	No.:	Date:	
	Name: Nur Balqis Batrisyia Binti Saidin Syazii	<u> </u>	
	Watric No : BIBC80066		_
	Date: 17/17/2013	-Ita Taras	
	Title: Lab Exercise 4 (sQL4:DML3)	1" 22 - 41-	_
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	Section 6 Lesson 9 Exercise 11 - State 22 1-11-11	e pro 23 me	_
			_
	Part 1	A 1163	
	SELECT TO THE ME WILLD TO AND TOUGHT DO THE	detto I did' I	
	FROM sales-representatives NATURAL JOIN sales-rep	_addresses;	
	= 20000 161 p = 100		
٦.	SELECT id, first_name, last_name, address_line_1, address_	line_2 city	0
	email, phone-number		
	FROM sales-representatives NATURAL JOIN sales-rep-a	ddresses;	
		•	
	PARTIZE TO TESTINE STENDING SECOND SIMPLE OF TESTINE	Simple Topula I	
	4	Emp91_MO41	
1 -	SELECT *	NOT YEL ARIAD	
	FROM sales-representatives JOIN sales-rep-addresses		
	USINGICIA) 3-1 HERE SENTING TO -TID MENON SHIPLE HELDST "	2. ELECT MAINS	
	,	FROM FROMS	
	SELECT id, first_name, last_name, address_line_1, address	ss-line 2 city,	
	email, phone_number		
	FROM cales - representatives Join sales - rep - addresses	SELLECT MAINE	
	USING (id)	Proposition 1	0
		on Yal assuro	
ے	SELECT *		
	FROM items JOIN price_history	J 2 01 -11 -56	
	using (itm_number);		
		1 + 1101	
	Part 3		
= at-H	1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	unatid Ladas I	
١.	SELECT c.ctr_number "customer Number", c.first_name "cus	tomer First Name,	
	c-last_name "customer last name", c-phone_number "ci		
	Number, c-email " customer Email", s-id "sales Rep 10		
	"sales Rep First Name", s.last_name " sales Rep Last No		
	"Sales Rep Email"	, , ,	
	FROM customers c JOIN sales-representatives s	+11.1	
	ON (c.sre-id = s.id);	111-1	
		0.000	
	TOTAL PROPERTY OF THE PROPERTY OF STATES	7711 1 107 5	-

	No.:	Date:
	Part 4	freezent free distribution
		imber", c-first-hame "Customer First Name",
		me", c-phone-number " customer phone Humber",
- C. U.		Sales Rep ID, s-first name cales Rep First
		Last name, s.email "soles Rep Email,
		Lille Land Company Com
	FROM customets c JOIN sales-to	epresentatives s
	ON (C-STE_Td = 5-Td)	
	101N +6aws +	£ 1.17.4
	Ou (+.īd = +.īd);	
		* []
	Part 5	RUS RUCHIER THE FORST MONT
		(1, 1 = 1, 1) 10
	1. SELECT C.CIT_NUMBER "Customer Nu	imber, c-first_name "customer First Hame",
		ame ". c-phone-number "Customer Phone Number,
	c.eman " customer Email, s.id	"Sales Rep ID", s-first_name "Sales Rep First
	Name, s-last-hame "Sales Rep	Last Name", s.emaîl " Sales Rep Emaîl", + name
	"TEOM NAME"	The transfer of the party of the first
	FROM customers c Join sales-r	epresentatives s
	ON (c-sre-id = s-id)	
	JOIN teams t	
	on C+-id = +.id)	
	WHERE C-CHI-NUMBER = 'C 00001	<u>';</u>
		,
	part 6	
4		
	1. SELECT 'The cost of the Il i-hame	Il on this day was II h-price
	ON (1-1H-Id = 1-1d)	
	JOIN price-history h	
	ON ( i · itm_number = h · itm_number	( 790
		45 AND H-Start-date < 12-Dec-2016
		016'-
	AND THEIR BOATE > 12 UCC-20	716—)



