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Section : 06

SQL4 - DML3 Part 1

Part 1

1. SELECT*

FROM sales_representatives NATURAL JOIN sales_rep_addresses ;

```
1 SELECT*
2 FROM sales_representatives NATURAL JOIN sales_rep_addresses;
```

Results Explain Describe Saved SQL History

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211
sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01	87 Blossom Hill	Uptown	Detroit	DT52314
sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Junction Row	Skinflats	Detroit	DT52564

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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 ;

```
1 SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
2 FROM sales_representatives NATURAL JOIN sales_rep_addresses;
3
4
```

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

3 rows returned in 0.01 seconds [Download](#)

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) ;

```
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							
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

3 rows returned in 0.03 seconds [Download](#)

2. SELECT*

FROM items JOIN price_history
USING (item_number) ;

```
1 SELECT*
2 FROM items JOIN price_history
3 USING (item_number);
4
5
```

Results											
ITEM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	SIZE	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
im01101044	gloves	catcher mitt	clothing	brown	m	il010230124	06/17/2017	06/17/2016	4.99	-	-
im01101045	under shirt	top worn under the game top	clothing	white	s	il010230125	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	il010230125	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	il010230125	01/26/2017	01/26/2017	15.99	-	-
im01101046	socks	team socks with emblem	clothing	range	l	il010230126	02/12/2017	02/12/2017	7.99	-	-
im01101047	game top	team shirt with emblem	clothing	range	m	il010230127	04/25/2017	04/25/2017	24.99	-	-
im01101048	premium bat	high quality baseball bat	equipment	-	-	il010230128	05/31/2017	05/31/2017	149	11/09/2023	11/09/2023
im01101048	premium bat	high quality baseball bat	equipment	-	-	il010230128	11/09/2023	11/09/2023	99.99	-	-

8 rows returned in 0.00 seconds [Download](#)

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.sre_id = s.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	unknownn@here.com	sr01	Charles	Raymond	chray@obl.com
c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com

3 rows returned in 0.01 seconds [Download](#)

Part 4

1. SELECT c.ctr_number, c.first_name || ' ' || c.last_name AS "Customer Name", c.phone_number, c.email AS "Customer Email", s.id, s.first_name || ' ' || s.last_name AS "Sales Representatives Name", s.email AS "Sales Representatives Email", t.name AS "Team Name"
FROM customers c JOIN sales_representatives s
ON (c.sre_id = s.id)
JOIN teams t
ON (c.tem_id = t.id);

```
1 SELECT c.ctr_number, c.first_name || ' ' || c.last_name AS "Customer Name", c.phone_number, c.email AS "Customer Email", s.id,
2 s.first_name || ' ' || s.last_name AS "Sales Representatives Name", s.email AS "Sales Representatives 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	Customer Name	PHONE_NUMBER	Customer Email	ID	Sales Representatives Name	Sales Representatives 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	

3 rows returned in 0.01 seconds [Download](#)

Part 5

1. SELECT c.ctr_number, c.first_name || ' ' || c.last_name AS "Customer Name", c.phone_number,
c.email AS "Customer Email", s.id, s.first_name || ' ' || s.last_name AS "Sales
Representatives Name", s.email AS "Sales Representatives Email",
t.name AS "Team Name"
FROM customers c JOIN sales_representatives s
ON (c.sre_id = s.id)
JOIN teams t
ON (c.tem_id = t.id)
AND (c.ctr_number = 'c00001');

```
1 SELECT c.ctr_number, c.first_name || ' ' || c.last_name AS "Customer Name", c.phone_number, c.email AS "Customer Email", s.id,  
2 s.first_name || ' ' || s.last_name AS "Sales Representatives Name", s.email AS "Sales Representatives Name", 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 AND (c.ctr_number = 'c00001');
```

Results	Explain	Describe	Saved SQL	History			
CTR_NUMBER	Customer Name	PHONE_NUMBER	Customer Email	ID	Sales Representatives Name	Sales Representatives Name	Team Name
c00001	Robert Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles Raymond	chray@obl.com	Rockets

1 rows returned in 0.01 seconds [Download](#)

Part 6

1. SELECT 'The cost of the ' || i.name || ' on this day was ' ||
p.price AS "Item Price"
FROM items i JOIN price_history p
ON (i.item_number = p.item_number)
WHERE i.item_number = 'im0101045' AND (TO_DATE('12-DEC-2016',
'DD-MM-YYYY') BETWEEN p.start_date AND p.end_date);

```
1 SELECT 'The cost of the ' || i.name || ' on this day was ' || p.price AS "Items Price"
2 FROM items i JOIN price_history p
3 ON (i.item_number = p.item_number)
4 WHERE i.item_number = 'im0101045' AND (TO_DATE('12-DEC-2016', 'DD-MM-YYYY') BETWEEN p.start_date AND p.end_date);
5
6
```

Results	Explain	Describe	Saved SQL	History
<p style="text-align: center;">Items Price</p>				
The cost of the under shirt on this day was 14.99				
1 rows returned in 0.01 seconds Download				

SQL4-DML3 Part 2

Part 1

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
5 |
```

Results Explain Describe Saved SQL History

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

3 rows returned in 0.00 seconds [Download](#)

Part 2

1. SELECT*

FROM teams RIGHT OUTER JOIN customers
ON (teams.id = customers.team_id);

1 SELECT*
2 FROM teams RIGHT OUTER JOIN customers
3 ON (teams.id = customers.team_id);
4
5

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@hotmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
-	-	-	-	c00012	jones@freemail.com	Jennifer	Jones	0150524598	0	-	-	lc1015
t002	Celtics	42	20	c0101	unknown@here.com	John	Doe	03216547808	9875	sr01	t002	-
-	-	-	-	c00103	Murcia@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341
t003	Rovers	8	-	c01986	margalit@delphiview.com	Maria	Galant	01442736589	125.65	sr05	t003	-

6 rows returned in 0.00 seconds Download

Part 3

1. SELECT*

FROM customers
CROSS JOIN sales_representatives;

SELECT* FROM customers 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@hosttech.com	Brian	Rogers	01654564898	50	-	-	lc4587	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c00001	bob.thomberry@heatmail.com	Robert	Thomberry	01234567898	150	sr01	t001	-	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c00012	jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c01011	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c01033	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr05	t003	-	sr01	chray@obl.com	Charles	Raymond	014598761	10	sr01	
c02001	brianrog@hosttech.com	Brian	Rogers	01654564898	50	-	-	lc4587	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c00001	bob.thomberry@heatmail.com	Robert	Thomberry	01234567898	150	sr01	t001	-	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c00012	jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c01011	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c01033	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-	sr02	vwright@obl.com	Victoria	Wright	014598762	5	sr01	
c02001	brianrog@hosttech.com	Brian	Rogers	01654564898	50	-	-	lc4587	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	
c00001	bob.thomberry@heatmail.com	Robert	Thomberry	01234567898	150	sr01	t001	-	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	
c00012	jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	
c01011	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	
c01033	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-	sr03	bspeed@obl.com	Barry	Speed	014598763	5	sr01	

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