





KROENKE and AUE	R - DATABASE CONCEPTS (4 rd Edition) © 2010 2008 Pearson Prentice Hall	NAC ONTRACTOR
44	Relation	c28JERO
	 A relation is a two-dimensional table that has characteristics The table dimensions, like a matrix, consist of rows and colu 	specific umns
	Course: DE4, Course Teacher: Dr. D. M. Akbar Hussain Department of Electronic Systems	2-4



KROENKE and AUER	R - DATABASE CONCEPTS (4 rd Edition) © 2010 200 A Sampl	8 Pearson Prentice Hall e Relation	SBJERG
	Att	ributes	
Entity	EmployeeNumber	FirstName	LastName
	100	Mary	Abernathy
	101	Jerry	Cadley
	104	Alex	Copley
	107	Megan	Jackson
	Course: DE4, Course T	eacher: Dr. D. M. Akbar Hussa	in 2-6

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	EmployeeNumber	LastName	Email	Department	DeptPhone
	100	Johnson	JJ@somewhere.com	Accounting	834-1100
	200	Abernathy	MA@somewhere.com	Finance	834-2100
	300	Smathers	LS@somewhere.com	Finance	834-2100
	400	Caruthers	TC@somewhere.com	Accounting	834-1100
	500	Jackson	TJ@somewhere.com	Production	834-4100
	600	Caldera	EC@somewhere.com	Legal	834-3100
	700	Bandalone	RB@somewhere.com	Legal	834-3100
	c	Is thi	s a Relation or	Not	

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	EmployeeNumber	Phone	LastName
	100	335-6421, 454-9744	Abernathy
	101	215-7789	Cadley
	104	610-9850	Copley
	107	299-9090	Jackson
	Why this is Course: DE4, Course T	s non-relation ?	ain 2-8

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	Why this is r	non-relation ?]
	EmployeeNumber	Phone	LastName
	100	335-6421	Abernathy
	101	215-7789	Cadley
	104	610-9850	Copley
	100	335-6421	Abernathy
	107	299-9090	Jackson
	Course: DE4, Course T	Feacher: Dr. D. M. Akbar Hussa	in 2-9

KROENKE and AUER - DATABASE CONCEPTS (4 ^{re} Edition) © 2010 2008 Pearson Prentice Hall Example							
EmployeeNi 100	umber FirstName Jerry	LastName Johnson	Department Accounting	Email Ju@somewhere.com	Phone 236-9987	Comment Joined the Accounting Department in March after completing his MBA at	
		8 h	-		111 0000	night. Will sit for CPA exam this fall.	
200	Mary	Abernatny	Finance	MA@somewhere.com	444-6858		
300	LIZ	Smathers	Finance	LS@somewhere.com	777-0098		
400	Tom	Caruthers	Accounting	Tugesomewhere.com	230-9957		
500	Tom	Jackson	Production	TJggsomewhere.com	444-9930		
700	Richard	Bandalone	Legal	RB@somewhere.com	767-0900	Is a full time consultant to legal on a retainer basis.	
	1	Is ti	his a Re	lation or N	lot	(retainer başıs,	
		Course: DE4, Dep	Course Teache partment of Ele	er: Dr. D. M. Akbar H ectronic Systems	ussain	2-11	

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	Synonyms.	••	
;	Table	Row	Column
;	File	Record	Field
	Relation	Tuple	Attribute
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KROENKE and AUER	- DATABASE CONCEPTS (4ª Edition) © 2010 2008 Pear Uniqueness	son Prentice Hall	RO
	Unique Key	Non-unique Key	
	Data value is unique for each row. Consequently, the key will	Data value may be shared among several rows. Consequently, the key will identify	
	Course: DE4, Course Teacher	Dr. D. M. Akbar Hussain	-14

