PART 1

1. `SELECT*FROM sales_representatives NATURAL JOIN sales_rep_addresses`

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBE	COMMISSION_RATE
sr01	chray@obl.com	Charles	Raymond	0134598761	10
sr02	vwright@obl.com	Victoria	Wright	0134598762	5
sr03	bspeed@obl.com	Barry	Speed	0134598763	5

SUPE	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_COD
sr01	12 Cherry Lane	Denton	Detroit	DT48211
sr01	87 Blossom Hill	Uptown	Detroit	DT52314
sr01	12 Junction Row	Skinflats	Detroit	DT52564

2. `SELECT id, email, first_name, last_name, phone_number, address_line_1, address_line_2, city`

`FROM sales_representatives NATURAL JOIN sales_rep_addresses`

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBE	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY
sr01	chray@obl.com	Charles	Raymond	0134598761	12 Cherry Lane	Denton	Detroit
sr02	vwright@obl.com	Victoria	Wright	0134598762	87 Blossom Hill	Uptown	Detroit
sr03	bspeed@obl.com	Barry	Speed	0134598763	12 Junction Row	Skinflats	Detroit

1. `SELECT email, first_name, last_name, phone_number, address_line_1, address_line_2, city, id`

`FROM sales_representatives JOIN sales_rep_addresses`
`using (id)`

EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBE	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ID
chray@obl.com	Charles	Raymond	0134598761	12 Cherry Lane	Denton	Detroit	sr01
vwright@obl.com	Victoria	Wright	0134598762	87 Blossom Hill	Uptown	Detroit	sr02
bspeed@obl.com	Barry	Speed	0134598763	12 Junction Row	Skinflats	Detroit	sr03

2. `SELECT*FROM items JOIN price_history`

`USING (itm_number)`

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	S	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
im01101044	gloves	catcher mitt	clothing	brown	m	11010230124	17/06/2017	17/06/2016	4.99		
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
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
im01101045	under shirt	top worn under the game top	clothing	white	s	11010230125	26/01/2017	26/01/2017	15.99		
im01101046	socks	team socks with emblem	clothing	range	1	11010230126	12/02/2017	12/02/2017	7.99		
im01101047	game top	team shirt with emblem	clothing	range	m	11010230127	25/04/2017	25/04/2017	24.99		
im01101048	premium bat	high quaity basball bat	equipment			11010230128	31/05/2017	31/05/2017	149	07/11/2023	07/11/2023
im01101048	premium bat	high quaity basball bat	equipment			11010230128	07/11/2023	07/11/2023	99.99		

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)`

```
CTR_NU FIRST_NAME          LAST_NAME                   PHONE_NUMBE EMAIL                                             FIRST_NAME           LAST_NAME                    EMAIL
------ ------------------- --------------------------- ----------- ------------------------------------------------- -------------------- ---------------------------- -----------------------------
c00001 Robert              Thornberry                  01234567898 bob.thornberry@heatmail.com                       Charles              Raymond                      chray@obl.com
c00101 John                Doe                         03216547808 unknown@here.com                                  Charles              Raymond                      chray@obl.com
c01986 Maria               Galant                      01442736589 marga187@delphiview.com                           Barry                Speed                        bspeed@obl.com
```

1. `SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email, s.first_name, s.last_name, s.email,`

`        t.name`
`FROM customers c JOIN sales_representatives s`
`ON (c.sre_id = s.id)`
`JOIN teams t`
`ON (t.id = c.tem_id)`

```
CTR_NU FIRST_NAME          LAST_NAME                   PHONE_NUMBE EMAIL                                             FIRST_NAME           LAST_NAME
------ ------------------- --------------------------- ----------- ------------------------------------------------- -------------------- ----------------------------
c00001 Robert              Thornberry                  01234567898 bob.thornberry@heatmail.com                       Charles              Raymond
c00101 John                Doe                         03216547808 unknown@here.com                                  Charles              Raymond
c01986 Maria               Galant                      01442736589 marga187@delphiview.com                           Barry                Speed
```

```
EMAIL                                             NAME
------------------------------------------------- ---------------------
chray@obl.com                                     Rockets
chray@obl.com                                     Celtics
bspeed@obl.com                                    Rovers
```

