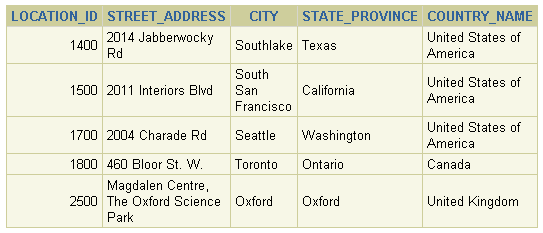
PRACTICE 5

1. Write a query for the HR department to produce the addresses of all the departments. Use the LOCATIONS and COUNTRIES tables. Show the location ID, street address, city, state or province, and country in the output. Use a NATURAL JOIN to produce the results.



**--🡪 select location\_ID, street\_address, city, state\_province,country\_name**

**from locations**

**NATURAL JOIN countries;**

1. The HR department needs a report of all employees. Write a query to display the last name, department number, and department name for all employees.

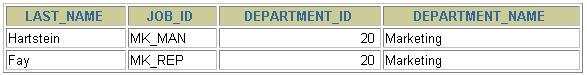
**-🡪 select last\_name,department\_id,department\_name**

**from employees**

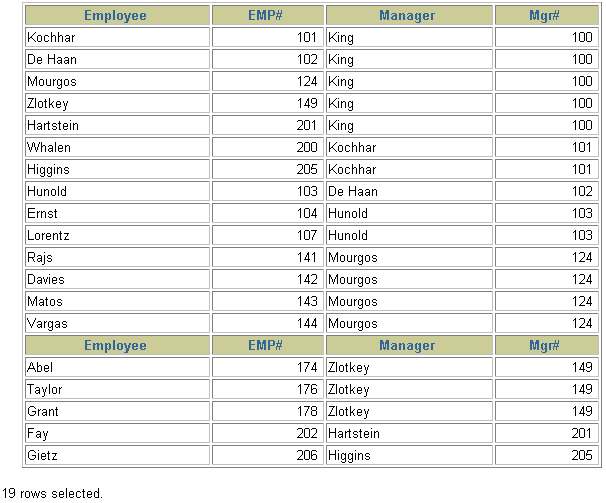
**join departments**

**using(department\_id);**

1. **The HR department needs a report of employees in Toronto. Display the last name, job, department number, and department name for all employees who work in Toronto.**



-🡪 **SELECT e.last\_name, e.job\_id, e.department\_id,  
d.department\_name  
FROM employees e JOIN departments d  
ON (e.department\_id = d.department\_id)  
JOIN locations l  
ON (d.location\_id = l.location\_id)  
WHERE LOWER(l.city) = ’toronto’**;

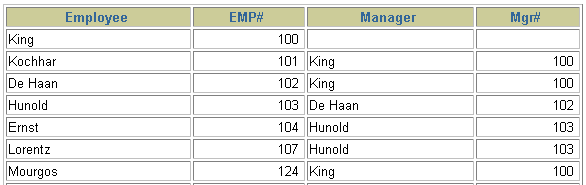
1. **Create a report to display employees’ last name and employee number along with their manager’s last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively.** 

**Practice 5 (continued)**

**---🡪 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);**

1. Modify lab\_05 to display all employees including King, who has no manager. Order the results by the employee number. 

---🡪 **SELECT w.last\_name "Employee", w.employee\_id "EMP#", m.last\_name "Manager", m.employee\_id "Mgr#"**

**FROM employees w**

**LEFT OUTER JOIN employees m**

**ON (w.manager\_id = m.employee\_id);**

1. **Create a report for the HR department that displays employee last names, department numbers, and all the employees who work in the same department as a given employee. Give each column an appropriate label.**

---🡪 **SELECT e.department\_id department, e.last\_name employee,**

**c.last\_name colleague**

**FROM employees e JOIN employees c**

**ON (e.department\_id = c.department\_id)**

**WHERE e.employee\_id <> c.employee\_id**

**ORDER BY e.department\_id, e.last\_name, c.last\_name;**