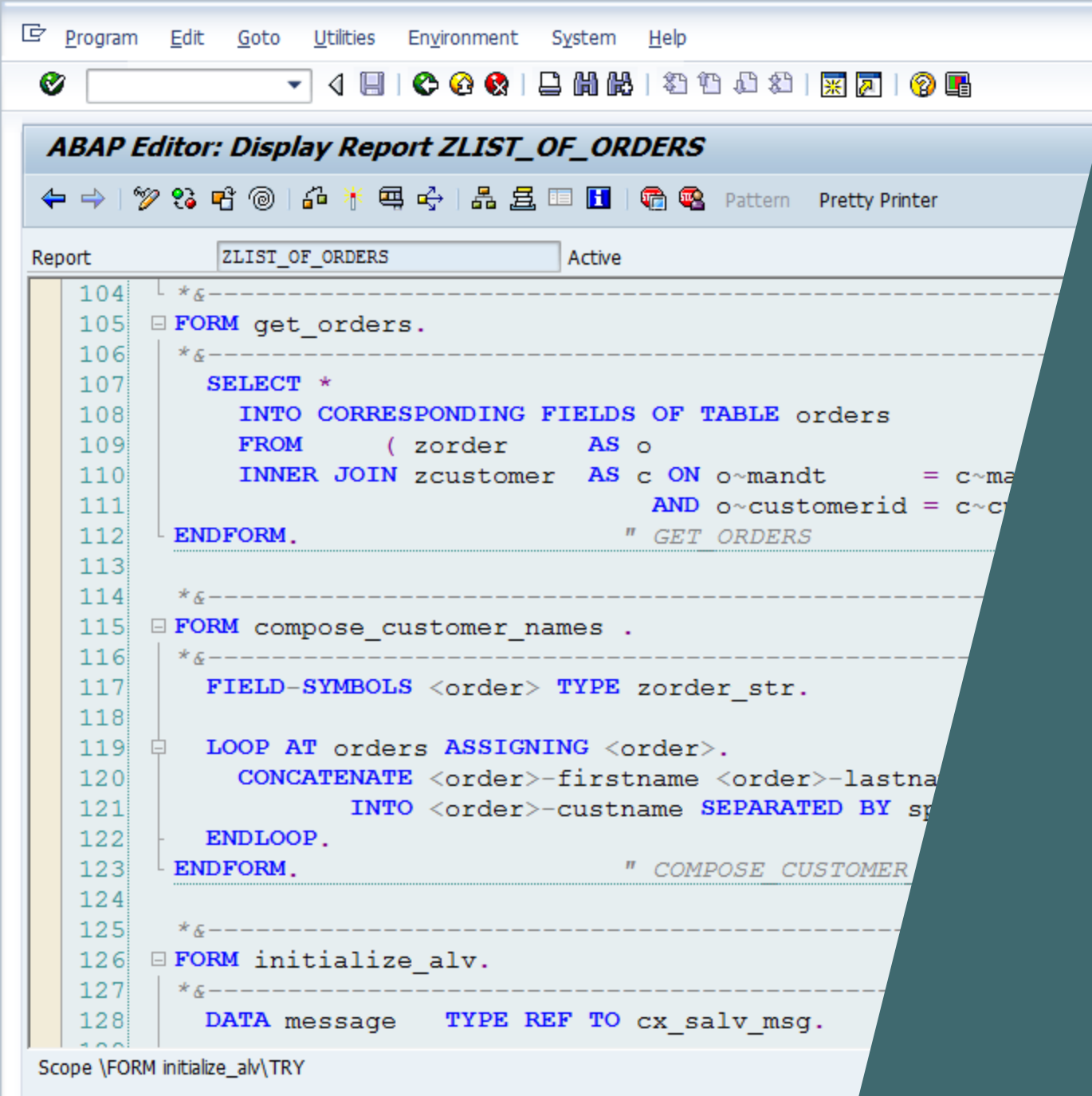
Central Meta-Data Repository

Data Integrity & Consistency

 Data Element
  Edit
  Goto
  Utilities
  Environment
  System
  Help

Central Meta-Data Repository

Decrease Maintenance Costs



User-friendly UI

Central Meta-Data Repository

Data Integrity & Consistency

Decrease Maintenance Costs

Integrated with ABAP
Workbench

ABAP Dictionary

The Elements of the ABAP Dictionary

Building Blocks

Wall

Roof



Concrete

Brick

Wood

Wood

Tile

Shingle

many different ways
to build a database



ABAP Dictionary Building Blocks

Built-in Types

Domains

Data Elements

Structures

Table Types

Database Tables

Views

Type Groups

Search Helps

Lock Objects

Built-in Types

INT2

INT4

DEC

CURR

CUKY

QUAN

UNIT

PREC

FLTP

NUMC

CHAR

LCHR

STRING

RAWSTRING

DATS

ACCP

TIMS

RAW

LRAW

CLNT

Domains

Order Status	
CHAR	1
Value Range ▼	
