

# Relational Model using the textbook notations

# of Relations: 8

Table of Relations: Relation 1 Relation Customers

Relation 2
Relation Orders
Relation 3
Relation Books
Relation 4
Relation Publisher
Relation 5
Relation Author
Relation 6
Relation Employee
Relation 7
Relation Testimonial
Relation 8
Relation OrderItems

Version 2.0

# **Approvals Signature Block**

COSC 4351	Name	Signature	Date
SE Team Leader			
SE SQA			
SE SQA			
SE DBA			
SE DBA			

# # of Es: 7

Table of Es: **E** Customers E 1

**E** 2 E Orders

**E** 3 E Books

E 4 E 5 E Publisher

E Author

**E** 6 E Employee

E 7 E Testimonial

# # of Attributes: 46

Table of Attributes: E Customers A1-Customer#

A2-LastName

A3-FirstName

A4-B&SAddress

A5-B&SCity

A6-B&SState A7-B&SZip

A8-Region

A9-Username

A10-Password

A11-Email

E Orders A1-Order#

A2-OrderDate

A3-ShipDate

A4-ShipStreet

A5-ShipCity

A6-ShipState

A7-ShipZip

E Books A1-ISBN

A2-Title

A3-PubDate

A4-Cost

A5-Retail

A6-Category

A7-QOH

E Publisher A1-PubID

A2-Name

A3-Contact

A4-Email

E Author	A1-AuthorID
	A2-LName
	A3-FName
E Employee	A1-Employee#
	A2-FName
	A3-LName
	A4-Username
	A5-Password
	A6-Role
	A7-StartDate
	A8-EndDate
	A9-Commission
	A10-Region
	A11-Email
E Testimonial	A1-TestimonialID
	A2-Content
	A3-TDate
E Testimonial	A2-Content

