

# Domain



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# Domain

Two-Level Domain Concept: Domain

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Fields

Structure

Author ID	Work Email	Website

Table Type

Personal Email

Database Table

Publisher ID	Work Email	Website

Fields

Structure

Author ID	Work Email	Website
CHAR 4	CHAR 50	CHAR 50

Table Type

Personal Email
CHAR 50

Database Table

Publisher ID	Work Email	Website
CHAR 4	CHAR 50	CHAR 50

Fields

Structure

Author ID	Work Email	Website

Table Type

Personal Email

Database Table

Publisher ID	Work Email	Website

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 50	CHAR 4

Field

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

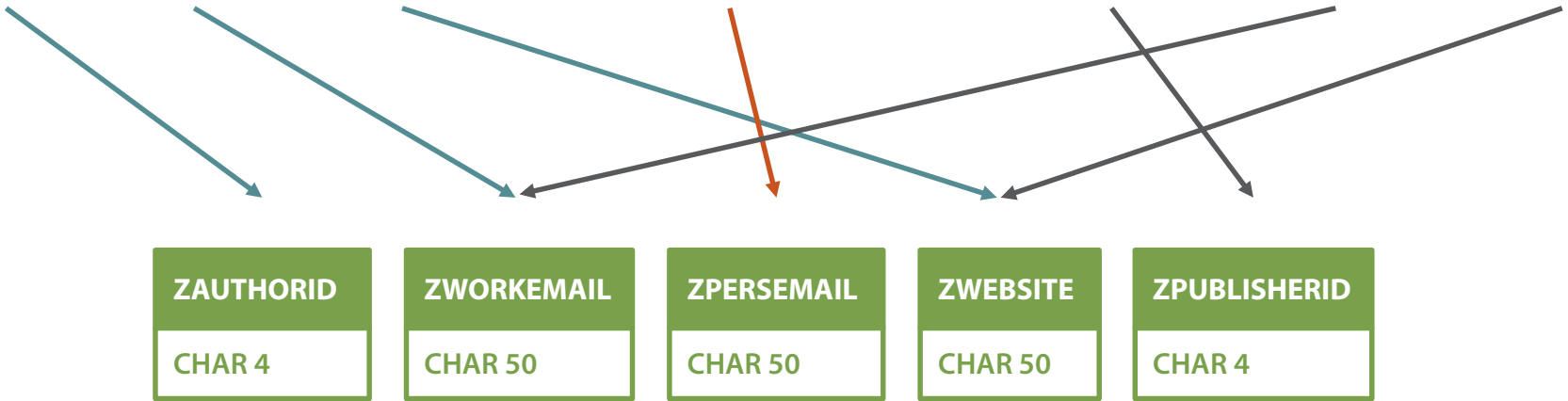
Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements



Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

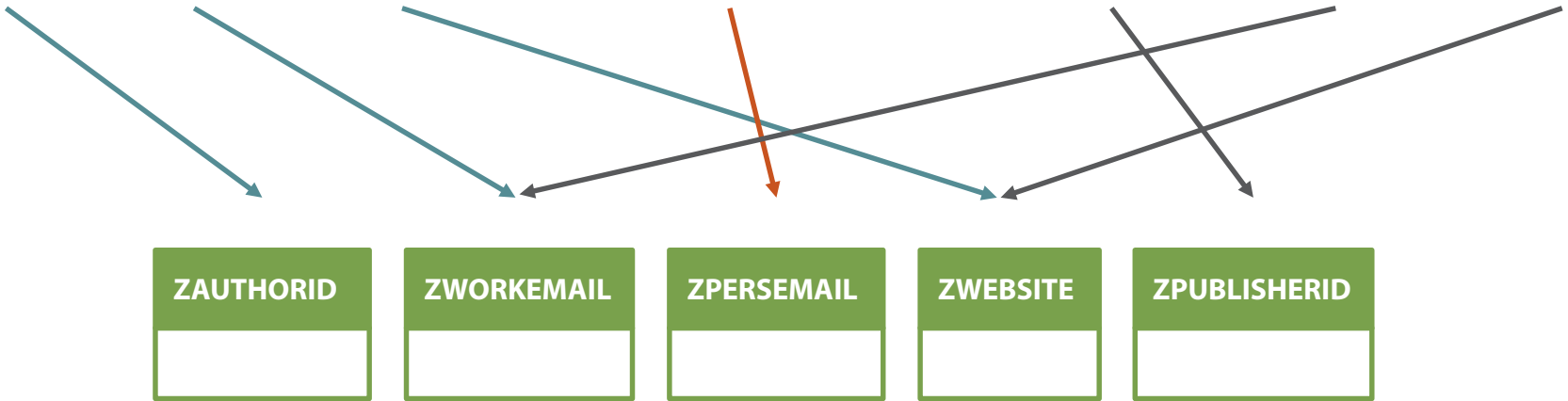
Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements



Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4



Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL
ZAUTHORID	ZEMAIL	ZEMAIL

Definition  
Two-Level Domain Concept

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4



Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

Table Type

Personal Email
ZPERSEMAIL

Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements

ZAUTHORID	ZWORKEMAIL	ZPERSEMAIL	ZWEBSITE	ZPUBLISHERID
ZAUTHORID	ZEMAIL	ZEMAIL	ZURL	ZPUBLISHERID

Domains

ZAUTHORID	ZEMAIL	ZURL	ZPUBLISHERID
CHAR 4	CHAR 50	CHAR 50	CHAR 4

# Benefits of Two-Level Domain Concept

Reusability

Centralized  
Maintenance

Next

**Decrease the Maintenance  
Cost with Domains**





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# Domain

Decrease the Maintenance Cost with Domains

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# ABAP Dictionary Design

Built-in  
Types

Two-Level  
Domain Concept

# ABAP Dictionary Design

Built-in  
Types

Two-Level  
Domain Concept

Structure



Database Table



Structure

...	Work Email	...
...	CHAR 50	...

Database Table

...	Personal Email	Work Email
...	CHAR 50	CHAR 50

## Structure

...	Work Email	...
...	CHAR 60	...

## Database Table

...	Personal Email	Work Email
...	CHAR 60	CHAR 60



# ABAP Dictionary Design

Built-in  
Types

Two-Level  
Domain Concept

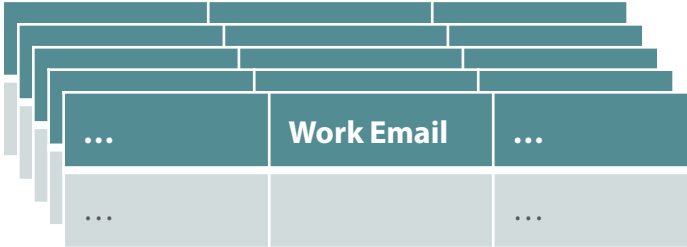
# ABAP Dictionary Design

Built-in  
Types

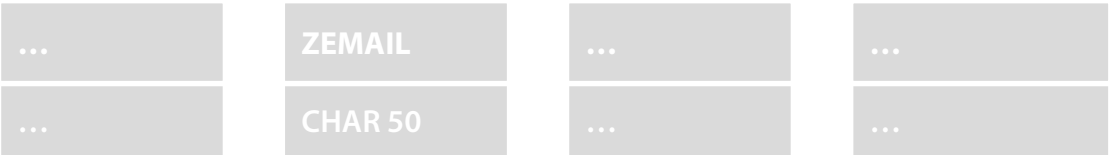
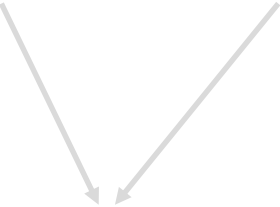
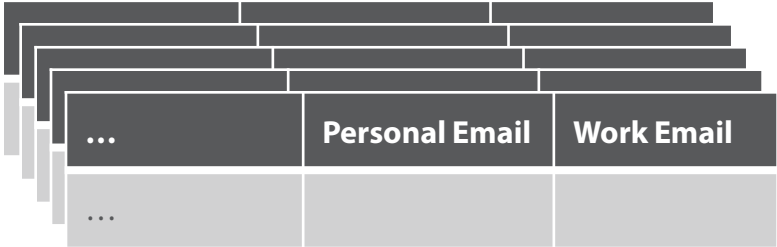
Two-Level  
Domain Concept