O – Open	
I – In Progress	
C – Closed	

Data Elements

Data Element

Billing Address

Where you are receiving the statements for your credit card.

Shipping Address

Where you want your items delivered.

Domain

Address

CHAR 80

Structures

Status of an Order

Order ID	Order Status	Billing Address	Shipping Address
----------	--------------	-----------------	------------------

Table Types

Order ID	Order Status	Billing Address	Shipping Address



Status of an Order

Order ID	Order Status	Billing Address	Shipping Address
----------	--------------	-----------------	------------------

Billing Address



Billing Address

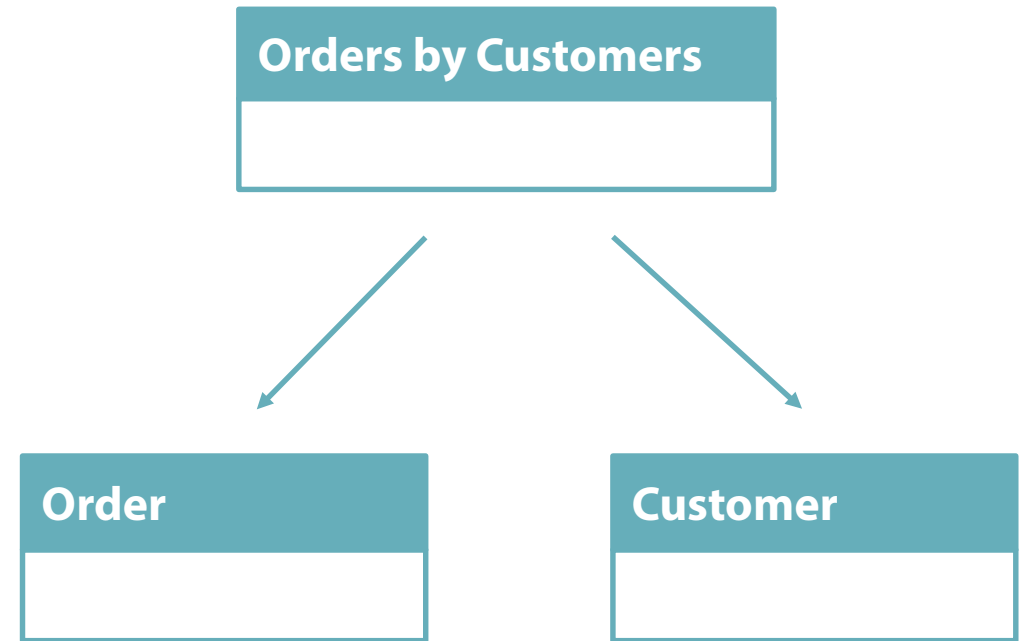
Where you are receiving the statements for your credit card.

Database Tables

ZORDER - Order

Order ID	Order Status	Billing Address	Shipping Address
O000001	O	A000000001	A000000001
O000002	C	A0000000034	A0000000034

