

Exercise (1)

Part (1)

1- SELECT * FROM sales_representative
NATURAL JOIN addresses;

2- SELECT id, email, first_name, last_name, address_line_1,
address_line_2, city, phone_number FROM sales_representative
NATURAL JOIN addresses;

Part (2)

1- SELECT id, email, first_name, last_name, address_line_1, address_line_2,
city, phone_number FROM sales_representatives JOIN addresses
USING (location);

2- SELECT * FROM items JOIN price_history
USING (price);

Part (3)

1- SELECT C.ctr_number, C.first_name, C.last_name, C.phone_number,
C.email, || AS "Customer Information", S.id, S.first_name,
S.last_name, S.email || AS "Sales Information"
FROM customers JOIN sales_representatives
ON (C.ctr_number = S.id);

Part (4)

1- SELECT C.ctr_number, C.first_name, C.last_name, C.phone_number,
C.email || AS "Customer Information", S.id, S.first_name, S.last_name,
S.email || AS "Sales Information" FROM customers
JOIN sales_representatives
ON (C.ctr_number = S.id)
JOIN Team t
ON (C.first_name = t.name);

- Part (5)

```
1- SELECT c.ctr_number, c.first_name, c.last_name, c.phone_number,  
       c.email || AS "Customer Information", s.id, s.first_name,  
       s.last_name, s.email || AS "Sales Information"  
FROM customers JOIN sales_representatives  
ON (c.ctr_number = s.id)  
JOIN teams t  
ON (c.first_name = t.name)  
WHERE c.ctr_number = 'C-00001';
```

- Part (6)

```
1- SELECT "The cast of " || t.name || " on this " || d.end_date ||  
       " was " || d.price FROM teams t JOIN price_history d  
WHERE t.item_number = '1m01101045' ;  
AND d.end_date = '12-DEC-2016';
```

Exercise (2)

- Part (1)

```
1- SELECT s.first_name || ' ' || s.last_name AS "Rep"  
       a.first_name || ' ' || a.last_name AS "Supervisor"  
FROM sales_representatives s  
LEFT JOIN sales_representatives m  
ON s.id = a.id;
```

- Part (2)

```
1- SELECT t.name, c.first_name || ' ' || c.last_name AS "Customer  
Full Name", c.phone_number AS "Customer Phone Number"  
FROM teams t  
FULL OUTER JOIN customers  
ON (t.team_id = c.ctr_number);
```


Part (3)

```
1-SELECT c.c+r-number, c.first_name || ' ' || c.last_name  
AS "Customer Name", s.id AS "Sales id", s.first_name || ' ' ||  
s.last_name AS "Sales Name" FROM customers  
CROSS JOIN sales_representatives;
```