	ATABASE CONCEPTS	(4 rd Edition) © 2	2010 2008 Pearson Prentice F	lall	and the second s	SBJERG
EM	PLOYEE (Emp	oloyeeNu	mber, LastName,	Departmen	nt, Email, Ph	one)
		Lastivanie		Accounting	024 1100	-
	200	Abernathy	MA@somewhere.com	Finance	034-1100	
	200	ADEITIALITY	INALWSUITEWHELE.CUIT	Fillance		
	200	Smathere	I S@somewhere.com	Finance	934-2100	
-	300	Smathers	LS@somewhere.com	Finance	834-2100 834-2100 834-1100	-
	300 400 500	Smathers Caruthers	LS@somewhere.com TC@somewhere.com	Finance Accounting Production	834-2100 834-2100 834-1100 834-4100	-
-	300 400 500 600	Smathers Caruthers Jackson Caldera	LS@somewhere.com TC@somewhere.com TJ@somewhere.com EC@somewhere.com	Finance Accounting Production	834-2100 834-2100 834-1100 834-4100 834-3100	
	300 400 500 600 700	Smathers Caruthers Jackson Caldera Bandalone	LS@somewhere.com TC@somewhere.com TJ@somewhere.com EC@somewhere.com RB@somewhere.com	Finance Accounting Production Legal Legal	834-2100 834-2100 834-1100 834-4100 834-3100 834-3100	
	300 400 500 600 700	Smathers Caruthers Jackson Caldera Bandalone	LS@somewhere.com TC@somewhere.com TJ@somewhere.com EC@somewhere.com RB@somewhere.com	Finance Accounting Production Legal Legal	834-2100 834-1100 834-1100 834-4100 834-3100 834-3100	-











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	Primary Key button The key symbol indicates which column or columns are being used as the primary key	(()) () () () (() () () () (Para Costo Para Costo Costo Para Costo Costo Para Costo Costo Para Costo Para Para Para Costo Para Costo Costo Para Para Para Para Para Para Para Para	toternal Da Specifican Totels	Berger Berger Priset Rever Politik Rever Dotkup Column AutONumber Text Text Text Text Text	Property S Sheet Sheet CC T	tem DEC-WHATCourse-Out() Entelone where the second	(kross 2005 - Microsoft Access - * X
		Berigation Pase	General Justice Prior See New York New York Defension Ted Align Ted Align Ted Align	Lang Drep Incoment Inc Sic Dug General F1 = Yang	none:		Ped Passing	A high same up to up to 4 it investment into anothing up ess. Ans (1 is help us that barry.

ROENKE and AUER - DATABASE CONCEPTS Defining the	(4 rd Edition) © 2010 2008 Pearson Prentice Hall Primary Key in Microsoft SQL Server 2005	ESBJERO
Primary Key button The key symbol	% Mouse NO. Sever Management State File Mark Was Data State Science Tests Window Community: Help State House Data Distributions State House Data Distributions State House Data Distributions State House Data Distributions State House Distributions State Distret State Distributio	
indicates which column or columns are being used as the primary key	Constant and a second s	
The Is Identity setting The Identity Increment setting	Advances	•
The Identity Seed setting	Course: DE4, Course Teacher: Dr. D. M. Akbar Hussain	2.22

KROENKE and AUE	r - database concepts (4 Defining	^d Edition) © 2010 2008 Pearson Prentice Hall	ESBJERG
	The key symbol indicates which column or columns are being used as the primary key	Wyldy Charge Neuerie-Connections modificational 2006 / 44, junced, abatantia Wyldy Charge Neuerie-Connections Wyldy Charge Neuerie-Connect	























KROENKE and AUE	ER - DATABASE CONCEPTS (4 rd Edition) © 2010 2008 Pearson Prentice Hall Foreign Keys in MySQL	ESBJERO
	The relationship is between CUSTOMER and ENROLLMENT Image: State of the state of th	<complex-block></complex-block>