Views

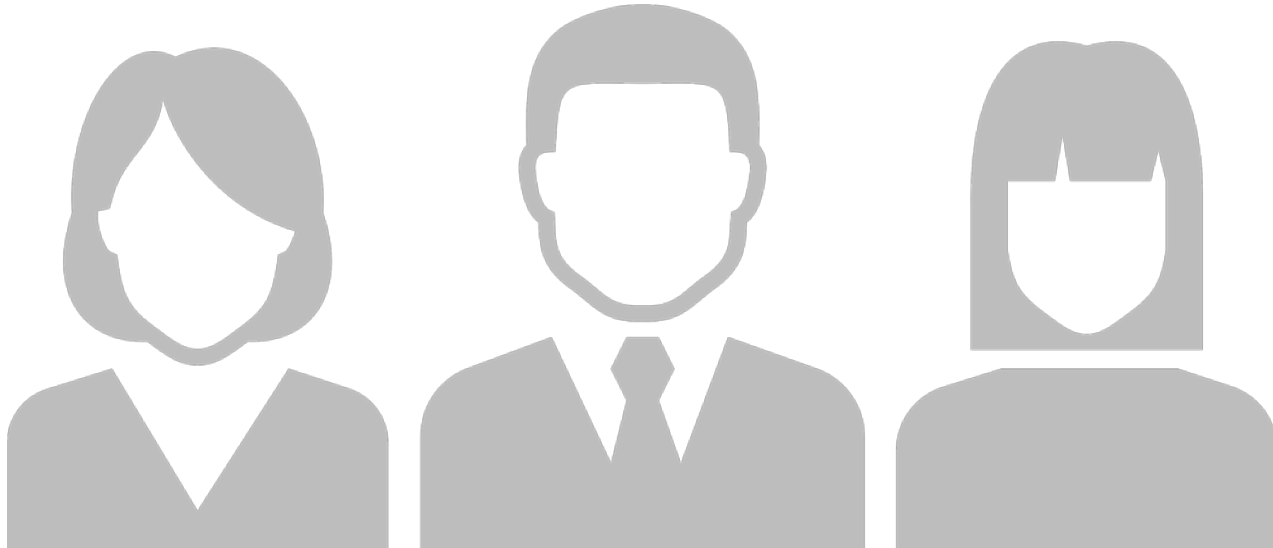
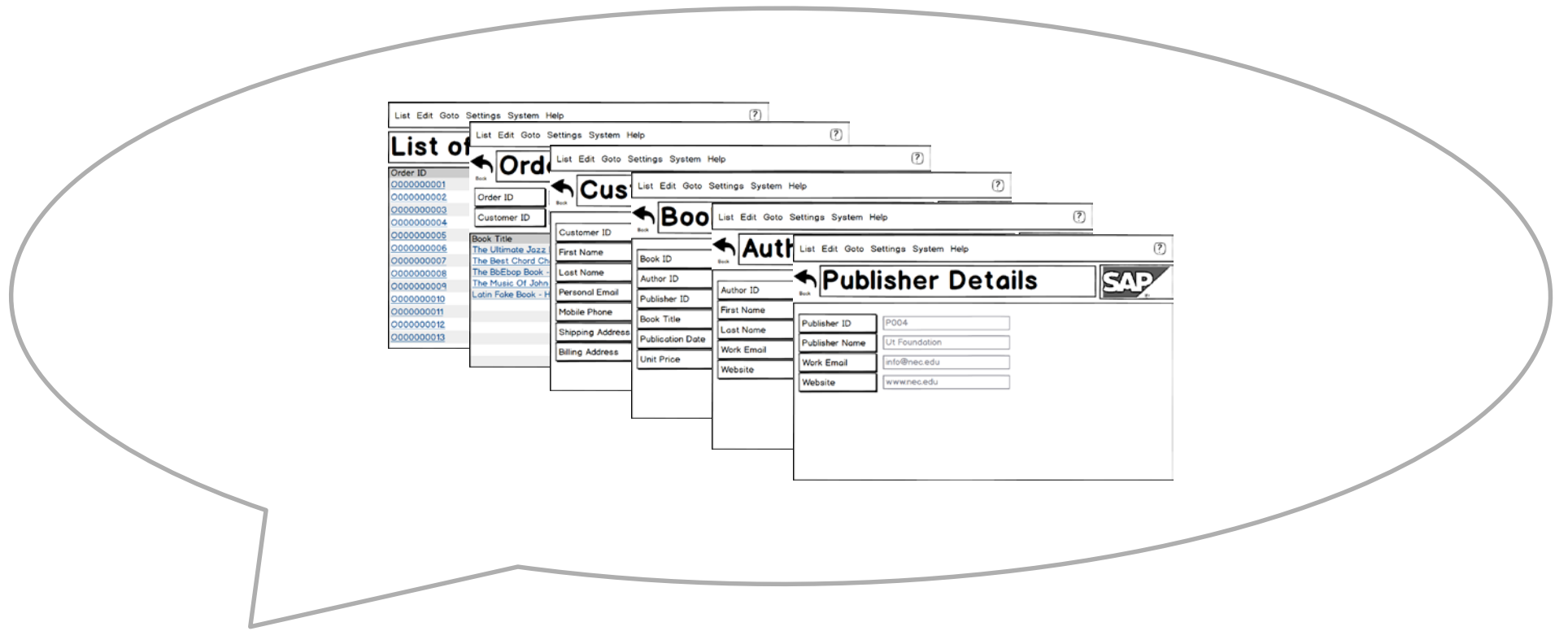


