Database Modeling

Relationships

One - Many

CustomerID	FirstName	LastName	Email	Address			
367	Michelle	Blackwell	mblackwell@	22 Acacia			
368	Lynn	Allen	la1942@	1016B 1st			
369	Lee	Stout	lee@	47 Main St			

Primary Key (PK)

Order

17			
OrderID	Date	Quantity	TotalDue
101	3/1/2011	17	\$340.00
102	3/2/2011	47	\$902.00
103	3/2/2011	104	\$1500.00

Primary Key (PK)

CustomerID	FirstName	LastName	Email	Address	
367	Michelle	Blackwell	mblackwell@	22 Acacia	
368	Lynn	Allen	la1942@	1016B 1st	
369	Lee	Stout	lee@	47 Main St	

Order

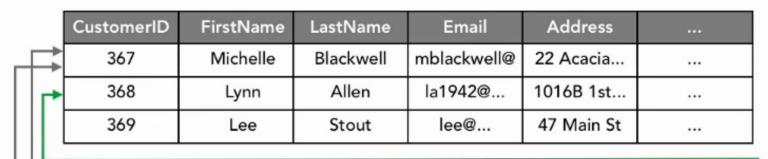
OrderID	Date	Quantity	TotalDue	CustomerID
101	3/1/2011	17	\$340.00	367
102	3/2/2011	47	\$902.00	367
103	3/2/2011	104	\$1500.00	368

CustomerID	FirstName	LastName	Email	Address	
367	Michelle	Blackwell	mblackwell@	22 Acacia	
368	Lynn	Allen	la1942@	1016B 1st	
369	Lee	Stout	lee@	47 Main St	

Order

OrderID	Date	Quantity	TotalDue	CustomerID
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103	3/2/2011	104	\$1500.00	368

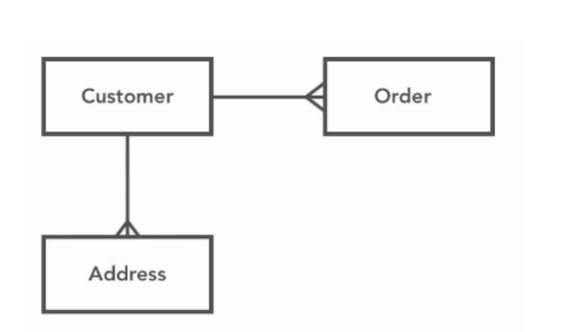
Foreign Key (FK)

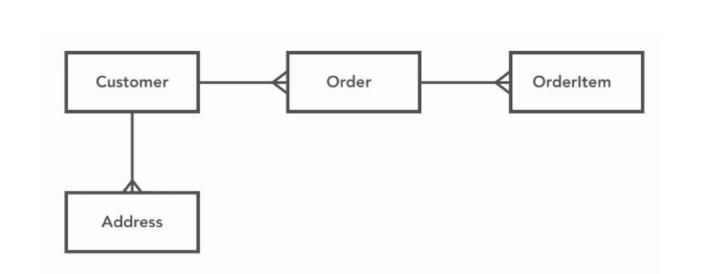


Order

Date	Quantity	TotalDue	CustomerID	
3/1/2011	17	\$340.00	367	<u> </u>
3/2/2011	47	\$902.00	367	
3/2/2011	104	\$1500.00	368	
	3/1/2011 3/2/2011	3/1/2011 17 3/2/2011 47	3/1/2011 17 \$340.00 3/2/2011 47 \$902.00	3/1/2011 17 \$340.00 367 3/2/2011 47 \$902.00 367

Foreign Key (FK)





One - One

Employee	

e DriversLicense

102

103

Ō	FirstName	LastName	
101	Jim	McDonald	
102	Marion	Robinson	
103	Angela	Gonzalez	

ID	License Number	State	Expires
101	1243235	Δ7	11/2033

CA

CA

11/2014

5/2013

5434234

34234521

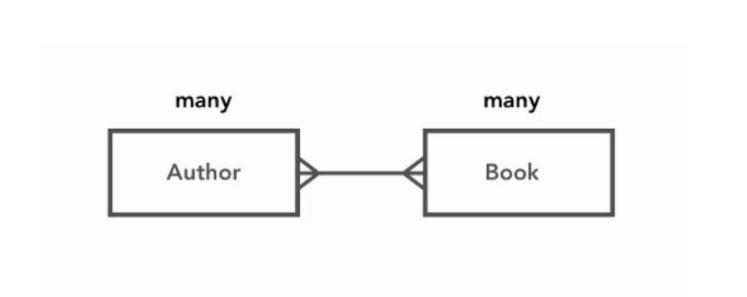
Employee	DriversLicense
Zinpioyee	Dilversaleense

ID	FirstName	LastName		≙	LicenseNumber	State	Expires
101	Jim	McDonald		101	1243235	AZ	11/2033
102	Marion	Robinson		102	5434234	CA	11/2014
103	Angela	Gonzalez		103	34234521	CA	5/2013

Employee

ID	FirstName	LastName	 LicenseNumber	State	Expires
101	Jim	McDonald	1243235	AZ	11/2033
102	Marion	Robinson	5434234	CA	11/2014
103	Angela	Gonzalez	34234521	CA	5/2013

Many - Many



•					
ClassID	Title	Date	Classroom	Capacity	
441	Database Design	3/1/2013	8	12	
442	SQL for Beginners	3/1/2013	6	24	
443	Advanced Normalization	4/12/2013	2	18	

Student

udentID	FirstName	LastName	Email	
101	David	Denton	dd@acme	
102	Viola	Couch	vc1968@	
103	Arthur	Price	arthur@me	

ClassID	Title	Date	Classroom	Capacity	 StudentID
441	Database Design	3/1/2013	8	12	 101
442	SQL for Beginners	3/1/2013	6	24	 103
443	Advanced Normalization	4/12/2013	2	18	 101

Student

StudentID	FirstName	LastName	Email	
101	David	Denton	dd@acme	
102	Viola	Couch	vc1968@	
103	Arthur	Price	arthur@me	

ClassID	Title	Date	Classroom	Capacity	 StudentID
441	Database Design	3/1/2013	8	12	 101
442	SQL for Beginners	3/1/2013	6	24	 103
443	Advanced Normalization	4/12/2013	2	18	 101

Student

StudentID	FirstName	LastName	Email	
101	David	Denton	dd@acme	
102	Viola	Couch	vc1968@	
103	Arthur	Price	arthur@me	

103

Arthur

0.0.00					
ClassID	Title	Date	Classroom	Capacity	
441	Database Design	3/1/2013	8	12	
442	SQL for Beginners	3/1/2013	6	24	
443	Advanced Normalization	4/12/2013	2	18	

StudentID

101

ClassStudent

arthur@me...

		441	102		
	[441	103		
	[442	102		
Studen	t		Y		
StudentID	FirstNam	ie Las	tName	Email	
101	David	D	enton	dd@acme	
102	Viola		Couch	vc1968@	

Price

ClassID

441

