View



Alex Gönczy
@abapmentor|abapmentor.expertise-team.com

Orders by Customers

Order ID	Book ID	Quantity	Unit Price	Customer ID	Order Date	Order Status	Total Price	First Name	Last Name	Personal Email	•••
O00000001	B000000021	2	39,97	C000000020	20130828	0	285,05	Jessamine	Chambers	Cum@inconsequat.org	•••
						•••	•••				•••

Order

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
•••	•••	• • •	• • •	• • •

Customer

Customer ID	First Name	Last Name	Personal Email	•••
C000000020	Jessamine	Chambers	Cum@inconsequat.org	•••
		•••		

Order Item

Order ID	Book ID	Quantity	Unit Price
O00000001	B000000021	2	39,97
		•••	

Join Projection Selection Maintenance Status

Database View

Projection View

Help View

Maintenance View

Replicated into the **Physical Database** as well

Implements Inner Join

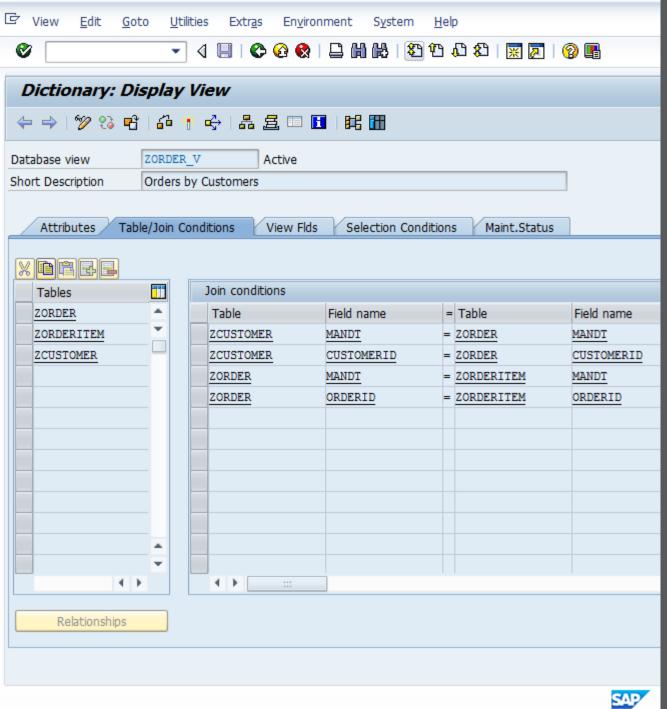
Minimizes Database Accesses

Consists of **One or More** Table(s)

Only Read-Access is possible

Development Workflow





ZORDER_VOrders by Customers

Database View

Table	Field
ZORDERITEM	MANDT
ZORDERITEM	ORDERID
ZORDERITEM	BOOKID
ZORDERITEM	QUANTITY
ZORDERITEM	UNITPRICE
ZORDER	CUSTOMERID
ZORDER	ORDDATE
ZORDER	OSTATUS
ZORDER	TOTALPRICE
ZCUSTOMER	FIRSTNAME
ZCUSTOMER	LASTNAME
ZCUSTOMER	PERSEMAIL
ZCUSTOMER	MOBPHONE
ZCUSTOMER	SADDRID
ZCUSTOMER	BADDRID



ZADDRESS_V

Full Address

Table	Field
ZADDRESS	MANDT
ZADDRESS	ADDRESSID
ZSTREET	STREETID
ZCITY	CITYID
ZCOUNTRY	COUNTRYID
ZSTREET	ZIPCODE
ZADDRESS	HOUSENUM
ZSTREET	STREETNAM
ZCITY	CITYNAME
ZCOUNTRY	COUNTRYNAM

ZADDRESS_V

Full Address

Table Fiel

Zaddress mand⁻

ZADDRESS ADDRESSII

ZSTREET STREETIC

ZCITY CITYII

ZCOUNTRY COUNTRYIE

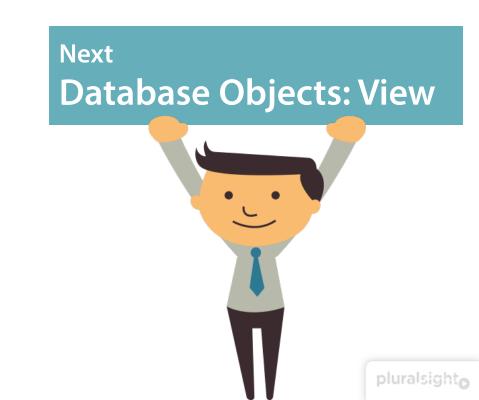
ZSTREET ZIPCOD

ZADDRESS HOUSENUM

ZSTREET STREETNA*N*

CITY CITYNAM

ZCOUNTRY COUNTRYNAM



View

Database Objects: View

Orders by Customers

Order ID	Book ID	Quantity	Unit Price	Customer ID	Order Date	Order Status	Total Price	First Name	Last Name	Personal Email	•••
O00000001	B000000021	2	39,97	C000000020	20130828	0	285,05	Jessamine	Chambers	Cum@inconsequat.org	•••
						•••	•••				•••