No.:	Date:
Section & Lesson 9 Exercise 2	PITLI
Parti Least his sone lent of the Mila Teath	1. 22 - 1. 21 (6AL-11) - 2 - 1 Jan 18 - 1
Print a lettingsher Danner State Company	Landrak Sadar-tipro
1. SELECT r.first_name Il' Il r-19st_name	
11 ' 11 s.last_name "supervisor"	e Samon Fall a Samon
FROM soles-representatives t Join sales-	
on (+-supervisor-id = s-id);	
	(Lier night ) No
Part 2	+ 400+ 1005
	[(b) + = f + + 1) HO
1- SELECT *	
FROM teams + LEFT OUTER JOIN CUSTOMETS C.	7 + 1/ °l
ON (+-Id = +-Id);	
Price to a locality of sufferential of telephone regis	1.75 1.21 (2.17)
Part 301 00 1-17 mars Sul (1) Smith total	
told you was the file if you as the interior	
SELECT * 10 TO 2 " Laure Tought Last 1 1 2 1	
FROM customers c, sales_representatives +;	
Sexification of the	11-6 3-1-11-1-N K-041
	$(D) := L_1 - D \cup D \cup D$
	T SHUPP, NILE
	(64:1=417246
1-1-2-2-2	= 1.3mml-u-c Sagday
	0 11-11
Sangali Competition of the Son of a	16 241 (246 3 311 124) 3 -4
	Marinetta Herri I
	(111 = 11-11 1) M2
	11 Kento, 1- Sant 18126
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Since was an a spread of July Bear hang	
	51 X 2006-150 H 1MA
	The state of the s

## Section 6 Lesson 9 Exercise 1

Part 1 : Creating Natural Joins

1 v SELE													
2 FROM	2 FROM sales_representatives NATURAL JOIN sales_rep_addresses;												
ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	СІТҮ	ZIP_CODE			
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211			
sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01	87 Blossom Hill	Uptown	Detroit	DT52314			
sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01	12 Junction Row	Skinflats	Detroit	DT52564			
Download CSV													
3 rows s	selected.												

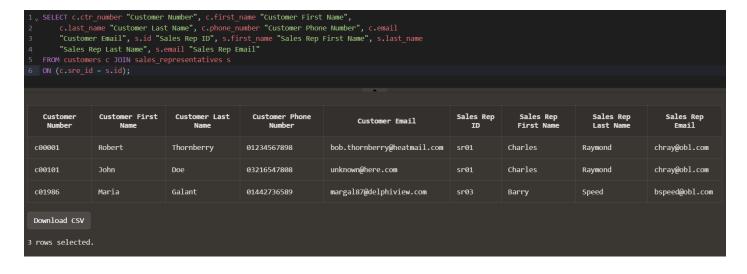
<pre>1</pre>											
ID FIRST_NAME LAST_NAME ADDRESS_LINE_1 ADDRESS_LINE_2 CITY EMAIL PHONE_NUMBER											
sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761				
sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762				
sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763				
Download CSV 3 rows selected.											

Part 2: Creating Joins with the USING Clause

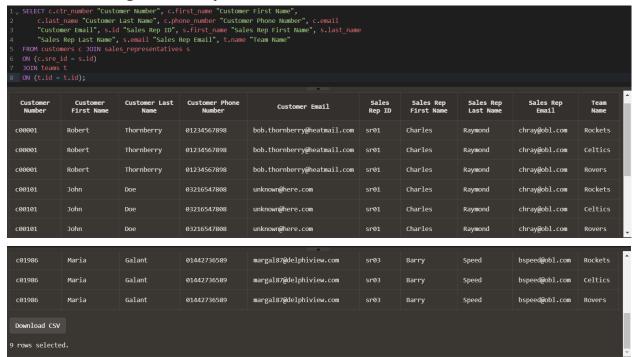
2 FROM 3 USIN 4 5 SELE 6 FROM	<pre>1</pre>												
ID	EMAIL	FIRST NAME	LAST NAME	PHONE NUMBER	COMMISSION RATE	SUPERVISOR ID	ADDRESS LINE 1	ADDRESS LINE 2	сіту	ZIP_CODE			
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211			
sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01	87 Blossom Hill	Uptown	Detroit	DT52314			
sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01	12 Junction Row	Skinflats	Detroit	DT52564			
	Download CSV  3 rows selected.												

```
FROM sales representatives JOIN sales rep addresses
   USING (id);
6 FROM sales representatives JOIN sales rep addresses
7 USING (id);
з rows seтестеа.
                                                            ADDRESS_LINE_2
                                                                                  CITY
                                                                                                  EMAIL
         FIRST_NAME
                         LAST_NAME
                                        ADDRESS_LINE_1
                                                                                                                  PHONE_NUMBER
  TD
                                                                                            chray@obl.com
         Charles
                                       12 Cherry Lane
                                                                                Detroit
 sr01
                         Raymond
                                                            Denton
                                                                                                                 0134598761
         Victoria
                         Wright
                                       87 Blossom Hill
                                                            Uptown
                                                                                Detroit
                                                                                            vwright@obl.com
                                                                                                                 0134598762
 sr02
                                                            Skinflats
 sr03
         Barry
                         Speed
                                       12 Junction Row
                                                                                Detroit
                                                                                            bspeed@obl.com
                                                                                                                 0134598763
 Download CSV
3 rows selected.
                              DESCRIPTION
 ITM NUMBER
               NAME
                                                  CATEGORY
                                                           COLOR Size
                                                                           ILT ID
                                                                                     START DATE START TIME PRICE
                                                                                                                  END DATE
                                                                                                                             END TIME
 im01101044 gloves
                        catcher mitt
           under shirt
                       top worn under the game top
                                                                                                                  25-JAN-17
                                                                                                                             25-JAN-17
 im01101045 under shirt
                        top worn under the game top
                                                 clothing
                                                           white
                                                                         il010230125
                                                                                     25-JAN-17
                                                                                                25-JAN-17
                                                                                                           8.99
                                                                                                                  25-JAN-17
                                                                                                                            25-JAN-17
 im01101045
                        top worn under the game top
                                                 clothing
           under shirt
                                                           white
                                                                         il010230125
                                                                                     26-JAN-17
                                                                                                26-JAN-17
                                                                                                           15.99
                        team socks with emblem
 im01101046
 im01101047
            game top
                        team shirt with emblem
                                                                         il010230127
                                                                                     25-APR-17
                                                                                                           24.99
 im01101048 | premium bat | high quaity basball bat
                                                 equipment
                                                                         il010230128 31-MAY-17
                                                                                                31-MAY-17
                                                                                                           149
Download CSV
7 rows selected
```

