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

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

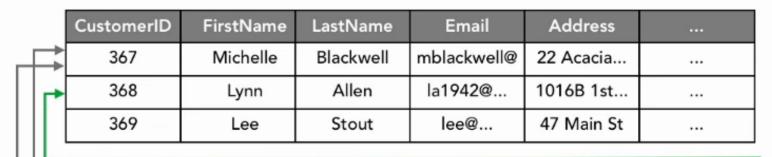
OrderID	Date	Quantity	TotalDue	CustomerID
101	3/1/2011	17	\$340.00	367
102	3/2/2011	47	\$902.00	367
103	3/2/2011	104	\$1500.00	368

CustomerID	FirstName	LastName	Email	Address	
367	Michelle	Blackwell	mblackwell@	22 Acacia	
368	Lynn	Allen	la1942@	1016B 1st	
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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

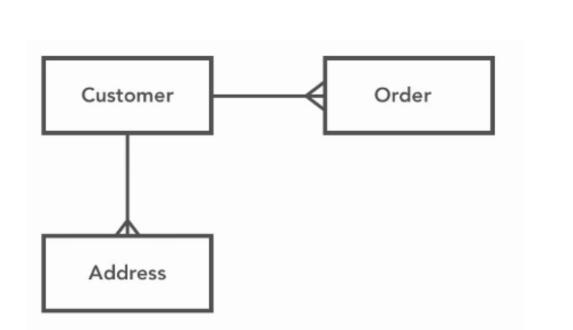
Foreign Key (FK)

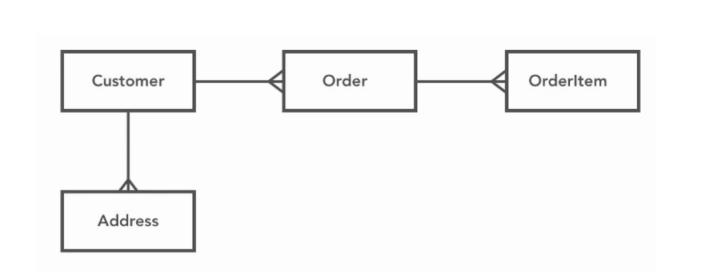


Order

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

Foreign Key (FK)





One - One

Employee

DriversLicense

102

103

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

ID	LicenseNumber	State	Expires
101	1243235	AZ	11/2033

CA

CA

5434234

34234521

11/2014

5/2013

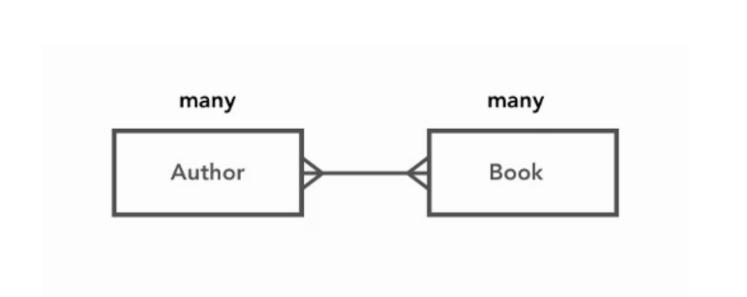
Employee DriversLicense

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

0.000					
ClassID	Title	Date	Classroom	Capacity	
441	Database Design	3/1/2013	8	12	
442	SQL for Beginners	3/1/2013	6	24	
443	443 Advanced Normalization		2	18	

ClassID

			441	101			
			441	102			
			441	103			
			442	102			
Studen	t			Y			
StudentID	FirstNam	ne	Last	tName		Email	
101	David		Denton			dd@acme	
102	Viola	Viola		Couch		vc1968@	Τ

Price

StudentID

ClassStudent

arthur@me...

