1 Display the department name, city, street address and postal code for all departments sorted by city and department name.

SELECT department\_name, city, street\_address, postal\_code

FROM departments JOIN locations USING(location\_id)

ORDER BY city, department\_name;

DEPARTMENT\_NAME CITY STREET\_ADDRESS POSTAL\_CODE

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Sales Oxford Magdalen Centre, The Oxford Science Park OX9 9ZB

Accounting Seattle 2004 Charade Rd 98199

Administration Seattle 2004 Charade Rd 98199

Contracting Seattle 2004 Charade Rd 98199

Executive Seattle 2004 Charade Rd 98199

Shipping South San Francisco 2011 Interiors Blvd 99236

IT Southlake 2014 Jabberwocky Rd 26192

Marketing Toronto 147 Spadina Ave M5V 2L7

2 Display full name of the employees using format of Last, First, their  hire date and salary together with their department name and city, but only for departments which names start with an A or S sorted by department name and employee name.

SELECT last\_name || ', ' || first\_name "Full name",

hire\_date, salary, department\_name, city

FROM employees

JOIN departments USING(department\_id)

JOIN locations USING(location\_id)

WHERE department\_name LIKE 'A%'

OR department\_name LIKE 'S%'

ORDER BY department\_name, "Full name"

NAME          HIRE\_DATE   SALARY  DEPARTMENT\_NAME CITY

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Gietz, William    94-06-07 8300 Accounting Seattle

Higgins, Shelley   94-06-07 12000 Accounting Seattle

Whalen, Jennifer   87-09-17 4400 Administration Seattle

Abel, Ellen        96-05-11 11000 Sales Oxford

Taylor, Jonathon   98-03-24 8600 Sales Oxford

Zlotkey, Eleni     00-01-29 10500 Sales Oxford

Davies, Curtis     97-01-29 3100 Shipping South San Francisco

Matos, Randall     98-03-15 2600 Shipping South San Francisco

Mourgos, Kevin     99-11-16 5800 Shipping South San Francisco

Rajs, Trenna       95-10-17 3500 Shipping South San Francisco

Vargas, Peter      98-07-09 2500 Shipping South San Francisco

3 Display the full name of the manager of each department in states/provinces of Ontario, California 3 and Washington along with the department name, city, postal code and province name.   Sort the output by city and then by department name.

SELECT e.first\_name || ' ' || e.last\_name "Name",

       d.department\_name, l.city, l.postal\_code,

l.state\_province

FROM departments d

JOIN employees e

ON (d.manager\_id = e.employee\_id)

JOIN locations l

ON (d.location\_id = l.location\_id)

WHERE l.state\_province IN ('Ontario', 'California', 'Washington')

ORDER BY l.city, d.department\_name;

Name DEPARTMENT\_NAME CITY POSTAL\_CODE STATE\_PROVINCE

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Shelley Higgins Accounting Seattle 98199 Washington

Jennifer Whalen Administration Seattle 98199 Washington

Steven King Executive Seattle 98199 Washington

Kevin Mourgos Shipping South San Francisco 99236 California

Michael Hartstein Marketing Toronto M5V 2L7 Ontario

4 Display employee’s last name and employee number along with their manager’s last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr# respectively.

SELECT e.last\_name "Employee", e.employee\_id "Emp#",

       m.last\_name "Manager", e.manager\_id "Mrg#"

FROM employees e JOIN employees m

ON (e.manager\_id = m.employee\_id);

Employee Emp# Manager Mgr#

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Hunold 103 De Haan 102

Fay 202 Hartstein 201

Gietz 206 Higgins 205

Lorentz 107 Hunold 103

Ernst 104 Hunold 103

Hartstein 201 King 100

Zlotkey 149 King 100

Mourgos 124 King 100

De Haan 102 King 100

Kochhar 101 King 100

Higgins 205 Kochhar 101

Whalen 200 Kochhar 101

Vargas 144 Mourgos 124

Matos 143 Mourgos 124

Davies 142 Mourgos 124

Rajs 141 Mourgos 124

Grant 178 Zlotkey 149

Taylor 176 Zlotkey 149

Abel 174 Zlotkey 149