Abiodun Oke 117180166

L5a-DBS301-Simple Joins

**NOTE 1: This is about simple joins, so no LEFT or RIGHT joins etc. Required.**

**NOTE 2: There is a 5b on joins that also needs to be done**

**NOTE 3: If you are not finishing this in week 5, then you are actually running behind. Please catch up.**

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

ANSWER:

SELECT d.department\_name, l.city, l.street\_address, l.postal\_code

FROM departments d JOIN locations l

USING (location\_id);

 OUTPUT:

DEPARTMENT\_NAME CITY STREET\_ADDRESS POSTAL\_CODE

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IT Southlake 2014 Jabberwocky Rd 26192

Shipping South San Francisco 2011 Interiors Blvd 99236

Administration Seattle 2004 Charade Rd 98199

Executive Seattle 2004 Charade Rd 98199

Accounting Seattle 2004 Charade Rd 98199

Contracting Seattle 2004 Charade Rd 98199

Marketing Toronto 147 Spadina Ave M5V 2L7

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

8 rows selected

1. Display full name of employees as a single field using format of **Last,** **First**, their hire date, salary, department name and city, but only for departments with names starting with an **A** or **S** sorted by department name and employee name.

**ANSWER**:

SELECT e.last\_name||', '||e.first\_name as "Full name",

e.hire\_date, e.salary,

d.department\_name, l.city

FROM employees e

JOIN departments d

ON e.department\_id = d.department\_id

JOIN locations l

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

WHERE d.department\_name LIKE 'A%' OR d.department\_name LIKE 'S%'

ORDER BY 4, 1;

**OUTPUT**:

Full 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

11 rows selected

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

ANSWER:

 SELECT e.last\_name||' '||e.first\_name "Manager", d.department\_name "Department",

l.city, postal\_code "Postal Code", state\_province "Province"

FROM employees e

JOIN departmentS d

USING (department\_id)

JOIN locations l

USING (location\_id)

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

ORDER BY 3, 2;

OUTPUT:

Manager Department CITY Postal Code Province

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Gietz William Accounting Seattle 98199 Washington

Higgins Shelley Accounting Seattle 98199 Washington

Whalen Jennifer Administration Seattle 98199 Washington

De Haan Lex Executive Seattle 98199 Washington

King Steven Executive Seattle 98199 Washington

Kochhar Neena Executive Seattle 98199 Washington

Davies Curtis Shipping South San Francisco 99236 California

Vargas Peter Shipping South San Francisco 99236 California

Matos Randall Shipping South San Francisco 99236 California

Mourgos Kevin Shipping South San Francisco 99236 California

Rajs Trenna Shipping South San Francisco 99236 California

Fay Pat Marketing Toronto M5V 2L7 Ontario

Hartstein Michael Marketing Toronto M5V 2L7 Ontario

1. 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.

**OUTPUT**:

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

m.last\_name "Manager",

m.employee\_id "Mgr#"

FROM employees e

JOIN employees m

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

**OUTPUT**:

Employee Emp# Manager Mgr#

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Kochhar 101 King 100

De Haan 102 King 100

Mourgos 124 King 100

Zlotkey 149 King 100

Hartstein 201 King 100

Whalen 200 Kochhar 101

Higgins 205 Kochhar 101

Hunold 103 De Haan 102

Ernst 104 Hunold 103

Lorentz 107 Hunold 103

Rajs 141 Mourgos 124

Davies 142 Mourgos 124

Matos 143 Mourgos 124

Vargas 144 Mourgos 124

Abel 174 Zlotkey 149

Taylor 176 Zlotkey 149

Grant 178 Zlotkey 149

Fay 202 Hartstein 201

Gietz 206 Higgins 205