ABAP Dictionary

Development Workflow ABAP Dictionary

How To ?





List Edit Goto Settings System Help ?				
List of Orders		SAP		
Order ID	Customer Name	Order Date	Total Price	Status
O000000001	Jessamine Chambers	2013.08.28	285.05	<input type="checkbox"/>
O000000002	Tate Emerson	2014.04.30	46.18	<input checked="" type="checkbox"/>
O000000003	Quintessa Ramirez	2013.12.04	49.95	<input checked="" type="checkbox"/>
O000000004	Sarah Gaines	2014.04.07	139.84	<input type="checkbox"/>
O000000005	Demetria Henry	2014.07.28	255.37	<input type="checkbox"/>
O000000006	Wanda Burt	2014.02.23	72.72	<input type="checkbox"/>
O000000007	Derek Bullock	2013.08.21	387.36	<input type="checkbox"/>
O000000008	Nita Hampton	2014.07.04	64.62	<input type="checkbox"/>
O000000009	Jena Pruitt	2014.08.09	81.34	<input checked="" type="checkbox"/>
O000000010	Brooke Wiley	2013.12.25	720.26	<input type="checkbox"/>
O000000011	Uriah Weaver	2014.07.07	282.33	<input checked="" type="checkbox"/>
O000000012	Derek Bullock	2013.12.08	244.17	<input type="checkbox"/>
O000000013	Derek Bullock	2014.02.06	42.93	<input checked="" type="checkbox"/>

List Edit Goto Settings System Help ?				
Order Items		SAP		
Order ID	O000000001	Order Date	2013.08.28	
Customer ID	C000000020	Total Price	285.05	
Book Title	Quantity	Unit Price		
The Ultimate Jazz Fake Book - Hal Leonard - Herb Wong	2	39.97		
The Best Chord Changes For The World's Greatest Standards ...	2	20.64		
The BbEbp Book - Music Sales	2	42.93		
The Music Of John Coltrane - Hal Leonard	1	18.19		
Latin Fake Book - Hal Leonard	2	29.89		

List Edit Goto Settings System Help ?				
Customer Details		SAP		
Customer ID	C000000004			
First Name	Sarah			
Last Name	Gaines			
Personal Email	mauris.eu.elit@In.et			
Mobile Phone	1-906-620-0159			
Shipping Address	A000000004	491 Dusty G. E. Str., Colchester 40533, United States		
Billing Address	A000000004	491 Dusty G. E. Str., Colchester 40533, United States		

List Edit Goto Settings System Help ?				
Book Details		SAP		
Book ID	B000000021			
Author ID	A015	Dominique Y. Humphrey		
Publisher ID	P004	Ut Foundation		
Book Title	The Ultimate Jazz			
Publication Date	2013.04.23			
Unit Price	39.97			

List Edit Goto Settings System Help ?				
Publisher Details		SAP		
Publisher ID	P004			
Publisher Name	Ut Foundation			
Work Email	info@nec.edu			
Website	www.nec.edu			

List Edit Goto Settings System Help ?				
Author Details		SAP		
Author ID	A015			
First Name	Dominique			
Last Name	Y. Humphrey			
Work Email	fringilla@niselementumpurus.i			
Website	www.niselementumpurus.net			

