Lob 4 Tay shin we: ADECO110 Part 1

Part 1: Creating Natural joins.

1. SELECT * FROM Sales- representatives 9 Natural Joins sales_rep-addressig 41

2. SELECT it, first_name, last_name, address_line_1, address_line_2, city, email, phone_number FROM sales - representatives y NATURAL JOIN sales - rep - address oddresses,

Part 2; creating joins with the using clause

1. SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number FROM sales representatives John sales rep - addresses using cid);

). SELECT * PROM items JOIN price_history on items.; tm-number = price -history.itm-number;

Part 3: creating Joins with the ON clause

1. SELECT c. ctr_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. email " Sales Representative Email" FROM customer C JoIN sales-happesentative s ON C. Sre-id = s.idj

Part 4-creating three -way Joins with the ON clause

1. SELECT c. ctr_number , c. first_name "Customer first Name", c. last_name "customer last Name" C. phone_number "Customer Phone Number", c. email "customer Emoil", s. id "Sales Representative 10", S. first_name "Sales Representative First Name", S. lost_name "Sales flepted Representative Last announce", S. email "sales Representative Email" FROM customer c John Sales . representative s ON C. Sedid=S. W
Tolly that ON C. tom il at 11.

Part 5: Applying Additional conditions to a Join

1. SELECT c.ctr_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 "soles Representative 10";

S.first_name "Sales Representative First Nome", s.last_name "Sales Representative 10";

S.email "Sales Representative Email", t.name "TBAM home" FROM customer c

John sales - representative s on c.sre_id=s.id John teams t on c.tem-id=tid!

Port 6: Retrieving Record with Nonequijoins

1. SELECT The cost of the 'll i name II 'on this day was 'll ph. price As output FROM item; LEFT JOIN price history ph on i.itm-number = ph itm_number wHERE i.itm-number = imolio 1045' AND TO_DATE ('12-Dec-2016', '00-Mon-YYYY') BETWEEN ph. Start - date AND NVL (ph.end - date, TO-DATE ('31-Dec-9999', DD-Mon-YYYY')):

Part o

Part 1: use a self-Join to Join a table to Itself

1. SELECT S1. first_name 11' '11 S1. last_name AS Rep, 52. first_name 11' '11 S3. last_name As Supervisor FROM sales - representative S1 John sales_representative S2 ON S1. supervisor_id=s1.idj

Part 2: use outer joins

1. SELECT t.*, c.* from LEFT Join customers c ON t.id=c.tem_id;

Part 3: Generating a cartesian Product

1. SELECT * FROM customer, Sales - representative;

Part 1

Part 1: Creating Natural Joins

1

∯ ID				♦ PHONE_NUMBER		\$ SUPERVISOR_ID				
1 sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211
2 sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01	87 Blossom Hill	Uptown	Detroit	DT52314
3 sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Junction Row	Skinflats	Detroit	DT52564

2

	∯ ID		\$ LAST_NAME					♦ 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_2	⊕ 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

2

	NAME	♦ DESCRIPTION		♦ COLOR	Size		\$ 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	11010230125	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	Customer First Name		Customer Phone Number	Customer Email	Sales Representative ID	🚯 Sales Representative First Name	Sales Representative Last 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



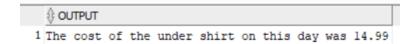
Part 5: Applying Additional Conditions to a Join

1



Part 6: Retrieving Records with Nonequijoins

1



Part 2

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

1

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

Part 2 : Use OUTER joins

1

	\$ T	♦ 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

	\$ 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

CTR_NUMBER			\$LAST_NAME	PHONE_NUMBER			↑ TEM_ID	\$LOYALTY_CARD_NUMBER	∯ ID		
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)	1c1015	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)	1c1015	sr02	vwright@obl.com	Victoria
9 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr02	vwright@obl.com	Victoria
0 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr02	vwright@obl.com	Victoria
1 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr02	vwright@obl.com	Victoria
2 c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr02	vwright@obl.com	Victoria
3 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr03	bspeed@obl.com	Barry
4 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015	sr03	bspeed@obl.com	Barry
5 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr03	bspeed@obl.com	Barry
6 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr03	bspeed@obl.com	Barry
7 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	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

18 c02001	brianrog@hootech.com	Brian	Rogers	01654564898		50 (null)	(null)	1c4587	sr03 bspeed@obl.com Barry
Speed	013459876	3			5 sr01				