1. `SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email, s.first_name, s.last_name, s.email,`

`        t.name`
`FROM customers c JOIN sales_representatives s`
`ON (c.sre_id = s.id)`
`JOIN teams t`
`ON (t.id = c.tem_id)`
`AND ctr_number = 'c00001'`

```
CTR_NU FIRST_NAME          LAST_NAME                   PHONE_NUMBE EMAIL                                             FIRST_NAME           LAST_NAME
------ ------------------- --------------------------- ----------- ------------------------------------------------- -------------------- ----------------------------
c00001 Robert              Thornberry                  01234567898 bob.thornberry@heatmail.com                       Charles              Raymond
```

```
EMAIL                                             NAME
------------------------------------------------- ---------------------
chray@obl.com                                     Rockets
```

1. ```sql
SELECT 'The cost of ' || i.name || ' on this day was ' || p.price AS "Cost Information"
FROM items i JOIN price_history p
ON i.itm_number = 'im01101045'
AND p.start_date = '25-November-2016'
```

```
Cost Information
                              •
---------------------------------------------------------------------------
The cost of under shirt on this day was 14.99
```

1. ```sql
SELECT 'The cost of ' || i.name || ' on this day was ' || p.price AS "Cost Information"
FROM items i JOIN price_history p
ON i.itm_number = 'im01101045'
AND p.start_date = '25-November-2016'
```

PART 2

1. `SELECT` r.first_name Rep, r.last_name Rep, s.first_name Supervisor, s.last_name Supervisor

`FROM` sales_representatives s `JOIN` sales_representatives r
`ON` (r.supervisor_id = s.id)

```
REP                  REP                  SUPERVISOR           SUPERVISOR
-------------------- -------------------- -------------------- --------------------------------
Charles              Raymond              Charles              Raymond
Victoria             Wright               Charles              Raymond
Barry                Speed                Charles              Raymond
```

2. `SELECT` t.name, t.number_of_players, c.ctr_number, c.first_name, c.last_name, c.phone_number, c.email

`FROM` teams t `LEFT OUTER JOIN` customers c
`ON` (t.id = c.tem_id)

```
NAME                 NUMBER_OF_PLAYERS CTR_NU FIRST_NAME           LAST_NAME              PHONE_NUMBE EMAIL
-------------------- ----------------- ------ -------------------- -------------------- ----------- ------------------------------------------
Rockets                             25 c00001 Robert               Thornberry            01234567898 bob.thornberry@heatmail.com
Celtics                             42 c00101 John                 Doe                   03216547808 unknown@here.com
Rovers                               8 c01986 Maria                Galant                01442736589 marga187@delphiview.com
Jets                                10
```

3. `SELECT` c.first_name `AS` "Customer First Name", c.last_name `AS` "Customer Last Name", c.ctr_number, c.phone_number, s.id, s.first_name `AS` "Sales First Name", s.last_name `AS` "Sales Last Name",s.phone_number

`FROM` customers c, sales_representatives s

```
Customer First Name  Customer Last Name   CTR_NU PHONE_NUMBE ID   Sales First Name     Sales Last Name               PHONE_NUMBE
-------------------- -------------------- ------ ----------- ---- -------------------- ----------------------------- -----------
Brian                Rogers               t004   01654564898 sr02 Victoria             Wright                        0134598762
Robert               Thornberry           c00001 01234567898 sr03 Barry                Speed                         0134598763
Jennifer             Jones                c00012 01505214598 sr03 Barry                Speed                         0134598763
John                 Doe                  c00101 03216547808 sr03 Barry                Speed                         0134598763
Andrew               Murcia               c00103 07715246890 sr03 Barry                Speed                         0134598763
Maria                Galant               c01986 01442736589 sr03 Barry                Speed                         0134598763
Brian                Rogers               t004   01654564898 sr03 Barry                Speed                         0134598763
```