Order

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
•••	•••	• • •	• • •	• • •

Customer

Customer ID	First Name	Last Name	Personal Email	•••
C000000020	Jessamine	Chambers	Cum@inconsequat.org	•••
		•••		

Order Item

Order ID	Book ID	Quantity	Unit Price
O00000001	B000000021	2	39,97
		•••	

Join Projection Selection Maintenance Status

Join

Projection

Selection

Maintenance Status

Join

Projection

Selection

Maintenanc∈ Status

Inner Join

Outer Join

Customer

Customer ID	First Name	Last Name	Personal Email	•••
C000000014	Quintessa	Ramirez	bibendum@cursus.com	• • •
C000000020	Jessamine	Chambers	Cum@inconsequat.org	•••
C000000023	Stella	Norton	nonummy@lorem.ca	• • •
C000000037	Tate	Emerson	vitae.Vivamus@amet.net	•••

Order

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
0000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Orders of Customers

Inner Join

Customer ID	First Name	Last Name	Personal Email	Order ID	Order Date	Order Status	Total Price
C00000014	Quintessa	Ramirez	bibendum@cursus.com	O000000003	20131204	С	49,95
C000000020	Jessamine	Chambers	Cum@inconsequat.org	O00000001	20130828	0	285,05
C000000037	Tate	Emerson	vitae.Vivamus@amet.net	O000000002	20140430	С	46,18

Customer

Customer ID	First Name	Last Name	Personal Email	•••
C000000014	Quintessa	Ramirez	bibendum@cursus.com	• • •
C000000020	Jessamine	Chambers	Cum@inconsequat.org	• • •
C000000023	Stella	Norton	nonummy@lorem.ca	• • •
C000000037	Tate	Emerson	vitae.Vivamus@amet.net	• • •

Order

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Orders of Customers

Outer Join

Customer ID	First Name	Last Name	Personal Email	Order ID	Order Date	Order Status	Total Price
C00000014	Quintessa	Ramirez	bibendum@cursus.com	O00000003	20131204	С	49,95
C000000020	Jessamine	Chambers	Cum@inconsequat.org	O00000001	20130828	0	285,05
C000000023	Stella	Norton	nonummy@lorem.ca				
C00000037	Tate	Emerson	vitae.Vivamus@amet.net	O00000002	20140430	С	46,18

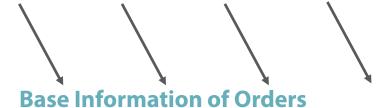
Join Projection Selection Maintenance Status

Order

Join

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Maintenance Status



Order ID	Customer ID	Order Date	Order Status
O00000001	C000000020	20130828	0
O000000002	C00000037	20140430	С
O000000003	C00000014	20131204	С

Join Projection Selection Maintenance Status

Order

Join

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Maintenance Status

Open Orders

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Order

Join

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C00000037	20140430	С	46,18
O00000003	C00000014	20131204	С	49,95

Maintenance Status

WHERE **Order Status** = **"O"**.

Open Orders

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
O000000002	C000000037	20140430	С	46,18
O000000003	C00000014	20131204	С	49,95

Join

Projection

Selection

Maintenance Status

Join

Projection

Selection

Maintenanc∈ Status

Read only

Read, Change, Delete, Insert

Join

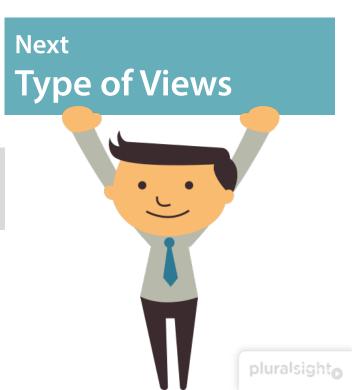
Projection

Selection

Maintenance Status

Read only

Read, Change, Delete, Insert



View

Type of Views

Database View

Projection View

Help View

Maintenance View

Database View

Projection View

Help View

Maintenance View

Replicated into the **Physical Database** as well

Implements Inner Join

Minimizes Database Accesses

Consists of **One or More** Table(s)