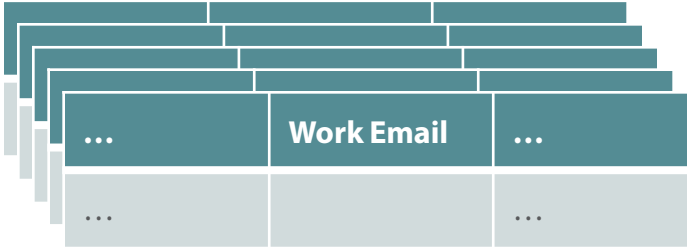
Structure



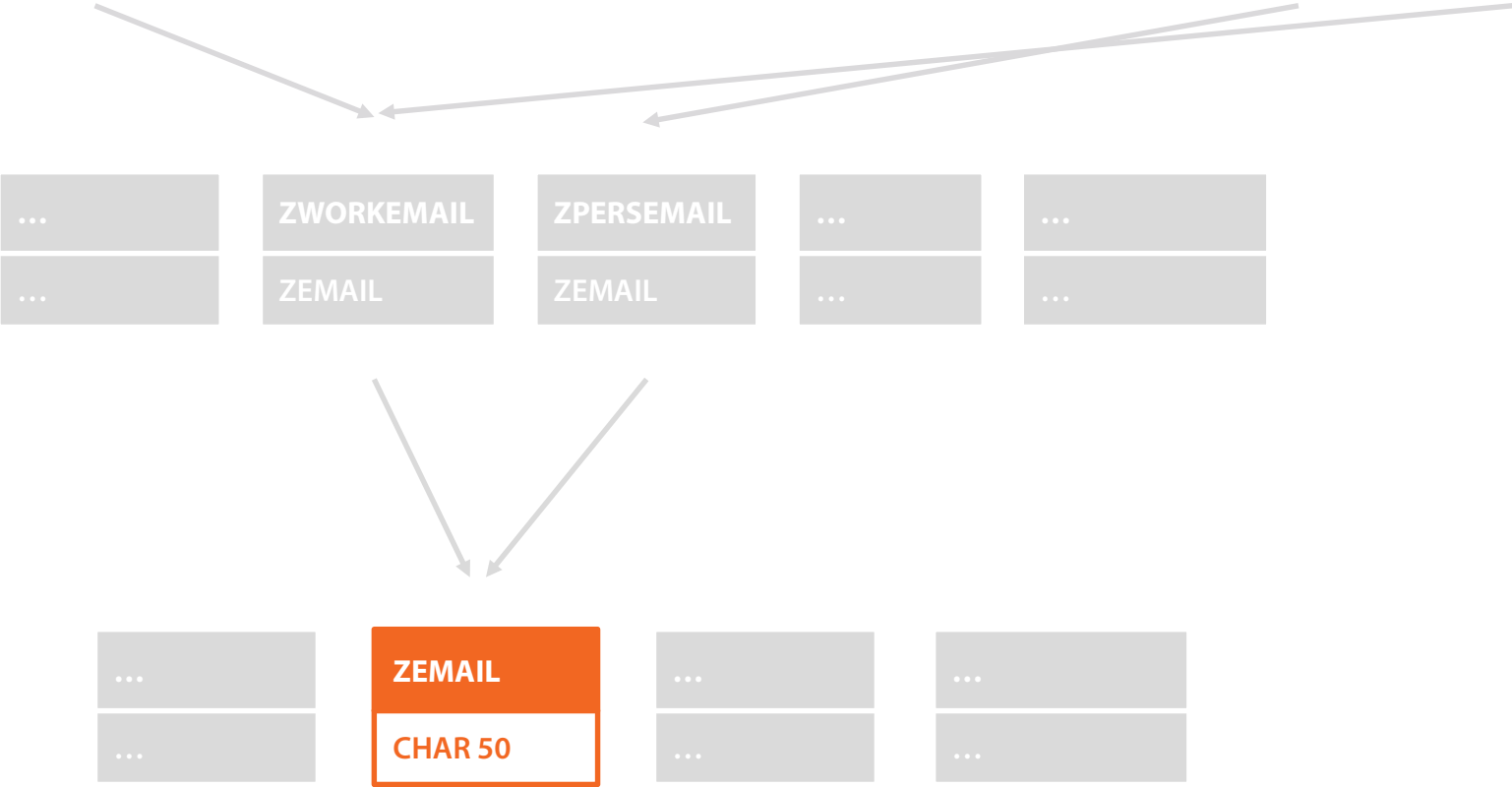
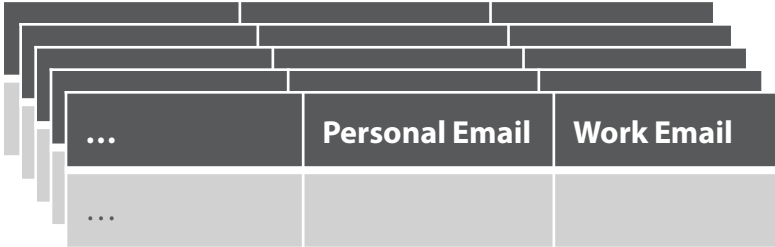
Database Table



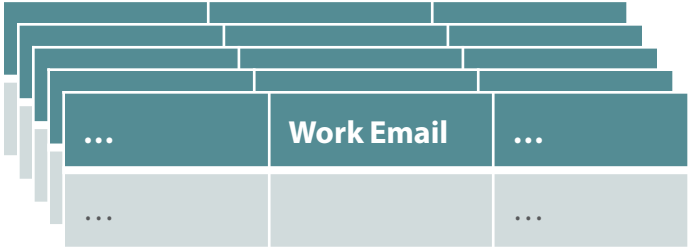
Structure



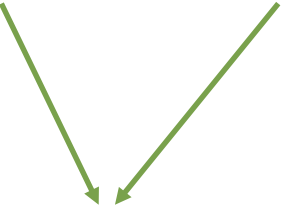
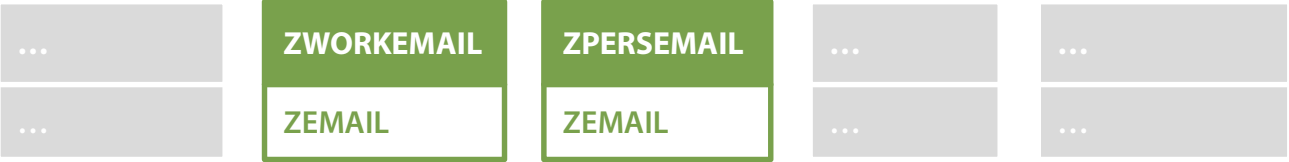
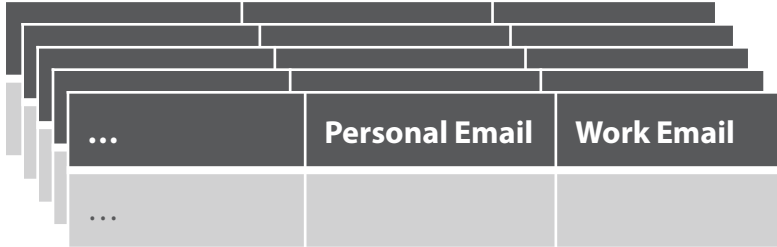
Database Table