Candidate	rts (4 rd Edition) ©	2010 2008 Pears	ion Prentice Hall	onal Depender	ancy esajer
 By definition A candidate attributes in 	n key of a re the row	elation will	functionally	[,] determine all o	ther
 Likewise, by A primary k attributes in 	v definition. ey of a rela 1 the row	 ation will fu	unctionally c	letermine all oth	er
 Likewise, by A primary k attributes in 	v definition. ey of a rela a the row	 ation will fu	inctionally c	letermine all oth	er
 Likewise, by A primary k attributes in EmployeeNumber 	v definition. ey of a rela the row ar FirstName	ution will fu	Department	letermine all oth	er
 Likewise, by A primary k attributes in EmployeeNumber 100 	v definition. ey of a relation the row	 ation will fu LastName Johnson	Department	Email	Phone 236-9987
 Likewise, by A primary k attributes in EmployeeNumbe 100 200 	v definition. ey of a relation the row ar FirstName Jerry Mary	LastName Johnson Abernathy	Department Accounting Finance	Email JJ@somewhere.com	Phone 236-9987 444-8898
 Likewise, by A primary k attributes in EmployeeNumber 100 200 300 	v definition. ey of a related the row er FirstName Jerry Mary	LastName Johnson Abernathy	Department Accounting Finance Finance	Email JJ@somewhere.com MA@somewhere.com	Phone 236-9987 444-8898 777-0098
 Likewise, by A primary k attributes in EmployeeNumbe 100 200 300 400 	v definition. ey of a related the row ar FirstName Jerry Mary Liz Tom	LastName Johnson Abernathy Smathers Caruthers	Department Accounting Finance Accounting Accounting	Email JJ@somewhere.com MA@somewhere.com LS@somewhere.com TC@somewhere.com	Phone 236-9987 444-8898 777-0098 236-9987
 Likewise, by A primary k attributes in EmployeeNumber 100 200 300 400 500 	v definition. ey of a related the row er FirstName Jerry Mary Liz Tom Tom	LastName Johnson Abernathy Smathers Caruthers Jackson	Department Accounting Finance Accounting Production	Email JJ@somewhere.com MA@somewhere.com LS@somewhere.com TC@somewhere.com TJ@somewhere.com	Phone 236-9987 444-8898 777-0098 236-9987 444-9980
 Likewise, by A primary k attributes in EmployeeNumber 100 200 300 400 500 600 	v definition. ey of a relation the row ar FirstName Jerry Mary Liz Tom Tom Eleanore	LastName Johnson Abernathy Smathers Caruthers Jackson Caldera	Department Accounting Finance Accounting Production Legal	Email JJ@somewhere.com MA@somewhere.com TC@somewhere.com TI@somewhere.com EC@somewhere.com	er 236-9987 444-8898 777-0098 236-9987 444-9980 767-0900















	KROENKE and AUE	R - DATABASE CONC	EPTS (4 rd Editio	on) © 2010 2008	Pearson Prentice H	all	ESR.ERG
	***		N	ormaliza	ation Exan	nple	
			StudentNum	StudentName	DormName	DormCost	
l			100	Smith	Stephens	\$3.500.00	
l			200	Johnson	Alexander	\$3,800.00	
1			300	Abernathy	Horan	\$4,000.00	
1			400	Smith	Alexander	\$3,800.00	
l			500	Wilcox	Stephens	\$3,500.00	
L			600	Webber	Horan	\$4,000.00	
L			700	Simon	Stephens	\$3,500.00	
		However, (DormNar	if ne) —) (C)ormCost)	2011110, 201	in ously
		Then Dorr relations:	nCost shou	ild be place	ed into its owr	ı relation, resulti	ng in the
		(Studentil	D)	→ (S	tudentName,	DormName)	
		(DormNar	ne)	→ (C	ormCost)		
			Course:	DE4, Course Tea Department o	cher: Dr. D. M. Ak f Electronic System	bar Hussain Is	2-48

KROENKE and AUER -	DATABASE CONC	EPTS (4 rd Edition)	© 2010 2008 Pears	son Prentice Hall	SBJERO
					- I
	StudentNum	StudentName	DormName	DormName DormCost	_
	100	Smith	Stephens	Stephens \$3,500.00	-
	200	Johnson	Alexander	Alexander \$3,800.00	-
	300	Abernathy	Horan	Horan \$4,000.00	4
	400	Smith	Alexander		
	500	Wilcox	Stephens		
	600	Webber	Horan		
	700	Simon	Stephens		
		Course: DE	4, Course Teacher: Department of Elec	Dr. D. M. Akbar Hussain tronic Systems	2-49

E and AUER - DATAE	JASE CONCEPTS	(4 rd Edition) © 2010 21	308 Pearson Prenti	ce Hall Example	MAR	ESBJ
	Attorney	ClientNumber	ClientName	MeetingDate	Duration	
	Boxer	1000	ABC, Inc	5/5/2006	2.00	
	Boxer	2000	ZZZ Partners	5/5/2006	5.50	
	James	1000	ABC, Inc	5/7/2006	3.00	
	Boxer	1000	ABC, Inc	5/9/2006	4.00	
	Wu	3000	Malcomb Zoe	5/11/2006	7.00	
(Client	er, II (Number)	> (Clie	entName)			
Then C relatio	lientName sl ns:	nould be place	d into its own	relation, resul	lting in the	
(Attorr	neyID,ClientII	D)	lientName, N	leetingDate, D	uration)	
1011		(0)	a			
(Client			4			

