

SQL 4 DML 3

P1)

PART 1

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

```
2. SELECT id, name, last_name, address_line_1, address_line_2, city, email,  
phone_number  
FROM sales_representatives  
NATURAL JOIN sales_rep_addresses;
```

PART 2

```
1. SELECT id, name, last_name, address_line_1, address_line_2, city, email,  
phone_number  
FROM sales_representatives JOIN sales_rep_addresses  
USING (id);
```

PART 3

```
1. SELECT c.cust-number "Customer Number", c.first_name "Customer First Name",  
c.last_name "Customer Last Name", c.phone-number "Customer Phone Number",  
sr.id "ID", sr.first_name "Sales Rep First Name", sr.last_name  
"Sales Rep Last Name", sr.email "Sales Rep Email"  
FROM customers c JOIN sales_representatives sr  
ON c.sre_id = sr.id
```

PART 4

```
1. SELECT c.cust-number "Customer Number", c.first_name "Customer First Name",  
c.last_name "Customer Last Name", c.phone-number "Customer Phone Number",  
sr.id "ID", sr.first_name "Sales Rep First Name", sr.last_name  
"Sales Rep Last Name", sr.email "Sales Rep Email", t.name "Team Name"  
FROM customers c JOIN sales_representatives sr  
ON c.sre_id = sr.id  
JOIN teams t  
ON c.team_id = t.id;
```

PART 5

```
1. SELECT c.ctr-number "Customer Number", c.first_name "Customer First Name",  
           c.last_name "Customer Last Name", c.phone-number "Customer Phone Number",  
           sr.id "ID", sr.first_name "Sales Rep First Name", sr.last_name  
           "Sales Rep Last Name", sr.email "Sales Rep Email", t.name "Team Name"  
FROM customers c JOIN sales-representatives sr  
ON c.sre_id = sr.id  
JOIN teams t  
ON c.team_id = t.id  
WHERE c.ctr-number = 'C00001';
```

PART 6

```
1. SELECT || 'The cost of the ' || name || ' on this day was' || price  
FROM items  
NATURAL JOIN price-history  
WHERE itm-number = 'im01101045'  
AND start-date <= DATE '2016-12-12'  
AND (end-date IS NULL OR end-date >= DATE '2016-12-12');
```

P2)

PART 1

```
1. SELECT rep.first_name || ' ' || rep.last_name "Representative",  
           sup.first_name || ' ' || sup.last_name "Supervisor"  
FROM sales-representatives rep  
LEFT JOIN sales-representatives sup  
ON rep.supervisor_id = sup.id;
```

PART 2

```
1. SELECT * FROM teams  
FULL OUTER JOIN customers  
ON id = item_id;
```

PART 3

```
1. SELECT * FROM customers  
CROSS JOIN sales-representatives;
```