Order

Order Item


Customer

Book

Publisher

Author

Order

List Edit Goto Settings System Help ?				
List of Orders				
Order ID	Customer Name	Order Date	Total Price	Status
O000000001	Jessamine Chambers	2013.08.28	285.05	<input type="checkbox"/>
O000000002	Tate Emerson	2014.04.30	46.18	<input checked="" type="checkbox"/>
O000000003	Quintessa Ramirez	2013.12.04	49.95	<input checked="" type="checkbox"/>
O000000004	Sarah Gaines	2014.04.07	139.84	<input type="checkbox"/>
O000000005	Demetria Henry	2014.07.28	255.37	<input type="checkbox"/>
O000000006	Wanda Burt	2014.02.23	72.72	<input type="checkbox"/>
O000000007	Derek Bullock	2013.08.21	387.36	<input type="checkbox"/>
O000000008	Nita Hampton	2014.07.04	64.62	<input type="checkbox"/>
O000000009	Jena Pruitt	2014.08.09	81.34	<input checked="" type="checkbox"/>
O000000010	Brooke Wiley	2013.12.25	720.26	<input type="checkbox"/>
O000000011	Uriah Weaver	2014.07.07	282.33	<input checked="" type="checkbox"/>
O000000012	Derek Bullock	2013.12.08	244.17	<input type="checkbox"/>
O000000013	Derek Bullock	2014.02.06	42.93	<input checked="" type="checkbox"/>

Order ID Customer Name Order Date Total Price Order Status

Order Item

List Edit Goto Settings System Help ?

Back **Order Items** SAP

Order ID	O000000001	Order Date	2013.08.28
Customer ID	C000000020	Total Price	285.05

Book Title	Quantity	Unit Price
The Ultimate Jazz Fake Book - Hal Leonard - Herb Wong	2	39.97
The Best Chord Changes For The World's Greatest Standards ...	2	20.64
The BbEbop Book - Music Sales	2	42.93
The Music Of John Coltrane - Hal Leonard	1	18.19
Latin Fake Book - Hal Leonard	2	29.89

Order ID Customer Name Order Date Total Price Order Status Order ID Customer ID Order Date Total Price


Book Title Quantity Unit Price

Customer

[List](#) [Edit](#) [Goto](#) [Settings](#) [System](#) [Help](#) [?](#)

[Back](#)

Customer Details



Customer ID	<input type="text" value="C000000004"/>
First Name	<input type="text" value="Sarah"/>
Last Name	<input type="text" value="Gaines"/>
Personal Email	<input type="text" value="mauris.eu.elit@In.e"/>
Mobile Phone	<input type="text" value="1-906-620-0159"/>
Shipping Address	A000000004 491 Dusty G. E. Str., Colchester 40533, United States
Billing Address	A000000004 491 Dusty G. E. Str., Colchester 40533, United States

Order ID	Customer Name	Order Date	Total Price	Order Status	Order ID	Customer ID	Order Date	Total Price
Book Title	Quantity	Unit Price	Customer ID	First Name	Last Name	Personal Email	Mobile Phone	
Shipping Address	Billing Address							

Book

List Edit Goto Settings System Help ?

← Back

Book Details

SAP

Book ID	B000000021		
Author ID	A015	Dominique Y. Humphrey	
Publisher ID	P004	Ut Foundation	
Book Title	The Ultimate Jazz		
Publication Date	2013.04.23		
Unit Price	39.97		


Order ID Customer Name Order Date Total Price Order Status Order ID Customer ID Order Date Total Price
Book Title Quantity Unit Price Customer ID First Name Last Name Personal Email Mobile Phone
Shipping Address Billing Address Book ID Author ID Publisher ID Book Title Publication Date Unit Price

Publisher

[List](#) [Edit](#) [Goto](#) [Settings](#) [System](#) [Help](#) [?](#)

[← Back](#)

Publisher Details



Publisher ID	<input type="text" value="P004"/>
Publisher Name	<input type="text" value="Ut Foundation"/>
Work Email	<input type="text" value="info@nec.edu"/>
Website	<input type="text" value="www.nec.edu"/>

Order ID Customer Name Order Date Total Price Order Status Order ID Customer ID Order Date Total Price
Book Title Quantity Unit Price Customer ID First Name Last Name Personal Email Mobile Phone
Shipping Address Billing Address Book ID Author ID Publisher ID Book Title Publication Date Unit Price
Publisher ID Publisher Name Work Email Website

Author

List Edit Goto Settings System Help ?