# Structure



# Database Table

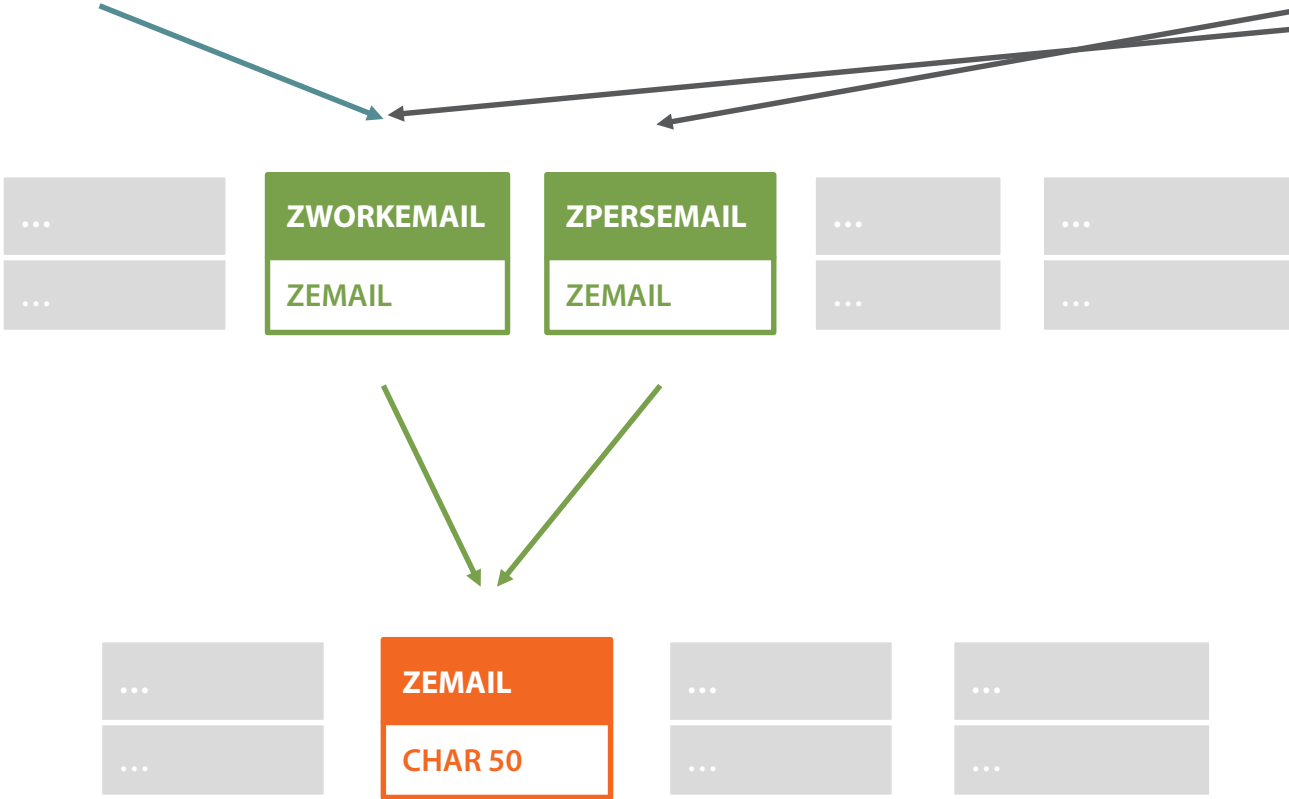


Structure

...	Work Email	...
...	ZWORKEMAIL	...

Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL



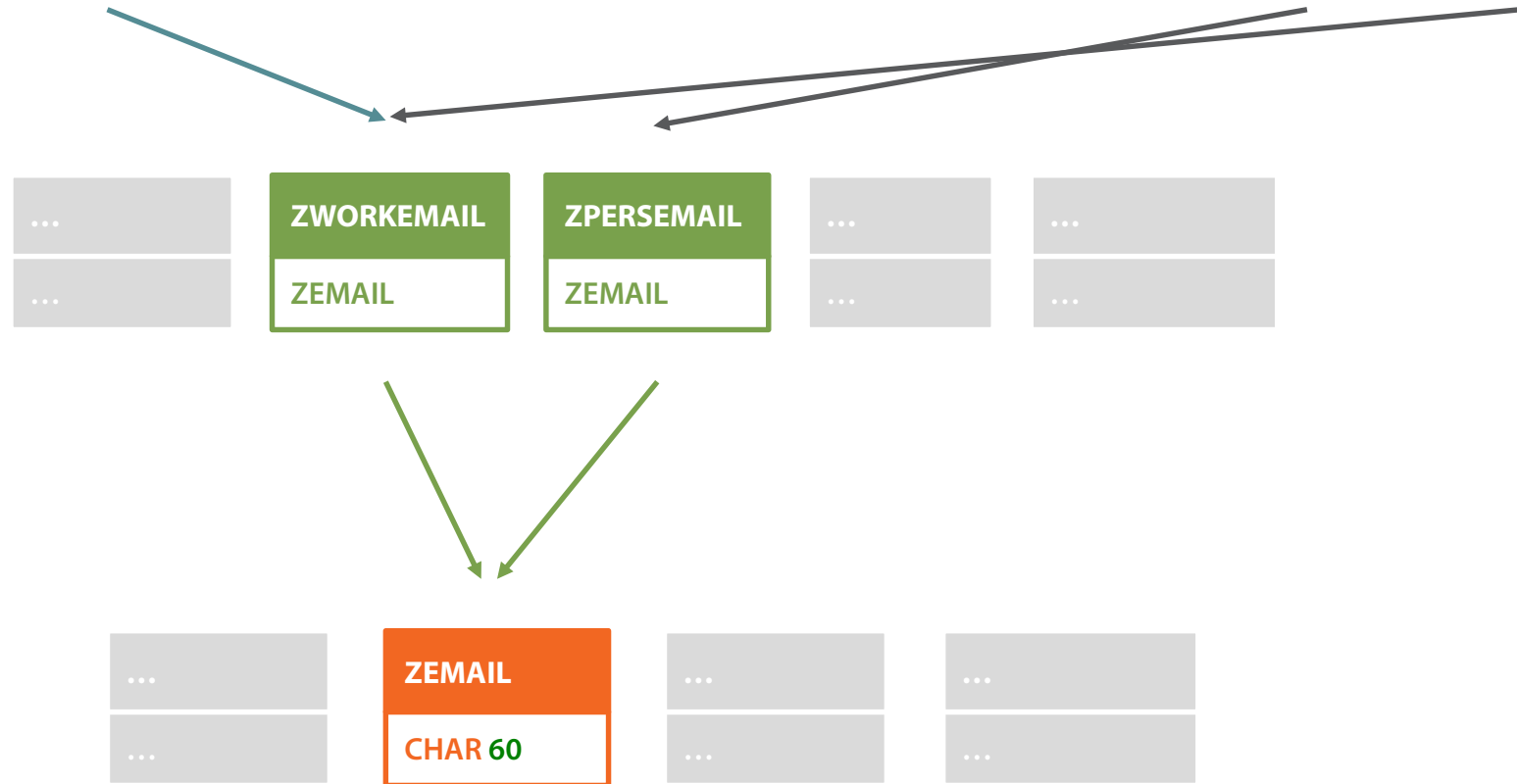
## Structure

...	Work Email	...
...	ZWORKEMAIL	...

## Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL

1x



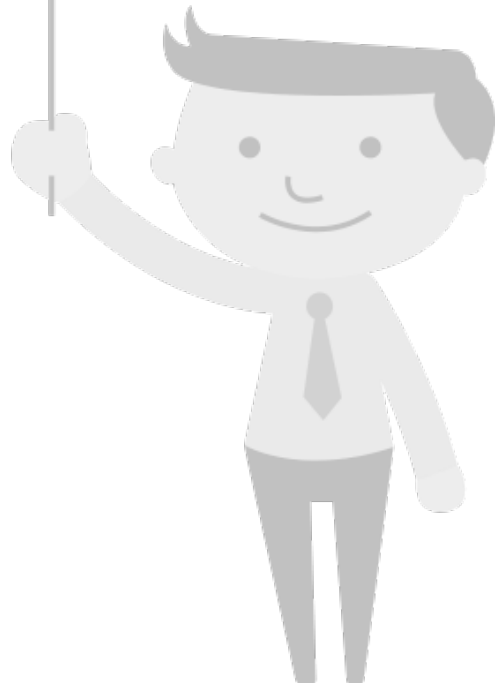
## Structure

...	Work Email	...
...	ZWORKEMAIL	...

## Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL

1x



...	ZWORKEMAIL	ZPERSEMAIL
...	ZEMAIL	ZEMAIL

Next  
Provide Consistency with  
Domains

...	ZEMAIL	...	...
...	CHAR 60	...	...



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# Domain

Provide Consistency with Domains

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# Provide Consistency with Domains

Meta-Data  
Consistency

Data  
Consistency



# Provide Consistency with Domains

Meta-Data  
Consistency

Data  
Consistency

15x

Structure

...	Work Email	...
...	CHAR 50	...

Database Table

...	Personal Email	Work Email
...	CHAR 50	CHAR 50

15x

Structure

...	Work Email	...
...	CHAR 60	...

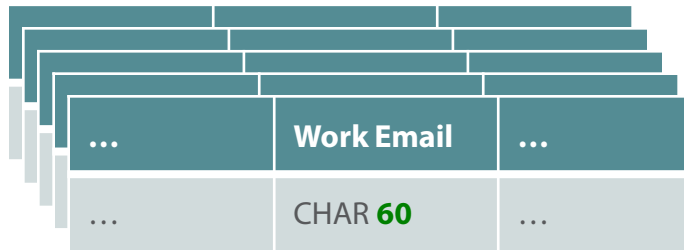
Correct

Database Table

...	Personal Email	Work Email
...	CHAR 50	CHAR 50

15x

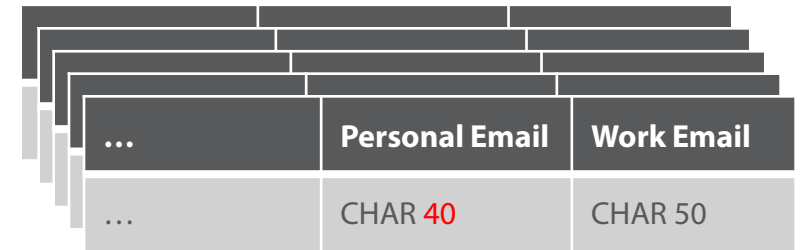
## Structure



...	Work Email	...
...	CHAR 60	...

Correct

## Database Table



...	Personal Email	Work Email
...	CHAR 40	CHAR 50

Typo

15x

## Structure

...	Work Email	...
...	CHAR 60	...

Correct

## Database Table

...	Personal Email	Work Email
...	CHAR 40	CHAR 50

Typo

Missed

No

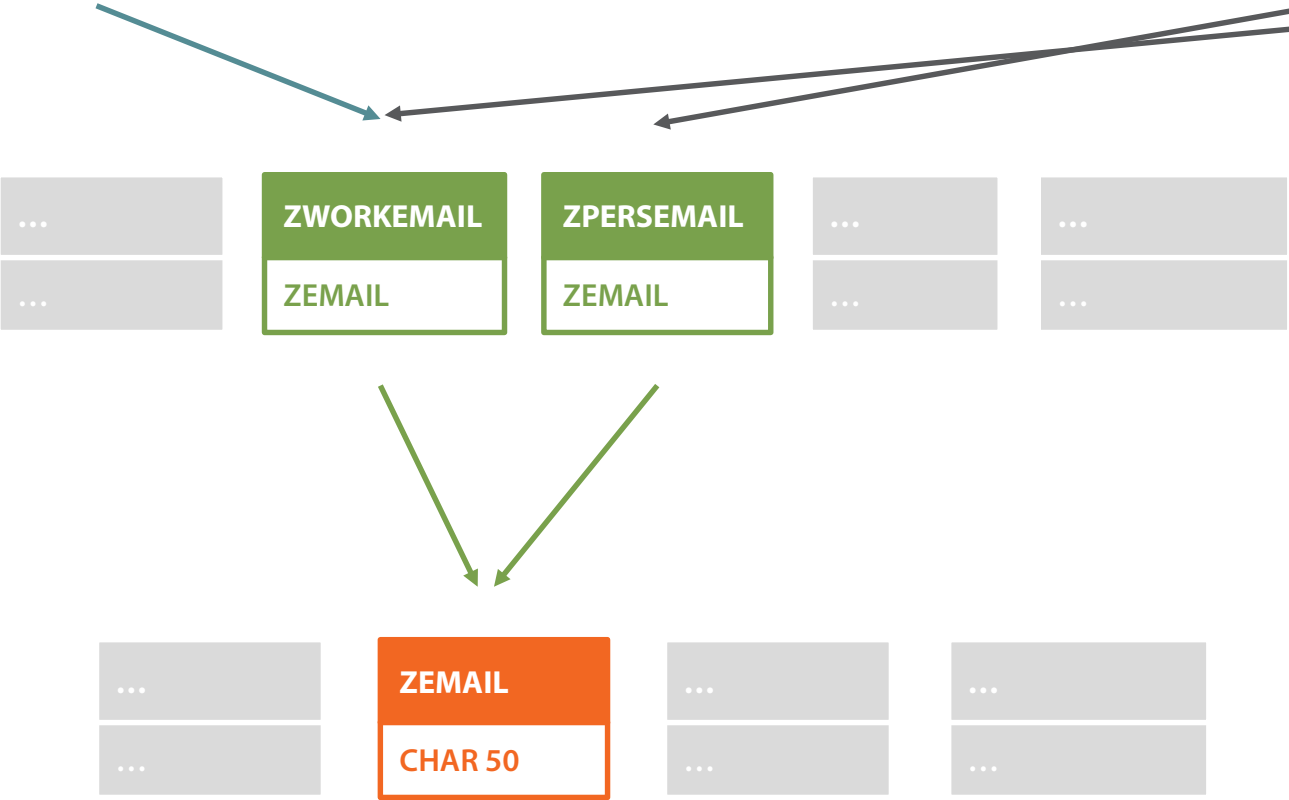


# Structure

...	Work Email	...
...	ZWORKEMAIL	...

# Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL



## Structure

...	Work Email	...
...	ZWORKEMAIL	...

## Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL

Yes



...	ZWORKEMAIL	ZPERSEMAIL	...	...
...	ZEMAIL	ZEMAIL	...	...

1x

...	ZEMAIL	...	...
...	CHAR 60	...	...

# Provide Consistency with Domains

Meta-Data  
Consistency

Data  
Consistency



# Provide Consistency with Domains

Meta-Data  
Consistency

Data  
Consistency

Customer

...	Customer Rating	...
...	INT	...

Vendor

...	...	Vendor Rating
...	...	INT

Employee

...	Employee Rating	...
...	INT	...



Customer

...	Customer Rating	...
...	INT	...

Vendor

...	...	Vendor Rating
...	...	INT

Employee

...	Employee Rating	...
...	INT	...



Customer

...	Customer Rating	...
...	INT	...

Vendor

...	...	Vendor Rating
...	...	INT

Employee

...	Employee Rating	...
...	INT	...