KROENKE and AUER - DA	ATABASE CONC	Norn	n) © 2010 2008 F	Pearson Prentice F	ample	ESBJERG
	Attorney	ClientNumber	MontingDate	Duration	ClientNumb	or ClientName
	Boxer	1000	5/5/2006	200	1000	ABC Inc
	Boxer	2000	5/5/2006	5.50	2000	777 Partners
	James	1000	5/7/2006	3.00	3000	Malcomb Zoe
	Boxer	1000	5/9/2006	4.00		111000110 200
	Wu	3000	5/11/2006	7.00		
		Course: D	E4, Course Tea Department of	cher: Dr. D. M. Ak Electronic Systen	bar Hussain	2-51

Important Cattering Display Dosage CustomerName CustomerPhone CustomerEmail P10001 10/17/2006 DrugA 10mg Alvin 575.323.2233 ASmith@somewhere.com P10003 10/17/2006 DrugA 20mg Sarah Smith 575.323.2233 ASmith@somewhere.com P10004 10/17/2006 DrugA 20mg Sarah Smith 575.334.4455 URbodes@somewhere.com P10007 10/18/2006 DrugC 25mg Jeff Rhodes 575.334.4455 JRhodes@somewhere.com P10010 10/18/2006 DrugC 25mg Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 675.333.2233 SSmith@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 675.333.2323 SSmith@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 675.333.2323 SSmith@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com <	KROENKE and AUER	- DATABASE CONCE	EPTS (4 rd Ed	dition) © 20	010 2008	Pearson Prenti	ce Hall	Sa S	BJERO
PrescriptionNumber Date Drug Dosage CustomerName CustomerPhone CustomerEmail P10001 10/17/2006 DrugA 10mg Alvin 575.323.2233 ASmith@somewhere.com P10003 10/17/2006 DrugA 20mg Sarah Smith 575.334.4455 JBhdes@gsomewhere.com P10007 10/17/2006 DrugC 20mg Sarah Smith 575.334.4455 JBhdes@gsomewhere.com P10010 10/18/2006 DrugC 25mg Jeff Rhodes 575.334.4455 JRhodes@somewhere.com P10010 10/18/2006 DrugC 25mg Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Michael Frye 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com J	**		IVIC		ICal	.1011 P.	ropiem		
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CustomerName CustomerPhone CustomerEmail Alvin Smith 575.332.2233 ASmith@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Sarah Smith 575.334.4455 JRhodes@somewhere.com Michael Frye 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com Jeff Rhodes 575.334.4455 JRhodes@somewhere.com P10001 10/17/2006 Drug Dosage CustomerEmail P10003 10/17/2006 Drug ASmith@somewhere.com P10003 10/17/2006 Drug Smith@somewhere.com P10007 10/18/2006 DrugC 20mg Smith@somewhere.com P10007 10/18/2006 DrugC 20mg Smith@somewhere.com P10010 10/18/2006 DrugC 20mg Smith@somewhere.com P10010 10/18/2006 DrugC 20mg JRhodes@somewhere.com		P10010	10/18/2006	DrugC	25mg	Jeff Rhodes	575.334.4455	JRhodes@somewhere.com	
PrescriptionNumber Date Drug Dosage CustomerEmail P10001 10/17/2006 DrugA 10mg ASmith@somewhere.com P10003 10/17/2006 DrugA 35mg JRhodes@somewhere.com P10004 10/17/2006 DrugA 20mg SSmith@somewhere.com P10007 10/18/2006 DrugC 20mg MFrye@elsewhere.com P10010 10/18/2006 DrugC 25mg JRhodes@somewhere.com		C A J S S J J	CustomerNan Alvin Smith eff Rhodes Sarah Smith Aichael Frye eff Rhodes	ne Custor 575.32 575.33 575.32 575.34 575.34 575.33	merPhone (3.2233) (4.4455) (3.2233) (5.6677) (4.4455)	CustomerEma ASmith@some JRhodes@som SSmith@some MFrye@elsewh JRhodes@som	il where.com where.com where.com here.com ewhere.com		
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P10010 10/18/2006 DrugC 25mg JRhodes@somewhere.com		P10007		10/18/2006	DrugC	20mg MF	rye@elsewhere.cor	<u>n</u>	
		P10010		10/18/2006	DrugC	25mg JR	hodes@somewhere.	com	
Course: DE4, Course Teacher: Dr. D. M. Akbar Hussain		-	Cours	e: DE4, Co	ourse Tea	acher: Dr. D. M.	. Akbar Hussain		2-52