

Lesson 9 Exercise 1

Part 1

1. `SELECT * FROM sales_representatives NATURAL JOIN sales_rep_addresses;`
2. `SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
FROM sales_representatives NATURAL JOIN sales_rep_addresses ;`

Part 2

1. `SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
FROM sales_representatives JOIN sales_rep_addresses USING (id);`
2. `SELECT * FROM items JOIN price_history USING (itm_number);`

Part 3

1. `SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email,
s.id, s.first_name, s.last_name, s.email
FROM customers c JOIN sales_representatives s
ON c.ste_id = s.id ;`

Part 4

1. `SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email,
s.id, s.first_name, s.last_name, s.email
FROM customers c JOIN sales_representatives s
ON c.ste_id = s.id ;
JOIN teams t
ON c.team_id = t.id ;`

Part 5

```
1. SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email,
        s.first_name, s.last_name, s.email
FROM customers c JOIN sales_representatives s
ON c.sre_id = s.id ;

JOIN teams t
ON c.team_id = t.id ;

WHERE c.ctr_number = 'C00001';
```

Part 6

```
1- SELECT 'The cost of the ' || name || ' on this day was ' || price
FROM items
NATURAL JOIN price_history
WHERE itm_number = '1m0101045'
AND start_date = '12-DEC-2011'
BETWEEN start_date AND end_date ;
```

Lesson 9 Exercise 2

Part 1

```
1- SELECT r.first_name || ' ' || r.last_name AS "Representatives",
        s.first_name || ' ' || s.last_name AS "Supervisor"
FROM sales_representatives r JOIN sales_representatives s
ON r.supervisor_id = s.id ;
```

Part 2

```
1. SELECT * FROM teams t RIGHT OUTER JOIN customers c
ON t.id = c.team_id;
```

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEAM_ID	LOYALTY_CARD
1	C001	Rockets	25	10	C00001	bob.thornberry@beastmail.com	Robert Thornberry	01234567898	150	sr01	c001	(null)
2	c002	Celtics	42	20	c00101	unknown@here.com	John Doe	03216547890	987.5	sr01	c002	(null)
3	c003	Rovers	8	(null)	c01886	marcel978@pignview.com	Maria Galant	01442736569	125.65	sr03	c003	(null)
4	(null)	(null)	(null)	(null)	c00012	Jyones@freemail.com	Jennifer Jones	01505214598	0	(null)	(null)	1c1015
5	(null)	(null)	(null)	(null)	c00103	Murciaa@globaltech.com	Andrew Murcia	07715246890	85	(null)	(null)	1c2341

Part 3

1. SELECT * FROM customers CROSS JOIN sales_representatives;

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEN_ID	LOYALTY_CARD_NUMBER	ID	EMAIL_1	FIRST_NAME_1	LAST_NAME_1	PHONE_NUMBER_1	COMMISSION_RATE	SUPERVISOR_ID
000001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	r001	(null)	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
000012	ljones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
000101	unknown@here.com	John	Doe	03216547808	987.5	sr01	r002	(null)	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
000103	MurciaAd@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
001986	margal87@delphiview.com	Maria	Galant	01442736889	125.65	sr03	r003	(null)	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
000001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	r001	(null)	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
000012	ljones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
000101	unknown@here.com	John	Doe	03216547808	987.5	sr01	r002	(null)	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
000103	MurciaAd@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
001986	margal87@delphiview.com	Maria	Galant	01442736889	125.65	sr03	r003	(null)	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
000001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	r001	(null)	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
000012	ljones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
000101	unknown@here.com	John	Doe	03216547808	987.5	sr01	r002	(null)	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
000103	MurciaAd@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
001986	margal87@delphiview.com	Maria	Galant	01442736889	125.65	sr03	r003	(null)	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01