## Customer

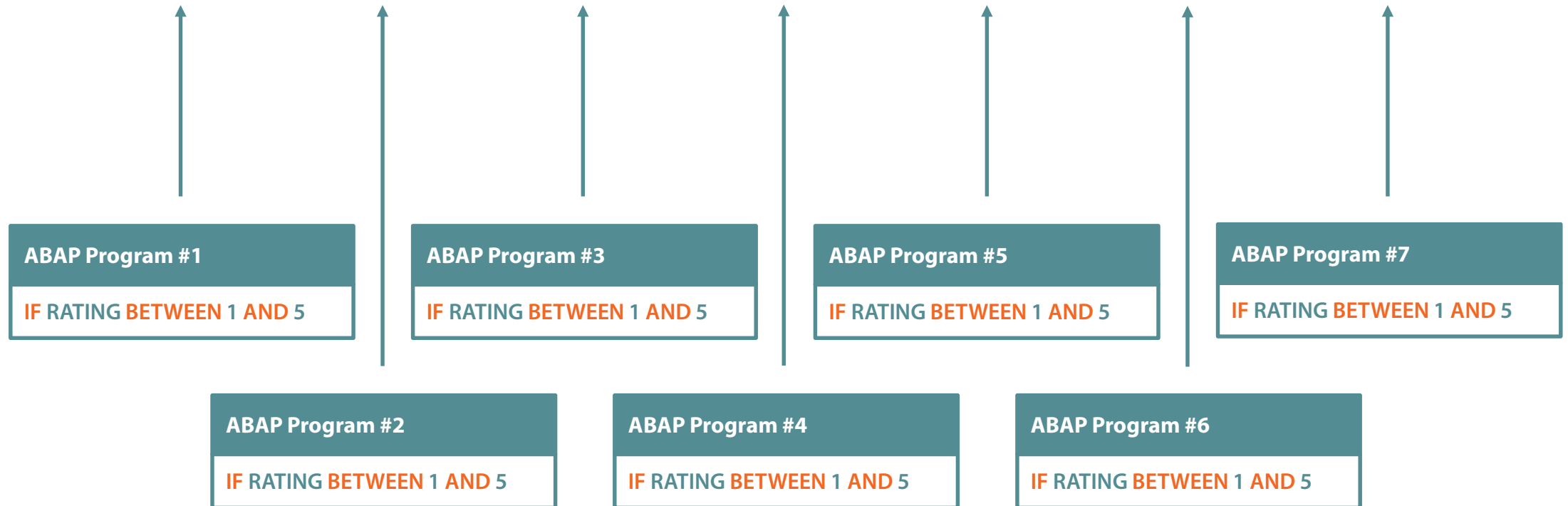
...	Customer Rating	...
...	INT	...

## Vendor

...	...	Vendor Rating
...	...	INT

## Employee

...	Employee Rating	...
...	INT	...



## Customer

...	Customer Rating	...
...	INT	...

## Vendor

...	...	Vendor Rating
...	...	INT

## Employee

...	Employee Rating	...
...	INT	...

No

ABAP Program #1

IF RATING BETWEEN 1 AND 5

ABAP Program #3

IF RATING BETWEEN 1 AND 5

ABAP Program #5

IF RATING BETWEEN 1 AND 5

ABAP Program #7

IF RATING BETWEEN 1 AND 5

ABAP Program #2

IF RATING BETWEEN 1 AND 5

ABAP Program #4

IF RATING BETWEEN 1 AND 5

ABAP Program #6

IF RATING BETWEEN 1 AND 5

## Customer

...	Customer Rating	...
...	ZCRATING	...

## Vendor

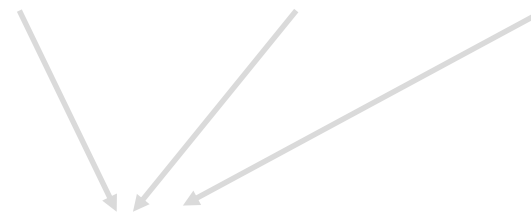
...	...	Vendor Rating
...	...	ZVRATING

## Employee

...	Employee Rating	...
...	ZERATING	...



...	ZCRATING	ZVRATING	ZERATING	...
...	ZRATING	ZRATING	ZRATING	...



...	ZRATING	...	...
...	INT	...	...
	VALUE RANGE		

## Customer

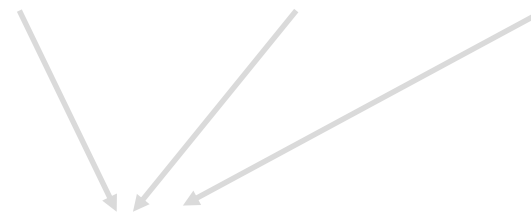
...	Customer Rating	...
...	ZCRATING	...

## Vendor

...	...	Vendor Rating
...	...	ZVRATING

## Employee

...	Employee Rating	...
...	ZERATING	...





## Customer

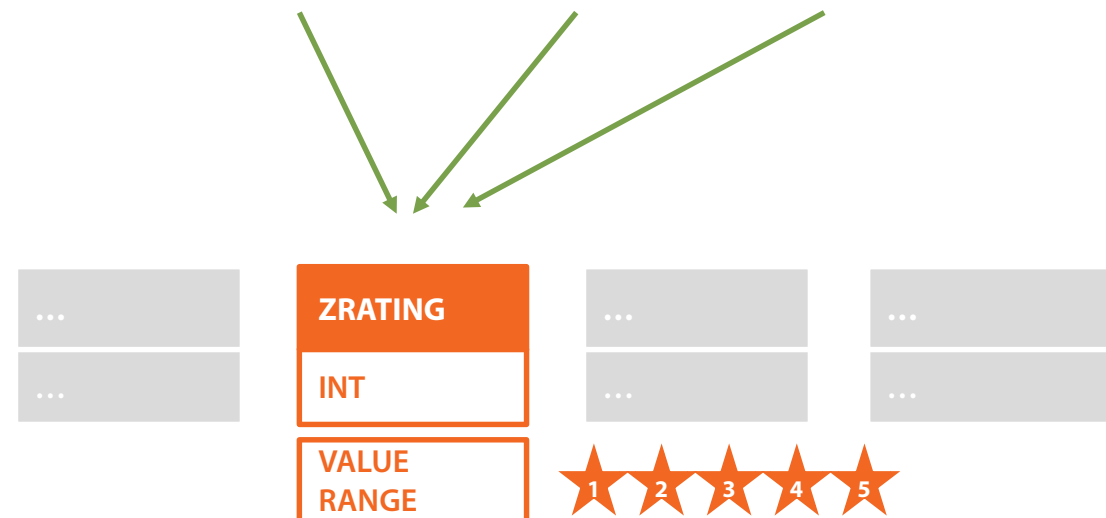
...	Customer Rating	...
...	ZCRATING	...

## Vendor

...	...	Vendor Rating
...	...	ZVRATING

## Employee

...	Employee Rating	...
...	ZERATING	...



## Customer

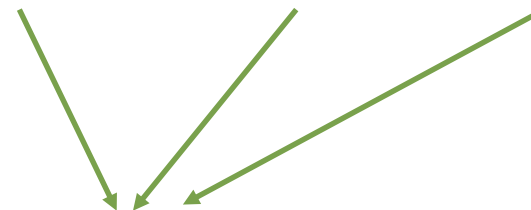
...	Customer Rating	...
...	ZCRATING	...

## Vendor

...	...	Vendor Rating
...	...	ZVRATING

## Employee

...	Employee Rating	...
...	ZERATING	...

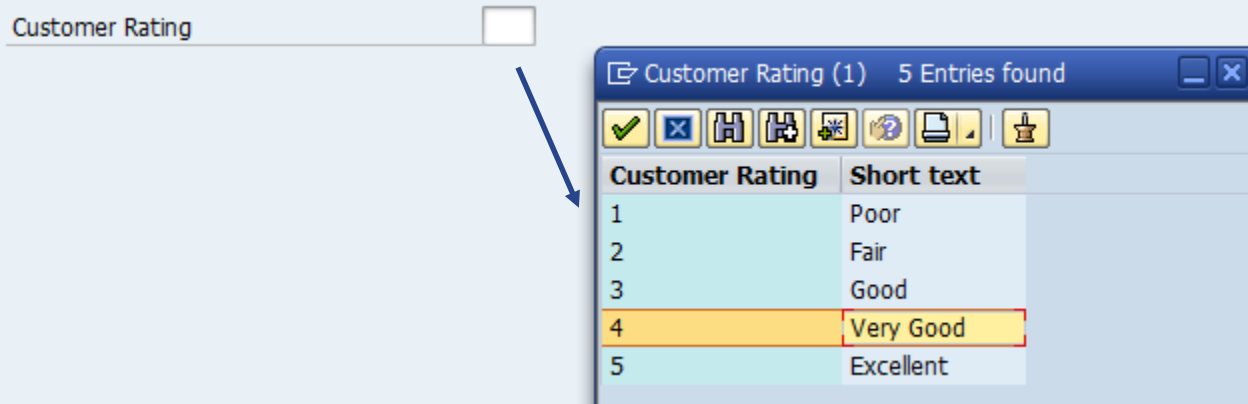


PARAMETERS rating TYPE i.