Only Read-Access is possible

Database View

Projection View

Help View

Maintenance View

Hides Unnecessary Fields

Minimizes the Interface

Consists of **Only One** Table

Database View

Projection View

Help View

Maintenance View

Selection Method for Search Helps

Implements Outer Join

Database View

Projection View

Help View

Maintenance View

Simplifies the Maintenance of Complex Application Objects

Implements Outer Join

Simplifies the Mainter

Next **Development Workflow: View**



View

Development Workflow: View

List of Potential Views

ZORDER_V

Orders by Customers

ZADDRESS_V

Full Address

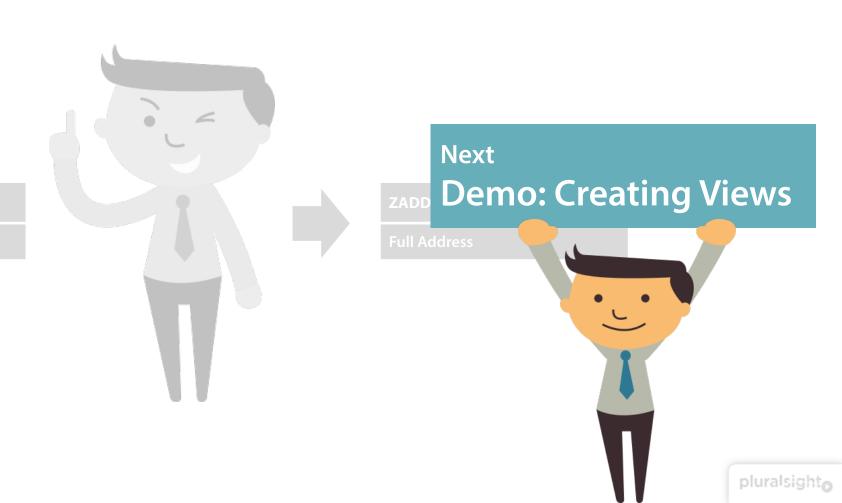
Development Workflow



Development Workflow



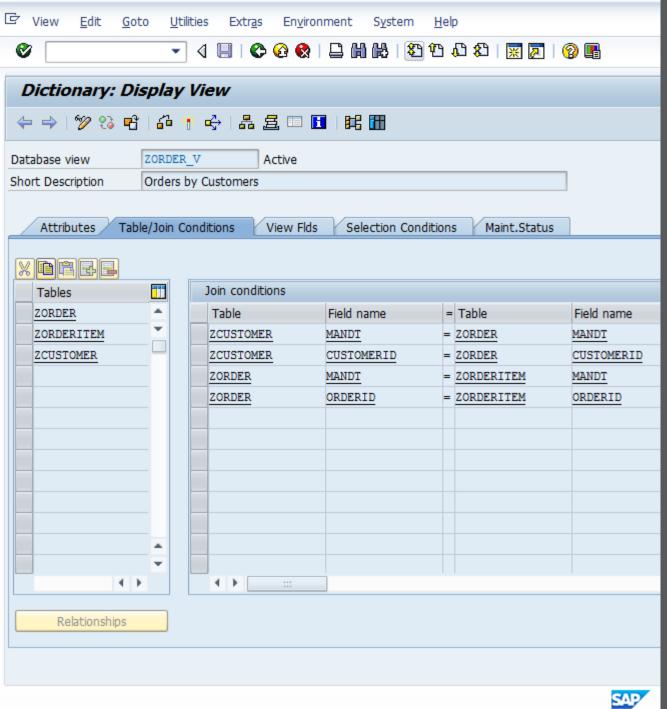
Orders by Customers



Group Exercises







ZORDER_VOrders by Customers

Database View

Table	Field
ZORDERITEM	MANDT
ZORDERITEM	ORDERID
ZORDERITEM	BOOKID
ZORDERITEM	QUANTITY
ZORDERITEM	UNITPRICE
ZORDER	CUSTOMERID
ZORDER	ORDDATE
ZORDER	OSTATUS
ZORDER	TOTALPRICE
ZCUSTOMER	FIRSTNAME
ZCUSTOMER	LASTNAME
ZCUSTOMER	PERSEMAIL
ZCUSTOMER	MOBPHONE
ZCUSTOMER	SADDRID
ZCUSTOMER	BADDRID