← Author Details SAP

Back

Author ID	A015
First Name	Dominique
Last Name	Y. Humphrey
Work Email	fringilla@nislelementumpurus.i
Website	www.nislelementumpurus.net

Order ID Customer Name Order Date Total Price Order Status Order ID Customer ID Order Date Total Price
Book Title Quantity Unit Price Customer ID First Name Last Name Personal Email Mobile Phone
Shipping Address Billing Address Book ID Author ID Publisher ID Book Title Publication Date Unit Price
Publisher ID Publisher Name Work Email Website Author ID First Name Last Name Work Email Website

List of Potential Fields

Order ID Customer Name Order Date Total Price Order Status Order ID Customer ID Order Date Total Price
Book Title Quantity Unit Price Customer ID First Name Last Name Personal Email Mobile Phone
Shipping Address Billing Address Book ID Author ID Publisher ID Book Title Publication Date Unit Price
Publisher ID Publisher Name Work Email Website Author ID First Name Last Name Work Email Website

List of Potential Fields

Order ID Customer Name Order Date Total Price Order Status *Order ID* Customer ID *Order Date* *Total Price*
Book Title Quantity Unit Price *Customer ID* First Name Last Name Personal Email Mobile Phone
Shipping Address Billing Address Book ID Author ID Publisher ID *Book Title* Publication Date *Unit Price*
Publisher ID Publisher Name Work Email Website *Author ID* *First Name* *Last Name* *Work Email* *Website*

List of Potential Fields

Order ID	Customer Name	Order Date	Total Price	Order Status	Customer ID		
Book Title	Quantity	Unit Price		First Name	Last Name	Personal Email	Mobile Phone
Shipping Address	Billing Address	Book ID	Author ID	Publisher ID	Publication Date		
	Publisher Name	Work Email	Website				