Doesn't protect  
from Direct  
Updates!

~~PARAMETERS rating TYPE i.~~

PARAMETERS rating TYPE zcrating.



~~PARAMETERS rating TYPE i.~~

PARAMETERS rating TYPE zcrating.

Next

**Development Workflow:  
Domain**



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# Domain

## Development Workflow: Domain

---

**Order**

**Order Item**

**Customer**

**Book**

**Publisher**

**Author**

**Address**

**Street**

**City**

**State**

**Country**

# List of Potential Domains

ZSTATUS	ZDATE	ZPRICE	ZEMAIL	ZQUANTITY	ZTITLE	ZPHONE	ZURL
CHAR 1	DATS	DEC 15+2	CHAR 50	DEC 5+0	CHAR 100	CHAR 30	CHAR 50



# List of Potential Domains

<b>ZSTATUS</b> CHAR 1	<b>ZDATE</b> DATS	<b>ZPRICE</b> DEC 15+2	<b>ZEMAIL</b> CHAR 50	<b>ZQUANTITY</b> DEC 5+0	<b>ZTITLE</b> CHAR 100	<b>ZPHONE</b> CHAR 30	<b>ZURL</b> CHAR 50
<b>ZTEXT</b> CHAR 30	<b>ZLTEXT</b> CHAR 80	<b>ZORDERID</b> CHAR 10	<b>ZBOOKID</b> CHAR 10	<b>ZCUSTOMERID</b> CHAR 10	<b>ZAUTHORID</b> CHAR 4	<b>ZPUBLISHERID</b> CHAR 4	<b>ZZIPCODE</b> CHAR 6
<b>ZSTATEID</b> CHAR 4	<b>ZCOUNTRYID</b> CHAR 4	<b>ZADDRESSID</b> CHAR 10	<b>ZSTREETID</b> CHAR 10	<b>ZCITYID</b> CHAR 4			

# Development Workflow

ZOSTATUS
CHAR 1
ZDATE
DATS
ZPRICE
DEC 15+2
ZEMAIL
CHAR 50



# Development Workflow

ZSTATUS
CHAR 1
ZDATE
DATS
ZPRICE
DEC 15+2
ZEMAIL
CHAR 50



ZQUANTITY	ZTITLE	ZURL	ZPHONE	ZZIPCODE
DEC 5+0	CHAR 100	CHAR 50	CHAR 30	CHAR 6
ZTEXT	ZLTEXT	ZSTREETID	ZCITYID	ZSTATEID
CHAR 30	CHAR 80	CHAR 10	CHAR 4	CHAR 4
ZCOUNTRYID	ZADDRESSID	ZORDERID	ZBOOKID	ZAUTHORID
CHAR 4	CHAR 10	CHAR 10	CHAR 10	CHAR 4
ZPUBLISHERID	ZCUSTOMERID			
CHAR 4	CHAR 10			

# Development Workflow

ZSTATUS
CHAR 1
ZDATE
DATS
ZPRICE
DEC 15+2
ZEMAIL
CHAR 50



ZQUANTITY	ZTITLE	ZURL	ZPHONE	ZZIPCODE
DEC 5+0	CHAR 100	CHAR 50	CHAR 30	CHAR 6
ZTEXT	ZLTEXT	Next Demo: Creating Domain		
CHAR 30	CHAR 80			
ZCOUNTRYID	ZADDRESSID	ZORDERID	ZBOOKID	ZAUTHORID
CHAR 4	CHAR 10	CHAR 10		CHAR 4
ZPUBLISHERID	ZCUSTOMERID			
CHAR 4	CHAR 10			



# Group Exercises

# Group Exercises



Attendee

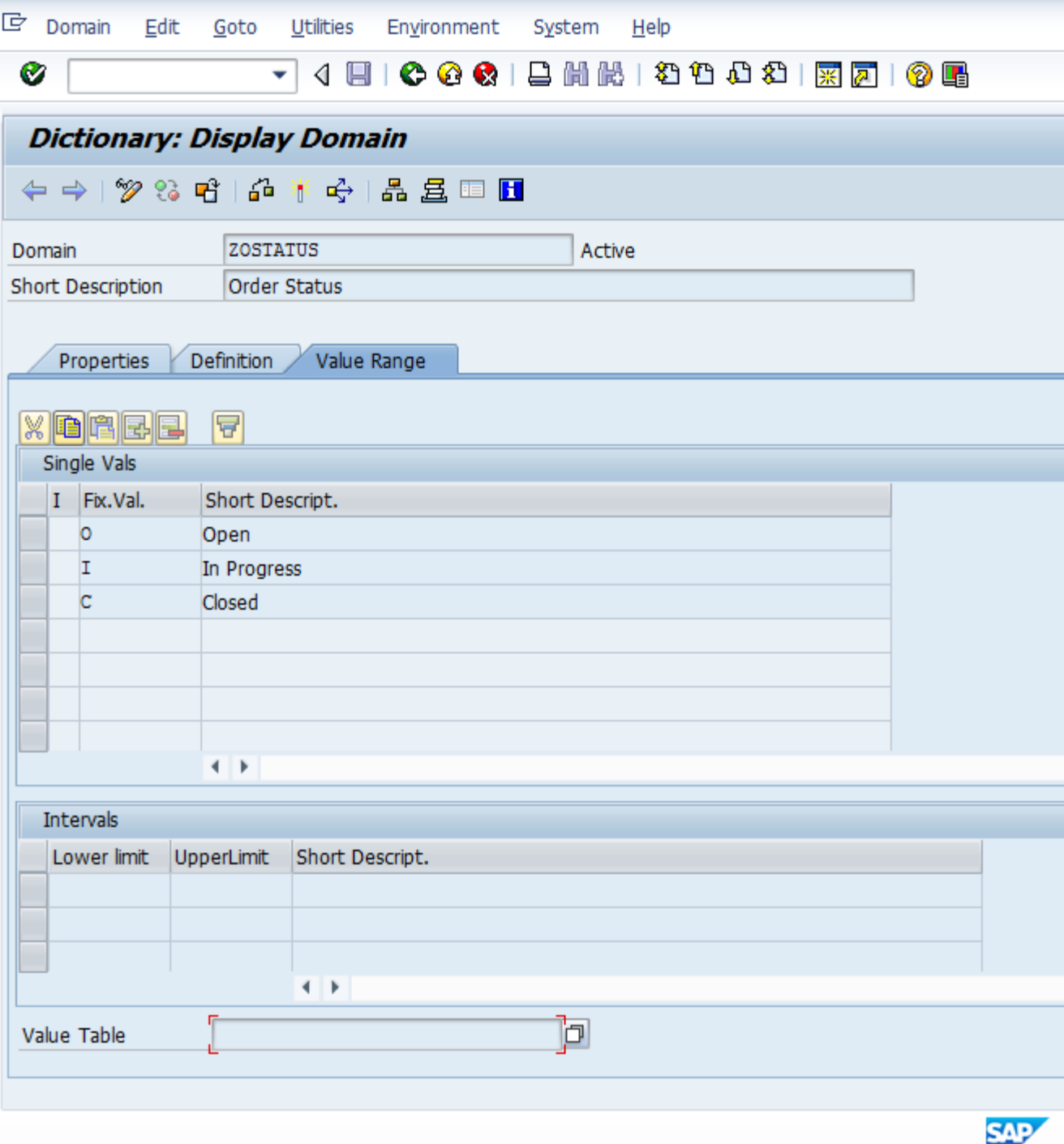
# Group Exercises



Attendee



Instructor



# ZOSTATUS

## Order Status

Data Type	CHAR
No. Characters	1
Decimal Places	N/A
Output Length	1
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	Open   In Progress   Closed



