

Lab 4

Part 1

1) 1) SELECT \* FROM sales-representatives

NATURAL JOIN sales-rep-addresses;

2) SELECT s.id, s.first-name, s.last-name, sa.address-line-1,

sa.address-line-2, sa.city, s.email, s.phone-number

FROM sales-representatives s

NATURAL JOIN sales-rep-addresses sa;

2) 1) SELECT s.id, s.first-name, s.last-name, sa.address-line-1,

sa.address-line-2, sa.city, s.email, s.phone-number

FROM sales-representatives s

JOIN sales-rep-addresses sa

USING (id);

2) SELECT \* FROM items

JOIN price-history USING (itm-number);

3) SELECT c.ctr-number "Customer Number",

c.first-name "Customer First Name",

c.last-name "Customer Last Name",

c.phone-number "Customer Phone Number",

c.email "Customer Email", s.id "Sales Rep ID",

s.first-name "Sales Rep First Name",

s.last-name "Sales Rep Last Name",

s.email "Sales Rep Email"

FROM customers c JOIN sales-representatives s

ON (c.sre-id = s.id);

4) SELECT c.ctr\_number "Customer Number",  
c.first\_name "Customer First Name",  
c.last\_name "Customer Last Name",  
c.phone\_number "Customer Phone Number",  
c.email "Customer Email", s.id "Sales Rep ID",  
s.first\_name "Sales Rep First Name",  
s.last\_name "Sales Rep Last Name",  
s.email "Sales Rep Email", t.name "Team Name"  
FROM customers c  
JOIN sales\_representatives s  
ON (c.sre.id = s.id)  
JOIN teams t ON (c.tem.id = t.id)

5) SELECT c.ctr\_number "Customer Number",  
c.first\_name "Customer First Name",  
c.last\_name "Customer Last Name",  
c.phone\_number "Customer Phone Number",  
c.email "Customer Email", s.id "Sales Rep ID",  
s.first\_name "Sales Rep First Name",  
s.last\_name "Sales Rep Last Name",  
s.email "Sales Rep Email", t.name "Team Name"  
FROM customers c JOIN sales\_representative s  
ON (c.sre.id = s.id) JOIN teams t  
ON (c.tem.id = t.id)  
WHERE c.ctr\_number = 'C00001';



6) SELECT 'The cost of the ' || i.name || ' on this day was'  
|| ph.price FROM items i JOIN price-history ph  
ON (i.item-number = ph.item-number)  
WHERE i.item-number = 'im01101045' AND  
ph.start-date = TO\_DATE('2016-12-12', 'YYYY-MM-DD');

### Part 2

1) SELECT r.first-name || ' ' || r.last-name "Rep",  
s.first-name || ' ' || s.last-name "Supervisor"  
FROM sales-representatives r  
JOIN sales-representatives s  
ON (r.supervisor-id = s.id);

2) SELECT \* FROM teams t  
LEFT OUTER JOIN customers c  
ON (t.id = c.team-id);

3) SELECT \* FROM customers c, sales-representatives r;