List of Potential Fields

Order ID Customer ID Book ID Author ID Publisher ID

Order Date Publication Date

Total Price Unit Price

Shipping Address Billing Address

Personal Email Work Email 

Publisher Name Customer Name

First Name Last Name

Book Title Website Mobile Phone Order Status Quantity

Email
CHAR 50

Development Workflow

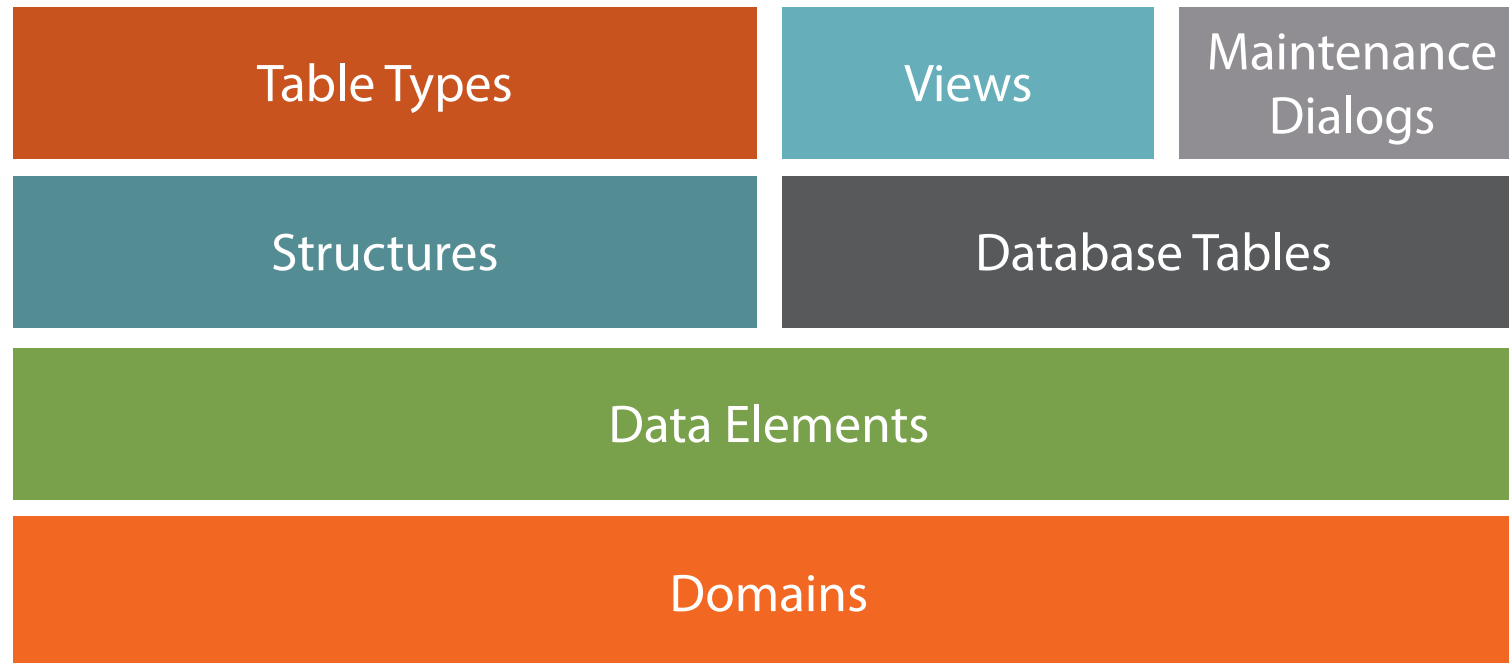
Table Types

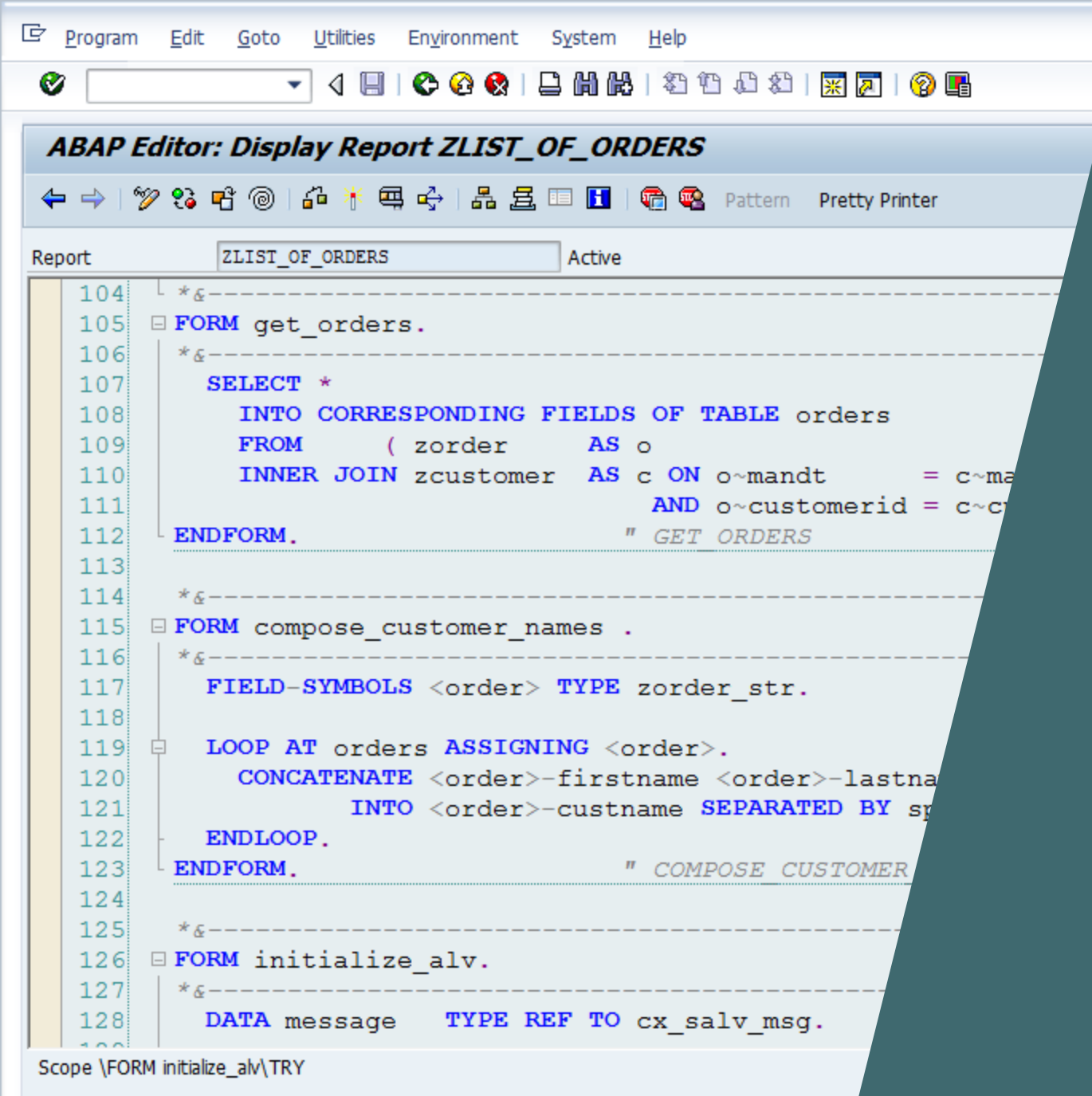
Structures

Data Elements

Domains