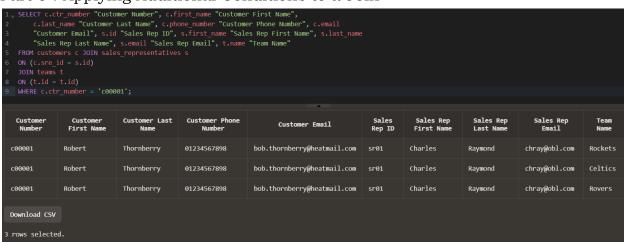
Part 3: Creating Joins with the ON Clause



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



## Part 5: Applying Additional Conditions to a Join



Part 6: Retrieving Records with Nonequijoins

```
1    SELECT 'The cost of the ' || i.name || 'on this day was ' || h.price
2    FROM items i JOIN inventory_list l
3    ON (i.ilt_id = l.id)
4    JOIN price_history h
5    ON (i.itm_number = h.itm_number)
6    WHERE i.itm_number = 'im01101045' AND h.start_date < '12-Dec-2016' AND h.end_date > '12-Dec-2016';

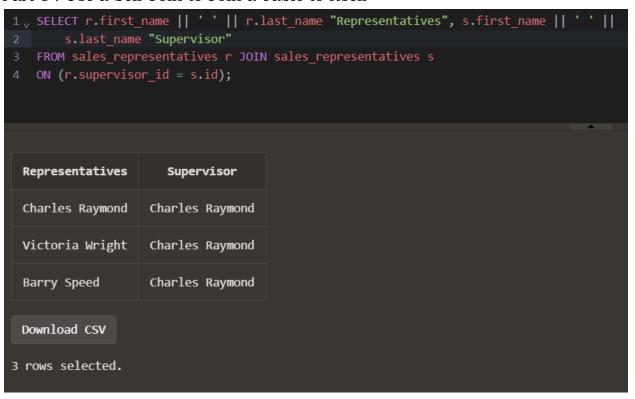
'THECOSTOFTHE'||I.NAME||'ONTHISDAYWAS'||H.PRICE

The cost of the under shirton this day was 14.99

Download CSV
```

## Section 6 Lesson 9 Exercise 2

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



Part 2: Use OUTER Joins

1, SELECT *  FROM teams t LEFT OUTER JOIN customers c  ON (t.id = t.id);												
ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
t001	Rockets	25	10	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	
t001	Rockets	25	10	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0			1c1015
t001	Rockets	25	10	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	
t001	Rockets	25	10	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			1c2341
t001	Rockets	25	10	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	
t002	Celtics	42	20	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	
t002	Celtics	42	20	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0			1c1015
t002	Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr <b>01</b>	t002	
t002	Celtics	42	20	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			1c2341
t002	Celtics	42	20	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	
t003	Rovers	8		c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	
t003	Rovers	8		c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0			1c1015
t003	Rovers	8		c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	
t003	Rovers	8		c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			1c2341
t003	Rovers	8		c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	
Download CSV												

Part 3 : Generating a Cartesian Product

1 SELECT * 2 FROM custo	mers c, sales_representatives	r;													
CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER	ID	ENAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001		sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598				1c1015	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			lc2341	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001		sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598				1c1015	sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			1c2341	sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01
c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr02	vwright@obl.com	Victoria	Wright	0134598762		sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001		sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598				lc1015	sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			1c2341	sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr03	bspeed@obl.com	Barry	Speed	0134598763		sr01
Download CSV															