# ZDATE

## Date

Data Type	DATS
No. Characters	8
Decimal Places	N/A
Output Length	10
Conversion Routine	—
Sign	N/A
Lower Case	N/A
Value Range	N/A



**Dictionary: Display Domain**

Domain: ZEMAIL Active

Short Description: Email Address

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Properties Definition Value Range

Format	
Data Type	CHAR Character String
No. Characters	50
Decimal Places	0

Output Characteristics	
Output Length	50
Convers. Routine	
<input type="checkbox"/> Sign	
<input checked="" type="checkbox"/> Lower Case	

# ZEMAIL

# Email Address

Data Type	CHAR
No. Characters	50
Decimal Places	N/A
<hr/>	
Output Length	50
Conversion Routine	–
Sign	N/A
Lower Case	X
<hr/>	
Value Range	–

# Individual Exercises

# Individual Exercises



# ZQUANTITY

Quantity

Data Type	DEC
No. Characters	5
Decimal Places	0
Output Length	6
Conversion Routine	–
Sign	–
Lower Case	N/A
Value Range	–

# ZTITLE

Title

Data Type	CHAR
No. Characters	100
Decimal Places	N/A
Output Length	100
Conversion Routine	–
Sign	N/A
Lower Case	X
Value Range	–

# ZPHONE

Phone Number

Data Type	CHAR
No. Characters	30
Decimal Places	N/A
Output Length	30
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZURL

URL

Data Type	CHAR
No. Characters	50
Decimal Places	N/A
Output Length	50
Conversion Routine	–
Sign	N/A
Lower Case	X
Value Range	–

# ZTEXT

Short Text

Data Type	CHAR
No. Characters	30
Decimal Places	N/A
Output Length	30
Conversion Routine	–
Sign	N/A
Lower Case	X
Value Range	–

# ZLTEXT

Long Text

Data Type	CHAR
No. Characters	80
Decimal Places	N/A
Output Length	80
Conversion Routine	–
Sign	N/A
Lower Case	X
Value Range	–

# ZORDERID

Order ID

Data Type	CHAR
No. Characters	10
Decimal Places	N/A
Output Length	10
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZBOOKID

Book ID

Data Type	CHAR
No. Characters	10
Decimal Places	N/A
Output Length	10
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZCUSTOMERID

Customer ID

Data Type	CHAR
No. Characters	10
Decimal Places	N/A
Output Length	10
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–



# ZAUTHORID

Author ID

Data Type	CHAR
No. Characters	4
Decimal Places	N/A
Output Length	4
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZPUBLISHERID

Publisher ID

Data Type	CHAR
No. Characters	4
Decimal Places	N/A
Output Length	4
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZZIPCODE

ZIP Code

Data Type	CHAR
No. Characters	6
Decimal Places	N/A
Output Length	6
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZSTATEID

State ID

Data Type	CHAR
No. Characters	4
Decimal Places	N/A
Output Length	4
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZCOUNTRYID

Country ID

Data Type	CHAR
No. Characters	4
Decimal Places	N/A
Output Length	4
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZADDRESSID

Address ID

Data Type	CHAR
No. Characters	10
Decimal Places	N/A
Output Length	10
Conversion Routine	–
Sign	N/A
Lower Case	–
Value Range	–

# ZSTREETID

Street ID

Data Type	CHAR
No. Characters	10
Decimal Places	N/A
<hr/>	
Output Length	10
Conversion Routine	–
Sign	N/A
Lower Case	–
<hr/>	
Value Range	–

# ZCITYID

City ID

Data Type	CHAR
No. Characters	4
Decimal Places	N/A
<hr/>	
Output Length	4
Conversion Routine	–
Sign	N/A
Lower Case	–
<hr/>	
Value Range	–

Fields

Structure

Author ID	Work Email	Website
ZAUTHORID	ZWORKEMAIL	ZWEBSITE

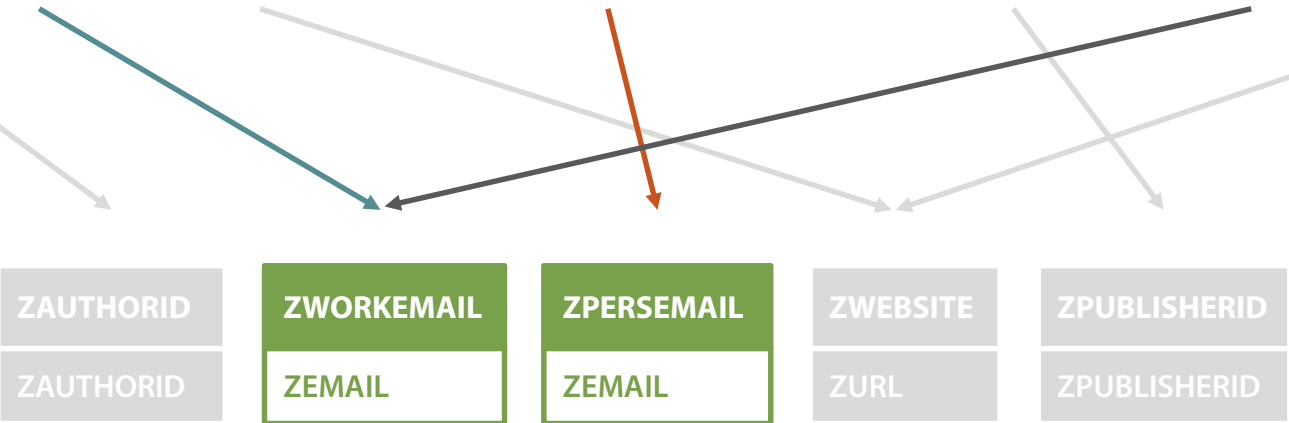
Table Type

Personal Email
ZPERSEMAIL

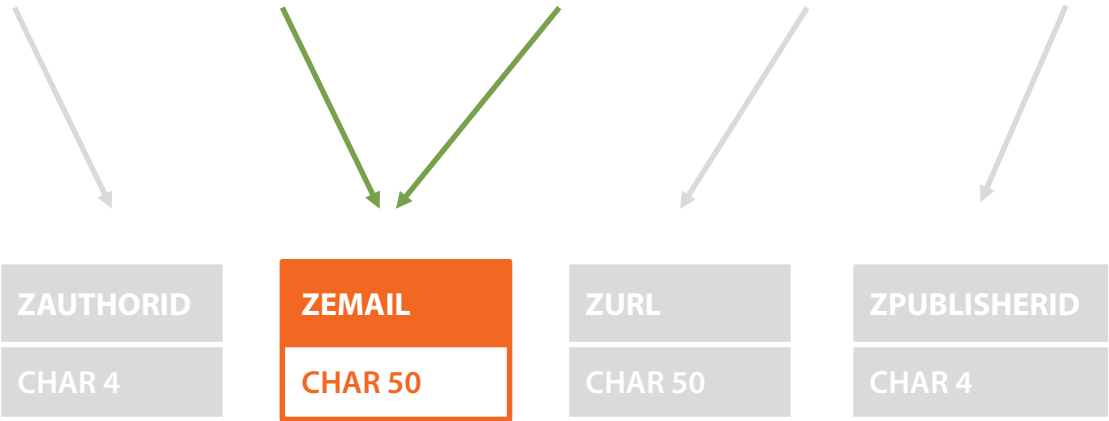
Database Table

Publisher ID	Work Email	Website
ZPUBLISHERID	ZWORKEMAIL	ZWEBSITE

Data Elements



Domains



## Structure

...	Work Email	...
...	CHAR 60	...