Development Workflow





User-friendly UI

Central Meta-Data Repository

Data Integrity & Consistency

Decrease Maintenance Costs

Integrated with ABAP
Workbench

ABAP Dictionary Building Blocks

Built-in Types

Domains

Data Elements

Structures

Table Types

Database Tables

Views

Type Groups

Search Helps

Lock Objects

Order

Order Item

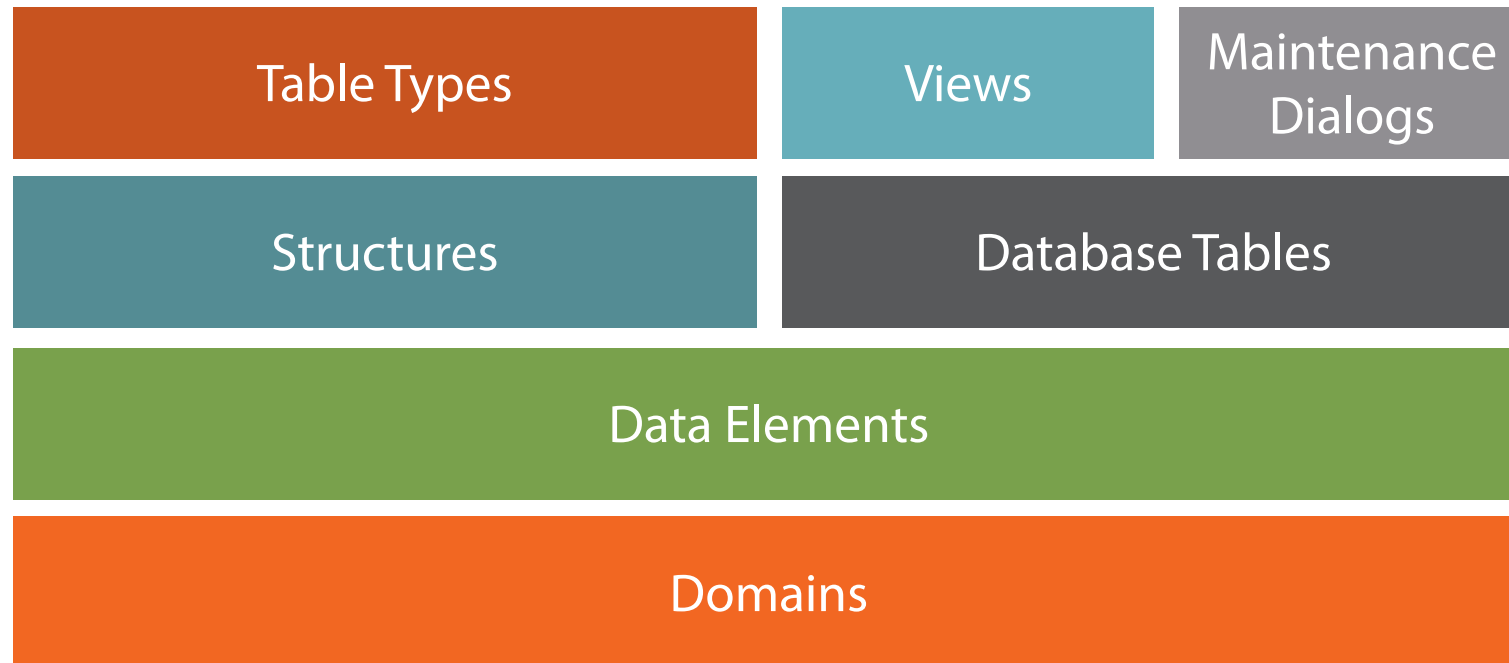
Customer

Book

Publisher

Author

Development Workflow



Development Workflow