Individual Exercises



ZADDRESS_V

Full Address

Table	Field
ZADDRESS	MANDT
ZADDRESS	ADDRESSID
ZSTREET	STREETID
ZCITY	CITYID
ZCOUNTRY	COUNTRYID
ZSTREET	ZIPCODE
ZADDRESS	HOUSENUM
ZSTREET	STREETNAM
ZCITY	CITYNAME
ZCOUNTRY	COUNTRYNAM

Orders by Customers

Order ID	Book ID	Quantity	Unit Price	Customer ID	Order Date	Order Status	Total Price	First Name	Last Name	Personal Email	•••
O00000001	B000000021	2	39,97	C000000020	20130828	0	285,05	Jessamine	Chambers	Cum@inconsequat.org	•••
	•••	•••	•••			•••	•••	•••			• • •

Order

Order ID	Customer ID	Order Date	Order Status	Total Price
O00000001	C000000020	20130828	0	285,05
•••		•••	•••	•••

Customer

Customer ID	First Name	Last Name	Personal Email	•••
C000000020	Jessamine	Chambers	Cum@inconsequat.org	•••

Order Item

Order ID	Book ID	Quantity	Unit Price
O00000001	B000000021	2	39,97
		•••	•••

Join Projection Selection Maintenance Status

Database View

Projection View

Help View

Maintenance View

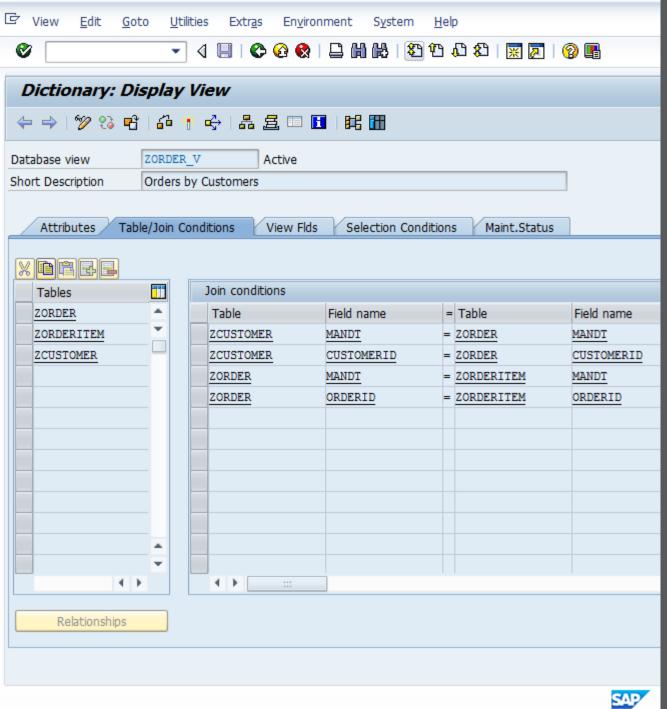
Replicated into the **Physical Database** as well

Implements Inner Join

Minimizes Database Accesses

Consists of **One or More** Table(s)

Only Read-Access is possible



ZORDER_VOrders by Customers

Database View

Table	Field
ZORDERITEM	MANDT
ZORDERITEM	ORDERID
ZORDERITEM	BOOKID
ZORDERITEM	QUANTITY
ZORDERITEM	UNITPRICE
ZORDER	CUSTOMERID
ZORDER	ORDDATE
ZORDER	OSTATUS
ZORDER	TOTALPRICE
ZCUSTOMER	FIRSTNAME
ZCUSTOMER	LASTNAME
ZCUSTOMER	PERSEMAIL
ZCUSTOMER	MOBPHONE
ZCUSTOMER	SADDRID
ZCUSTOMER	BADDRID



ZADDRESS_V

Full Address

Table	Field
ZADDRESS	MANDT
ZADDRESS	ADDRESSID
ZSTREET	STREETID
ZCITY	CITYID
ZCOUNTRY	COUNTRYID
ZSTREET	ZIPCODE
ZADDRESS	HOUSENUM
ZSTREET	STREETNAM
ZCITY	CITYNAME
ZCOUNTRY	COUNTRYNAM

ZADDRESS_V

Full Address

Table Field

ZADDRESS MAND

ZADDRESS ADDRESSIE

ZSTREET STREETID

ZCITY CITYII

ZCOUNTRY COUNTRYIE

ZSTREET ZIPCODE

ZADDRESS HOUSENUM

ZSTREET STREETNA*N*

ZCITY CITYNAM

ZCOUNTRY COUNTRYNAM



