Q1

postgres=# select e.first\_name , e.last\_name , d.department\_id , d.department\_name from employees e join departments d on e.department\_id = d.department\_id;

first\_name | last\_name | department\_id | department\_name

-------------+-------------+---------------+------------------

Steven | King | 90 | Executive

Neena | Kochhar | 90 | Executive

Lex | De Haan | 90 | Executive

Alexander | Hunold | 60 | IT

Bruce | Ernst | 60 | IT

David | Austin | 60 | IT

Valli | Pataballa | 60 | IT

Diana | Lorentz | 60 | IT

Nancy | Greenberg | 100 | Finance

Daniel | Faviet | 100 | Finance

John | Chen | 100 | Finance

Ismael | Sciarra | 100 | Finance

Jose Manuel | Urman | 100 | Finance

Luis | Popp | 100 | Finance

Den | Raphaely | 30 | Purchasing

Q2

HINT: Perhaps you meant to reference the column "d.department\_name".

postgres=# select e.first\_name, e.last\_name ,d.department\_name, l.city, l.state\_province from employees e join departments d on e.department\_id = d.department\_id join locations l on d.location\_id = l.location\_id ;

first\_name | last\_name | department\_name | city | state\_province

-------------+-------------+------------------+---------------------+----------------

Steven | King | Executive | Seattle | Washington

Neena | Kochhar | Executive | Seattle | Washington

Lex | De Haan | Executive | Seattle | Washington

Alexander | Hunold | IT | Southlake | Texas

Bruce | Ernst | IT | Southlake | Texas

Q4

postgres=# select e.first\_name, e.last\_name, e.department\_id , d.department\_name from employees e join departments d on e.department\_id = d.department\_id and e.department\_id in (80,40) order by e.last\_name;

first\_name | last\_name | department\_id | department\_name

-------------+------------+---------------+-----------------

Ellen | Abel | 80 | Sales

Sundar | Ande | 80 | Sales

Amit | Banda | 80 | Sales

Elizabeth | Bates | 80 | Sales

David | Bernstein | 80 | Sales

Harrison | Bloom | 80 | Sales

Nanette | Cambrault | 80 | Sales

Gerald | Cambrault | 80 | Sales

Louise | Doran | 80 | Sales

Alberto | Errazuriz | 80 | Sales

Q5

postgres=# select e.first\_name, e.last\_name , d.department\_name, l.city, l.state\_province from employees e join departments d on e.department\_id = d.department\_id join locations l on d.location\_id = l.location\_id where e.first\_name like '%z%';

first\_name | last\_name | department\_name | city | state\_province

------------+------------+-----------------+---------------------+----------------

Mozhe | Atkinson | Shipping | South San Francisco | California

Hazel | Philtanker | Shipping | South San Francisco | California

Elizabeth | Bates | Sales | OX9 9ZB | Oxford

(3 rows)

Q6

postgres=# select e.first\_name, e.last\_name ,d.department\_id, d.department\_name from employees e right outer join departments d on e.department\_id = d.department\_id;

first\_name | last\_name | department\_id | department\_name

-------------+-------------+---------------+----------------------

Steven | King | 90 | Executive

Neena | Kochhar | 90 | Executive

Lex | De Haan | 90 | Executive

Alexander | Hunold | 60 | IT

Bruce | Ernst | 60 | IT

David | Austin | 60 | IT

Valli | Pataballa | 60 | IT

Diana | Lorentz | 60 | IT

Q7

postgres=# select e.first\_name, e.last\_name, e.salary from employees e join employees s on e.salary < s.salary and s.employee\_id = 182;

first\_name | last\_name | salary

------------+------------+---------

James | Landry | 2400.00

Steven | Markle | 2200.00

TJ | Olson | 2100.00

Ki | Gee | 2400.00

Hazel | Philtanker | 2200.00

(5 rows)

Q8

postgres=# select e.first\_name as employee\_name, m.first\_name as manager\_name from employees e join employees m on e.manager\_id = m.employee\_id;

employee\_name | manager\_name

---------------+--------------

Neena | Steven

Lex | Steven

Alexander | Lex

Bruce | Alexander

David | Alexander

Valli | Alexander

Diana | Alexander