⇒ Database

⇒ SQL-4

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Section

lesson 9 Exercise-1

Part-1

1) SELECT * FROM sales_representative NATURAL JOIN sales_rep_address ;

2) SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number FROM Sales_representative NATURAL JOIN sales_rep_address;

Part-2

1) SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number, FROM sales_representative JOIN sales_rep_address USING (id);

```
1  SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
2  FROM sales_representatives JOIN sales_rep_addresses
3  USING (id);
```

Results Explain Describe Saved SQL History

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

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(c) SELECT *
FROM items JOIN price_history
USING (itm_number);

```
1  SELECT *
2  FROM items JOIN price_history
3  USING (itm_number);
```

Results   Explain   Describe   Saved SQL   History

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
im01101044	gloves	catcher mitt	clothing	brown	m	iI010230124	06/17/2017	06/17/2016	4.99	-	-
im01101045	under shirt	top worn under the game top	clothing	white	s	iI010230125	11/25/2016	11/25/2016	14.99	01/25/2017	01/25/2017
im01101045	under shirt	top worn under the game top	clothing	white	s	iI010230125	01/25/2017	01/25/2017	8.99	01/25/2017	01/25/2017
im01101045	under shirt	top worn under the game top	clothing	white	s	iI010230125	01/26/2017	01/26/2017	15.99	-	-
im01101046	socks	team socks with emblem	clothing	range	l	iI010230126	02/12/2017	02/12/2017	7.99	-	-
im01101047	game top	team shirt with emblem	clothing	range	m	iI010230127	04/25/2017	04/25/2017	24.99	-	-

Part

Part - 3 :

1) SELECT ctr_number, c.first_name, c.last_name, c.phone_number, c.email, id, s.first_name, s.last_name, s.email FROM customers c JOIN sales_representative s ON (s.id = c.sre_id)

```
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
2  FROM customers c JOIN sales_representatives s
3  ON (c.sre_id=s.id);
```

Results   Explain   Describe   Saved SQL   History

CTR_NUMBER	FIRST_NAME	LAST_NAME	PHONE_NUMBER	EMAIL	ID	FIRST_NAME	LAST_NAME	EMAIL
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com
c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com

Part - 4

1)

SELECT c.ctr_number, c.first_name AS "CTR_FIRST_NAME"
c.last_name AS "CTR_LAST_NAME", c.phone_number AS
"CTR_PHONE_NUMBER", c.email AS "CTR_EMAIL",
s.id, s.first_name AS "SALES_FIRST_NAME", c.last_name
AS "SALES_LAST_NAME", s.email AS "SALES_EMAIL",
t.name AS "TEAM NAME" FROM customers c JOIN
sales_representatives s ~~ON~~
ON (c.sre_id = s.id)
JOIN teams t
ON (c.tem_id = t.id);

```
1  SELECT c.ctr_number , c.first_name AS "CTR_FIRST_NAME", c.last_name AS "CTR_LAST_NAME", c.phone_number AS "CTR_PHONE_NUMBER", c.email AS "CTR_EMAIL", s.id,
2  s.first_name AS "SALES_FIRST_NAME", s.last_name AS "SALES_LAST_NAME", s.email AS "SALES_EMAIL", t.name AS "TEAM NAME"
3  FROM customers c JOIN sales_representatives s
4  ON (c.sre_id=s.id)
5  JOIN teams t
6  ON (c.tem_id=t.id)
```

Results | Explain | Describe | Saved SQL | History

CTR_NUMBER	CTR_FIRST_NAME	CTR_LAST_NAME	CTR_PHONE_NUMBER	CTR_EMAIL	ID	SALES_FIRST_NAME	SALES_LAST_NAME	SALES_EMAIL	TEAM NAME
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

(9)

Part-5

(1)

SELECT ctr_number, c.first_name, c.last_name, c.phone_number,
c.email, s.id, s.first_name, s.last_name, s.email, t.name
"Team Name"

FROM customers c JOIN sales_representative s
ON (s.id = s.sre_id)
   JOIN teams t
   ON (t.id = c.tem_id)
   WHERE c.ctr_number = 'c00001';

```
1  SELECT c.ctr_number , c.first_name AS "CTR_FIRST_NAME", c.last_name AS "CTR_LAST_NAME", c.phone_number AS "CTR_PHONE_NUMBER", c.email AS "CTR_EMAIL", s.id,
2  s.first_name AS "SALES_FIRST_NAME", s.last_name AS "SALES_LAST_NAME", s.email AS "SALES_EMAIL", t.name AS "TEAM NAME"
3  FROM customers c JOIN sales_representatives s
4  ON (c.sre_id=s.id)
5  JOIN teams t
6  ON (c.tem_id=t.id)
7  WHERE c.ctr_number='c00001';
```

Results   Explain   Describe   Saved SQL   History

CTR_NUMBER	CTR_FIRST_NAME	CTR_LAST_NAME	CTR_PHONE_NUMBER	CTR_EMAIL	ID	SALES_FIRST_NAME	SALES_LAST_NAME	SALES_EMAIL	TEAM NAME
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets

(5)

Patit-6

1)

```sql
SELECT 'The cost of the ' || i.name || 'on this day was'
   || p.price As "Item Details"
FROM items i JOIN price_history p
ON ( '12/12/2016' BETWEN p.start_date AND p.end_date)
AND ( i.item_number = 'im0ll01045');
```

```
1   SELECT 'The cost of the ' || i.name || ' on this day was ' || p.price AS "Price Cost"
2   FROM items i JOIN price_history p
3   ON (i.itm_number=p.itm_number)
4   WHERE i.itm_number = 'im01101045'
5   AND (TO_DATE ('16-Dec-2016', 'DD-MM-YYYY') BETWEEN p.start_date AND p.end_date);
```

Results   Explain   Describe   Saved SQL   History

Price Cost

The cost of the under shirt on this day was 14.99

Lesson - 6 - Exercise - 2

Part - 1

SELECT r. first_name || ' ' || r. last_name As "Rep",

s. first_name || ' ' || s. last_name AS "Supervisor"

FROM sales_representatives r JOIN sales_representatives s

ON (r. supervisor_id = s. id)

```
1    SELECT r.first_name || ' ' || r.last_name AS "Rep" , s.first_name || ' ' || s.last_name AS "Supervisor"
2    FROM sales_representatives r JOIN sales_representatives s
3    ON (r.supervisor_id=s.id);
4
```

Results Explain Describe Saved SQL History

Rep	Supervisor
Charles Raymond	Charles Raymond
Victoria Wright	Charles Raymond
Barry Speed	Charles Raymond

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Part·2

(1) SELECT *
FROM teams t LEFT OUTER JOIN customers c
ON (t.id = c.tem_id);

```
1  SELECT *
2  FROM teams t RIGHT OUTER JOIN customers c
3  ON (t.id=c.tem_id);
4
```

Results   Explain   Describe   Saved SQL   History

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
-	-	-	-	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	-	-	lc4587
t001	Rockets	25	10	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
-	-	-	-	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015
t002	Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-
-	-	-	-	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341
t003	Rovers	8	-	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-

Part·3

(1) SELECT *
FROM customers CROSS JOIN sales_representatives ;

```
1  SELECT *
2  FROM customers
3  CROSS JOIN sales_representatives;
```

Results   Explain   Describe   Saved SQL   History

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER	ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID
c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	-	-	lc4587	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-	sr01	chray@obl.com	Charles	Raymond	01345787	10	sr01
c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	-	-	lc4587	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-	sr02	vwright@obl.com	Victoria	Wright	01345782	5	sr01