FROM oustoner c JON sales_representative & ON c. sreid = s.id team t ON c. teamid = t.id; PART J - Applying Additional conditions to a join DELECT c. etr-number, c. first_name "Customer First Name" c. last_name "customer Last Name", c. phone_number "Customer Phone Number "c. email "customer Email", s. id "Sales Representative 10", s. first_name "Sales Representative First Name", s. last_ name " Sales Representative Last Name"; s. enail "Sales Representative Email", t. name "TBAM Name" From customer c JoIN sales-representative on c. sre-id = s.id JON teams toN c. team_id = +.id: WHERE c. ofr_number = 'coool'; Part 6 - Retrieving record with nonequijoins

1. DELECT 'The cost of the '1| i. name 11 'on this day was' 11 ph. price
As output from item; LEFT JOIN price-history ph ON i.Hm_number WHERE i.Hm_number = 'imotio1045' AND TO_DATE '12-Dec-2016', 'DD-Mon-YYYY') BETWEEN oh. Start-date
AND NULL ph. end_date, TO_DATE ('31-Dec-9999', DD-Mon-YYYY') SQL 4 - PART 2 Part 1 - Use a self-join to join a table to itself SELECT SI. first_name 11' 11 SI. last_name AS Rep, Sz. first_name 11 "11 92.10st_name AS superisor From sales_représentative 31 Join sales_representative 82 ON SI. supervisor = 92-2d; Part 2 - use order joins 1. SELECT t*, c* From LEFT JOIN customers C ON +. id = c. team_id Part 3 - Generating a Cartesian Product 1. SELECT * FROM outlomer, sales-representative;

Part 1

Part 1: Creating Natural Joins

1

∯ ID ∜	EMAIL		\$ LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	\$ SUPERVISOR_ID	∯ ADD	DRESS_LINE_1		⊕ CITY	ZIP_CODE
1 sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 C	nerry Lane	Denton	Detroit	DT48211
2 sr02 v	wright@obl.com	Victoria	Wright	0134598762	5	sr01	87 B	lossom Hill	Uptown	Detroit	DT52314
3 sr03 h	ospeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Ju	unction Row	Skinflats	Detroit	DT52564

2

	∯ ID					∜ CITY	⊕ EMAIL	♦ PHONE_NUMBER
1	sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
2	sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
3	sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

Part 2: Creating Joins with the USING Clause

1

	∯ ID	♦ FIRST_NAME	LAST_NAME	ADDRESS_LINE_1		CITY		PHONE_NUMBER
1	sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
2	sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
3	sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

2

	NAME	♦ DESCRIPTION	♦ CATEGORY	♦ COLOR	Size	♦ ILT_ID	♦ START_DATE	♦ START_TIME	♦ PRICE	♦ END_DATE	♦ END_TIME	
1 im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124	17-JUN-17	17-JUN-16	4.99	(null)	(null)	im01101044
2 im01101045	under shirt	top worn under the game top	clothing	white	S	i1010230125	25-NOV-16	25-NOV-16	14.99	25-JAN-17	25-JAN-17	im01101045
3 im01101045	under shirt	top worn under the game top	clothing	white	S	i1010230125	25-JAN-17	25-JAN-17	8.99	25-JAN-17	25-JAN-17	im01101045
4 im01101045	under shirt	top worn under the game top	clothing	white	S	i1010230125	26-JAN-17	26-JAN-17	15.99	(null)	(null)	im01101045
5 im01101046	socks	team socks with emblem	clothing	range	1	i1010230126	12-FEB-17	12-FEB-17	7.99	(null)	(null)	im01101046
6 im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127	25-APR-17	25-APR-17	24.99	(null)	(null)	im01101047
7 im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128	31-MAY-17	31-MAY-17	149	(null)	(null)	im01101048
8 im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128	10-NOV-23	10-NOV-23	99.99	(null)	(null)	im01101048

Part 3: Creating Joins with the ON Clause

1

♦ CTR_NUMBER	Oustomer First Name		Customer Phone Number	() Customer Email	Sales Representative ID	Sales Representative First Name		♦ Sales
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray
2 c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray
3 c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspee



Part 4- Creating Three-Way Joins with the ON Clause

1

me	Customer Last Name	Customer Phone Number	⊕ Customer Email	Sales Representative ID	Sales Representative First Name	§ Sales Representative Last Name	Sales Representative Email	Team Name
1	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
2	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
3	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

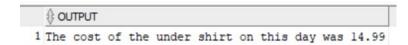
Part 5: Applying Additional Conditions to a Join

1



Part 6: Retrieving Records with Nonequijoins

1



Part 2

Part 1: Use a Self-Join to Join a Table to Itself

1

	∯ REP	
1	Charles Raymond	Charles Raymond
2	Victoria Wright	Charles Raymond
3	Barry Speed	Charles Raymond

Part 2 : Use OUTER joins

1

	\$ V	NAME NAME NAME NAME	NUMBER_OF_PLAYERS	♦ DISCOUNT				LAST_NAME	♦ PHONE_NUMBER	
1	t001	Rockets	25	10	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	15
2	t002	Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.
3	t003	Rovers	8	(null)	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.6
4	t004	Jets	10	5	(null)	(null)	(null)	(null)	(null)	(null

CURRENT_BALANCE	\$ SRE_ID	♦ TEM_ID	\$ LOYALTY_CARD_NUMBER
150	sr01	t001	(null)
987.5	sr01	t002	(null)
125.65	sr03	t003	(null)
(null)	(null)	(null)	(null)

Part 3 : Generating a Cartesian Product

		FIRST_NAME		♦ PHONE_NUMBER	CURRENT_BALANCE	\$ SRE_ID	↑ TEM_ID	♦ LOYALTY_CARD_NUMBER	∯ ID		FIRST_NAME_
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr01	chray@obl.com	Charles
2 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015	sr01	chray@obl.com	Charles
3 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr01	chray@obl.com	Charles
4 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr01	chray@obl.com	Charles
5 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr01	chray@obl.com	Charles
6 c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr01	chray@obl.com	Charles
7 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr02	vwright@obl.com	Victoria
8 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015	sr02	vwright@obl.com	Victoria
9 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr02	vwright@obl.com	Victoria
10 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr02	vwright@obl.com	Victoria
11 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr02	vwright@obl.com	Victoria
12 c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr02	vwright@obl.com	Victoria
13 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr03	bspeed@obl.com	Barry
14 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015	sr03	bspeed@obl.com	Barry
15 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr03	bspeed@obl.com	Barry
16 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr03	bspeed@obl.com	Barry
17 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr03	bspeed@obl.com	Barry
18 c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	lc4587	sr03	bspeed@obl.com	Barry

\$LAST_NAME_1	PHONE_NUMBER_1		\$ SUPERVISOR_ID
Raymond	0134598761	10	sr01
Raymond	0134598761	10	sr01
Raymond	0134598761	10	sr01
Raymond	0134598761	10	sr01
Raymond	0134598761	10	sr01
Raymond	0134598761	10	sr01
Wright	0134598762	5	sr01
Wright	0134598762	5	sr01
Wright	0134598762	5	sr01
Wright	0134598762	5	sr01
Wright	0134598762	5	sr01
Wright	0134598762	5	sr01
Speed	0134598763	5	sr01
Speed	0134598763	5	sr01
Speed	0134598763	5	sr01
Speed	0134598763	5	sr01
Speed	0134598763	5	sr01
Speed	0134598763	5	sr01