## Database Table

...	Personal Email	Work Email
...	CHAR 60	CHAR 60



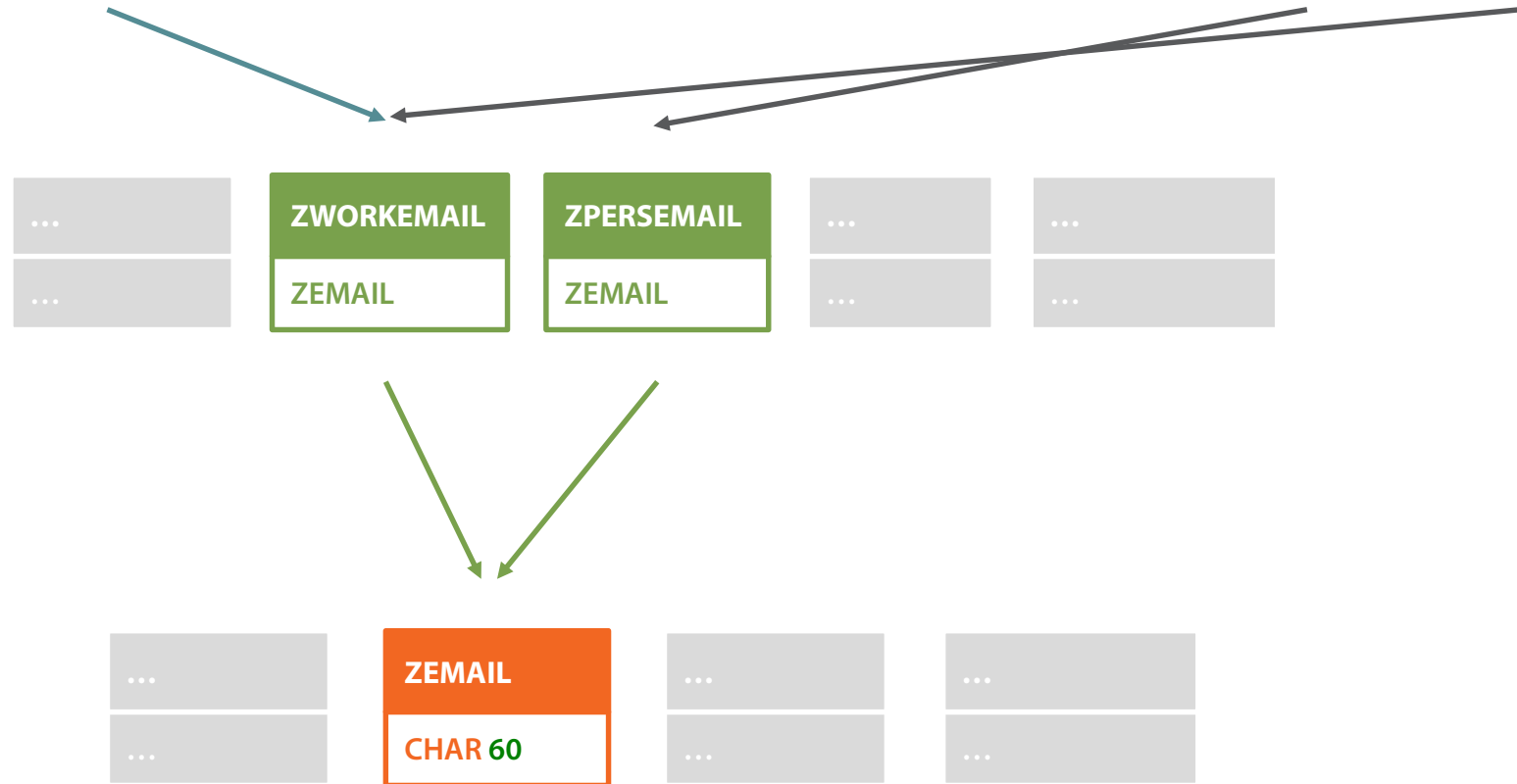
## Structure

...	Work Email	...
...	ZWORKEMAIL	...

## Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL

1x



15x

## Structure

...	Work Email	...
...	CHAR 60	...

Correct

## Database Table

...	Personal Email	Work Email
...	CHAR 40	CHAR 50

Typo

Missed

No



## Structure

...	Work Email	...
...	ZWORKEMAIL	...

## Database Table

...	Personal Email	Work Email
...	ZPERSEMAIL	ZWORKEMAIL

Yes



...	ZWORKEMAIL	ZPERSEMAIL	...	...
...	ZEMAIL	ZEMAIL	...	...

1x

...	ZEMAIL	...	...
...	CHAR 60	...	...



## Customer

...	Customer Rating	...
...	INT	...

## Vendor

...	...	Vendor Rating
...	...	INT

## Employee

...	Employee Rating	...
...	INT	...

No

ABAP Program #1

IF RATING BETWEEN 1 AND 5

ABAP Program #3

IF RATING BETWEEN 1 AND 5

ABAP Program #5

IF RATING BETWEEN 1 AND 5

ABAP Program #7

IF RATING BETWEEN 1 AND 5

ABAP Program #2

IF RATING BETWEEN 1 AND 5

ABAP Program #4

IF RATING BETWEEN 1 AND 5

ABAP Program #6

IF RATING BETWEEN 1 AND 5

## Customer

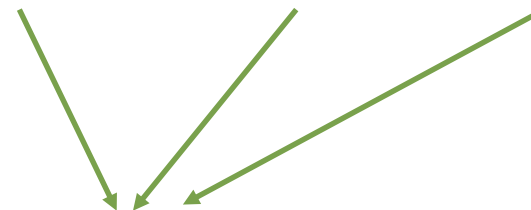
...	Customer Rating	...
...	ZCRATING	...

## Vendor

...	...	Vendor Rating
...	...	ZVRATING

## Employee

...	Employee Rating	...
...	ZERATING	...




# Implemented Domains

<b>ZSTATUS</b> CHAR 1	<b>ZDATE</b> DATS	<b>ZPRICE</b> DEC 15+2	<b>ZEMAIL</b> CHAR 50	<b>ZQUANTITY</b> DEC 5+0	<b>ZTITLE</b> CHAR 100	<b>ZPHONE</b> CHAR 30	<b>ZURL</b> CHAR 50
<b>ZTEXT</b> CHAR 30	<b>ZLTEXT</b> CHAR 80	<b>ZORDERID</b> CHAR 10	<b>ZBOOKID</b> CHAR 10	<b>ZCUSTOMERID</b> CHAR 10	<b>ZAUTHORID</b> CHAR 4	<b>ZPUBLISHERID</b> CHAR 4	<b>ZZIPCODE</b> CHAR 6
<b>ZSTATEID</b> CHAR 4	<b>ZCOUNTRYID</b> CHAR 4	<b>ZADDRESSID</b> CHAR 10	<b>ZSTREETID</b> CHAR 10	<b>ZCITYID</b> CHAR 4			

# Next Module

# Data Elements



ZOST	ZDATE	Z	ZEMAIL	ZQUANTITY	ZTITLE	ZPHONE	ZURL
CHAR 1	DATS	D 5+2	CHAR 50	DEC 5+0	CHAR 100	CHAR 30	CHAR 50
ZTEXT		ORDERID	ZBOOKID	ZCUSTOMERID	ZAUTHORID	ZPUBLISHERID	ZZIPCODE
CHAR 30		CHAR 10	CHAR 10	CHAR 10	CHAR 4	CHAR 4	CHAR 6
ZSTATEID	ZC	ZADDRESSID	ZSTREETID	ZCITYID			
CHAR 4	CH	CHAR 10	CHAR 10	CHAR 4			