SQL 4 - DML 3

Hand-written

SQL-A DML 3

Part 1

Question 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

Question 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 (item_number)

Question 3

1. SELECT
   c.ctr_number,
   c.first_name AS customer_first_name,
   c.last_name AS customer_last_name,
   c.phone_number AS customer_phone_number,
   c.email AS customer_email,
   sr.id,
   sr.first_name AS sales_rep_first_name,
   sr.last_name AS sales_rep_last_name,
   sr.email AS sales_rep_email

   FROM customers c JOIN sales_representatives sr
   ON c.sre_id = sr.id

Question 4

1. SELECT
   c.ctr_number AS customer_number,
   c.first_name AS customer_first_name,
   c.last_name AS customer_last_name,
   c.phone_number AS customer_phone_number,
   c.email AS customer_email,
   sr.id AS sales_rep_id,
   sr.first_name AS sales_rep_first_name,
   sr.last_name AS sales_rep_last_name,
   sr.email AS sales_rep_email,
   t.name

   FROM
   customers c JOIN sales_representatives sr
   ON c.sre_id = sr.id
   JOIN teams t
   ON c.item_id = t.id

Question 5

```
1. SELECT
    c.ctr-number,
    c.first-name,
    c.last-name,
    c.phone-number,
    c.email,
    sr.id,
    sr.first-name,
    sr.last-name,
    sr.email
    t.name
  FROM customers c JOIN sales-representatives sr
  ON c.sre-id = sr.id
  JOIN teams t
  ON c.tem-id = t.id
  WHERE c.ctr-number = 'co2001'
```

Question 6

```
1. Select 'The cost of the ' || i.name || 'on this day was' || p.price AS " "
    FROM items i JOIN price-history p
    ON i.tm_number = p.tm.number
    WHERE i.tm-number = 'imo1101045' AND p.start_date = '12-Dec-2016'
```

Part 2

Question 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.supervisor_id
```

Question 2

```
1. SELECT *
   FROM teams t LEFT OUTER JOIN Customers c
   ON t.id = c.team.id
```

Question 3

```
1. SELECT *
   FROM Customers
   Cross JOIN sales_representatives
```

OUTPUT

Part 1

Question 1

Question 2

SALES_REPRESENTATIVES

```sql
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)
```

Query Result | All Rows Fetched: 3 in 0.003 seconds

	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@ob1.com	0134598761
2	sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@ob1.com	0134598762
3	sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@ob1.com	0134598763

PRICE_HISTORY

```sql
SELECT * FROM items
JOIN price_history
USING (itm_number)
```

Query Result | All Rows Fetched: 8 in 0.009 seconds

	ITM_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	i1010230124	17/06/2017	17/06/2016	4.99	(null)	(null)
2	im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125	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	i1010230125	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	i1010230125	26/01/2017	26/01/2017	15.99	(null)	(null)
5	im01101046	socks	team socks with emblem	clothing	range	1	i1010230126	12/02/2017	12/02/2017	7.99	(null)	(null)
6	im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127	25/04/2017	25/04/2017	24.99	(null)	(null)
7	im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128	31/05/2017	31/05/2017	149	08/11/2023	08/11/2023
8	im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128	08/11/2023	08/11/2023	99.99	(null)	(null)

Question 3


```
        sr.id,
        sr.first_name AS sales_rep_first_name,
        sr.last_name AS sales_rep_last_name,
        sr.email AS sales_rep_email
FROM
        customers c
JOIN
        sales_representatives sr
ON
        c.sre_id = sr.id;
```

Query Result x | All Rows Fetched: 3 in 0.004 seconds

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01 Charles	Raymond	chray@ob1.com
2 c00101	John	Doe	03216547808	unknown@here.com	sr01 Charles	Raymond	chray@ob1.com
3 c01986	Maria	Galant	01442736589	marga187@delphiview.com	sr03 Barry	Speed	bspeed@ob1.com

Question 4

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL	NAME
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01 Charles	Raymond	chray@ob1.com	Rockets
2 c00101	John	Doe	03216547808	unknown@here.com	sr01 Charles	Raymond	chray@ob1.com	Celtics
3 c01986	Maria	Galant	01442736589	marga187@delphiview.com	sr03 Barry	Speed	bspeed@ob1.com	Rovers

Question 5

Query Result x | All Rows Fetched: 1 in 0.005 seconds

CTR_NUMBER	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUSTOMER_PHONE_NUMBER	CUSTOMER_EMAIL	ID	SALES_REP_FIRST_NAME	SALES_REP_LAST_NAME	SALES_REP_EMAIL	NAME
1 c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01 Charles	Raymond	chray@ob1.com	Rockets

Part 2

Question 1

	REP	SUPERVISOR
1	Charles Raymond	Charles Raymond
2	Victoria Wright	Charles Raymond
3	Barry Speed	Charles Raymond
4	Charles Raymond	Victoria Wright
5	Victoria Wright	Victoria Wright
6	Barry Speed	Victoria Wright
7	Charles Raymond	Barry Speed
8	Victoria Wright	Barry Speed
9	Barry Speed	Barry Speed

Question 2

	ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1	t001	Rockets	25	10	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2	t002	Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
3	t003	Rovers	8	(null)	c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
4	t004	Jets	10	5	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)

Question 3

	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER	ID	EMAIL_1	FIRST_NAME_1	LAST_N
1	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr01	chray@ob1.com	Charles	Raymond
2	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr01	chray@ob1.com	Charles	Raymond
3	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr01	chray@ob1.com	Charles	Raymond
4	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr01	chray@ob1.com	Charles	Raymond
5	c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr01	chray@ob1.com	Charles	Raymond
6	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr01	chray@ob1.com	Charles	Raymond
7	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr02	vwright@ob1.com	Victoria	Wright
8	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr02	vwright@ob1.com	Victoria	Wright
9	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr02	vwright@ob1.com	Victoria	Wright
10	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr02	vwright@ob1.com	Victoria	Wright
11	c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr02	vwright@ob1.com	Victoria	Wright
12	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr02	vwright@ob1.com	Victoria	Wright
13	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)	sr03	bspeed@ob1.com	Barry	Speed
14	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	1c1015	sr03	bspeed@ob1.com	Barry	Speed
15	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)	sr03	bspeed@ob1.com	Barry	Speed
16	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	1c2341	sr03	bspeed@ob1.com	Barry	Speed
17	c01986	marga187@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)	sr03	bspeed@ob1.com	Barry	Speed
18	c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	1c4587	sr03	bspeed@ob1.com	Barry	Speed