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Section: Section - 03

## SQL 4 / DML 3

### Exercise 1

#### Part 1

1. `SELECT *`

`FROM Sales_represantatives NATURAL JOIN Sales_rep_addresses;`

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
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. `SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number`  
`FROM Sales_represantatives NATURAL JOIN Sales_rep_addresses;`

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	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

#### Part 2

1. `SELECT id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number`  
`FROM Sales_represantatives JOIN Sales_rep_addresses`  
`USING (ID);`

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	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. `SELECT *`  
`FROM items JOIN price_history`  
`USING (itm_number);`

ITEM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	SIZE	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
1 im01101044	gloves	catcher mitt	clothing	brown	m	11010230124	17/06/2017	17/06/2016	4.99 (null)	(null)	
2 im01101045	under shirt top	worn under the game top	clothing	white	s	11010230125	25/11/2016	25/11/2016	14.99	25/01/2017	25/01/2017
3 im01101045	under shirt top	worn under the game top	clothing	white	s	11010230125	25/01/2017	25/01/2017	8.99	25/01/2017	25/01/2017
4 im01101045	under shirt top	worn under the game top	clothing	white	s	11010230125	26/01/2017	26/01/2017	15.99	(null)	(null)
5 im01101046	socks	team socks with emblem	clothing	range	l	11010230126	12/02/2017	12/02/2017	7.99	(null)	(null)
6 im01101047	game top	team shirt with emblem	clothing	range	m	11010230127	25/04/2017	25/04/2017	24.99	(null)	(null)
7 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	11010230128	31/05/2017	31/05/2017	149.07	11/2023	07/11/2023
8 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	11010230128	07/11/2023	07/11/2023	99.99	(null)	(null)

### Part 3

```
SELECT c.ctr_number "CueNum", c.first_name "First Name", c.last_name "Last Name", c.phone_number "Phone",
       c.email "Email"
      , s.id "RepID", s.first_name "Rep First Name", s.last_name "Rep Last Name", s.email "Rep Email"
  FROM customers c  JOIN sales_representatives s
 WHERE c.sre_id = s.id;
```

CusNum	First Name	Last Name	Phone	Email	RepID	REP First Name	REP Last Name	REP Email
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com
2 c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com
3 c01986	Maria	Galant	01442736589	margal187@delphiview.com	sr03	Barry	Speed	bspeed@obl.com

### Part 4

```
SELECT c.ctr_number "CueNum", c.first_name "First Name", c.last_name "Last Name", c.phone_number "Phone",
       c.email "Email"
      , s.id "RepID", s.first_name "Rep First Name", s.last_name "Rep Last Name", s.email "Rep Email"
      , t.name "Team Name"
  FROM customers c  JOIN sales_representatives s
 WHERE c.sre_id = s.id
   JOIN teams t
 WHERE t.id = c.tem_id;
```

CusNum	First Name	Last Name	Phone	Email	RepID	REP First Name	REP Last Name	REP Email	Team Name
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
2 c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
3 c01986	Maria	Galant	01442736589	margal187@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

### Part 5

```
SELECT c.ctr_number "CueNum", c.first_name "First Name", c.last_name "Last Name", c.phone_number "Phone",
       c.email "Email"
      , s.id "RepID", s.first_name "Rep First Name", s.last_name "Rep Last Name", s.email "Rep Email"
      , t.name "Team Name"
  FROM customers c  JOIN sales_representatives s
 WHERE c.sre_id = s.id
   JOIN teams t
 WHERE t.id = c.tem_id;
  AND c.ctr_number = 'c00001';
```

CusNum	First Name	Last Name	Phone	Email	RepID	REP First Name	REP Last Name	REP Email	Team Name
1c00001	Robert	Thornberry	01234567898	bob.thornberry@hotmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets

## Part 6

```
SELECT 'The cost of the ' || i.name || ' on this day was ' || p.price
FROM items i JOIN price_history p
ON i.item_number = p.item_number
JOIN inventory_list l
ON i.ilt_id = l.id
WHERE i.item_number = 'im01101045'
AND TO_DATE ('2016-12-12', 'DD-MM-YYYY') BETWEEN p.start_date AND p.end_date;
```

The cost of the under shirton this day was 14.99