# of Rs : <u>5</u>

Table of Rs: R 1 R Place

R 2 R Fill R 3 R Has

R 4 R Provide R 5 R Maintains

# of Attributes: 2

Table of Descriptive Attributes: R Fill A1-ITEM#

A2-Quantity

# of Views : 5
Table of Vs:

V 1 V Book V 2 V Order V 3 V Items

/ 3 V Items / 4 V Categories

5 V Profit

# of Triggers : 7
Table of Ts:

Table of Ts: T1 TReOrderItem

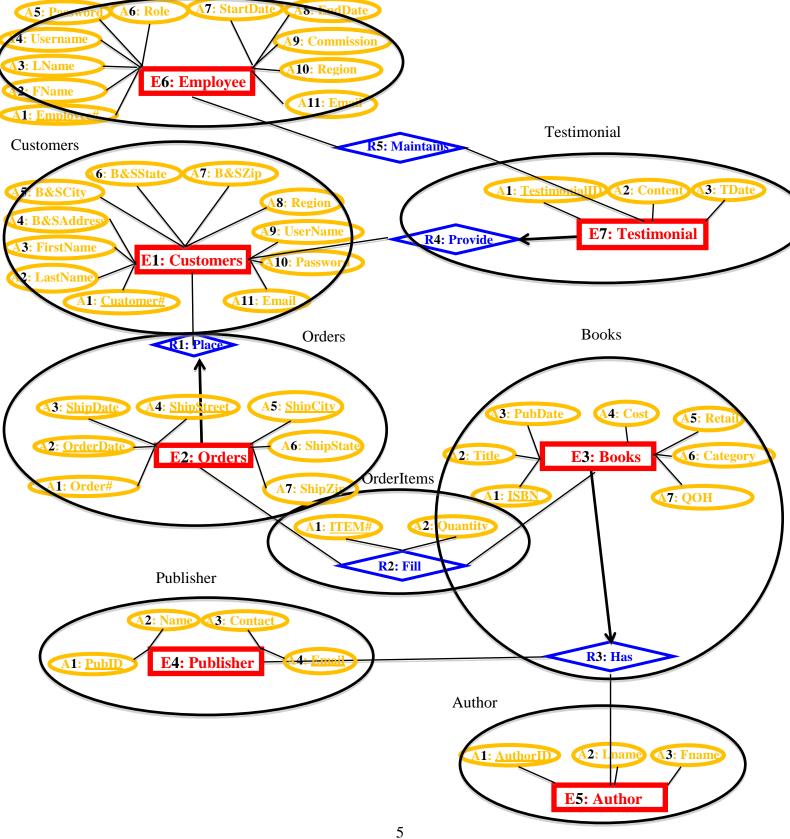
T 2 T ShipItem

T 3 T TransferOrder
T 4 T DistributeGift
T 5 T TrackCustomers

T 6 T DiscountItem

T 7 T DetermineProfitPercentage

### a. Using the ERD model created, create a list of each Relation (Table) **Employee**



# **List of Relational Tables from ERD:**

ITEM#

Order#

	Custome	ers									
Customer#	LastName	FirstName	B&SAddı	ress B&S	City	B&SState	B&SZip	Region	Username	Passwor	d Email
	Orders										
	Order#	Custome	r# OrderD	Date   Ship	Date	ShipStreet	ShipCit	y Ship	State   Sl	hipZip	
	Books										
	<u>ISBN</u>	Title	<u>AuthorID</u>	PubDate	<u>PubID</u>	Cost	Retail	Cate	gory QO	)H	
	Publishe	r						- ·			
	<u>PubID</u>		Name		Co	ontact		Email			
	Author										
	<u>AuthorID</u>			LName			FName				
	Employee										
<b>Employee</b>	# Fname	Lname	Username	Password	Role	StartDate	e EndD	ate Co	mmission	Region	Email
Testimonial											
	<b>Testimoni</b>	alID	Content		TI	Date		Custon	ner#		
			<u> </u>								
,	OrderIte	ems									

<u>ISBN</u>

Quantity

# b. Convert Relations to 1NF, 2NF, and 3NF.

Already in 3NF:

**UNCHANGED SAME AS b.** 

	<b>Custome</b>	rs										
Customer#	LastName	FirstNam	e B&SAd	dress B	&SCity	B&SState	B&SZip	Region	n Useri	name	Password	l Email
-	<b>Orders</b>		1				_			1		
	Order#	Custome	r# Order	Date Sh	ipDate	ShipStreet	ShipCi	ity   S	hipState	Sh	ipZip	
_	Books											
	<u>ISBN</u> Title <u>Aut</u>		<u>AuthorID</u>	uthorID PubDate Pub		Cost	Retail	C	ategory	QOI	H	
L	<u> </u>	<u> </u>		<u> </u>								
_	Publishe	r										
	<u>PubID</u>		Name		Co	ontact		Ema	il			
_												
	Author											
	AuthorID			LName			FName	е				
_												
	<b>Employe</b>	e										
Employee#	Fname	Lname	Username	Passwo	rd Role	StartDate	e EndI	Date	Commiss	sion	Region	Email
					l		L	ı		ı		
	<b>Testimor</b>	nial										
	Testimoni	alID	Conten	t	Tl	Date		Cust	omer#			
L												
	OrderIte	ems										
	Order#		ITEM#		IS	<u>BN</u>		Quai	ntity			
L												
	c Draw t	he revised	ERD mod	el that cor	rrespond	s to the 3N	E relation	ns for	h			
	C. Dian c.	110 10 11500	LICE IIIOG	or that con	тевропа		1 Tolution	101	<b>~•</b>			
	INCHA	NCED SA	ME AS a									
	UNCIIA	NOED SE	IVIL AD a	•								
	d Heina	the revised	d ERD mod	del create	din e e	eate a list	of each r	elation	(table)			
	u. Using	the revised		aci cicalci	4 111 <b>C.</b> , Cl	cate a nst	or cacil it	ciatioi	I (table)	•		

## **DOCUMENT CONTROL**

#### **CHANGE HISTORY**

#### TLs entries (assigned work and due dates ) before releasing to the team (all SQAs)

Revision	Name	Due Date	Description					
1.A	DBA	03/23/2014	Complete Relational Model					
1.B	DBA	03/23/2014	Complete Relational Model					
1.X	SQA	03/26/2014	Review Document					
1.Y	SQA	03/26/2014	Review Document					

### TMs entries when they completed their work

Revision	Name	<b>Completed Date</b>	Description
1.A	DBAs Name	XX/XX/XXXX	I completed XXX
1.B	DBAs Name	XX/XX/XXXX	I completed YYY
1.X	SQA Name	XX/XX/XXXX	I reviewed Document
1.Y	SQA Name	XX/XX/XXXX	I reviewed Document

## TLs entry before BLUE TEAMS DELIVERABLES

Revision	Name	Due Date	Description		
<mark>2</mark> .0	TL Name	XX/XX/XXXX	I changed Version to 2.0		

#### **DOCUMENT STORAGE**

This file is stored in SVN at https://svn.cs.uh.edu//svn/cosc4351/team 1/DB TEAM PROJECT DELIVERABLES/Relational Model using the textbook notations.doc.