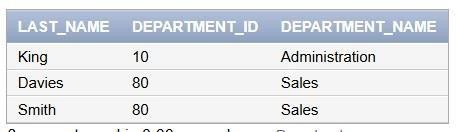
**WORKING WITH MULTIPLE TABLES**

1. Write a query to display the last name, department number, and department name for all Employees.

SELECT e.last\_name, e.department\_id, d.department\_name FROM employees e

JOIN departments d

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



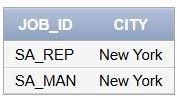
1. Create a unique listing of all jobs that are in department 80. Include the location of the department in the output.

SELECT DISTINCT e.job\_id, 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 e.department\_id = 80;



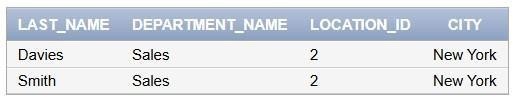
1. Write a query to display the employee last name, department name, location ID, and city of all employees who earn a commission

SELECT e.last\_name, d.department\_name, d.location\_id, 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 e.commission\_pct IS NOT NULL;

2. Display the employee last name and department name for all employees who have an a(lowercase) in their last names. P

SELECT e.last\_name, d.department\_name FROM employees e

JOIN departments d

ON e.department\_id = d.department\_id WHERE LOWER(e.last\_name) LIKE '%a%';



1. Write a query to 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 l.city = 'Toronto';

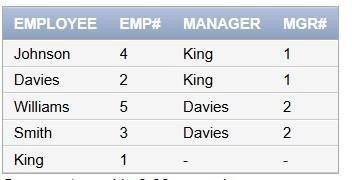


1. Display the employee last name and employee number along with their manager‘s last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, Respectively

SELECT e.last\_name AS Employee, e.employee\_id AS Emp#, m.last\_name AS Manager, m.employee\_id AS Mgr#

FROM employees e LEFT JOIN employees m

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



1. Modify lab4\_6.sql to display all employees including King, who has no manager. Order the results by the employee number.

SELECT e.last\_name, e.employee\_id, m.last\_name AS Manager FROM employees e

LEFT JOIN employees m

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



1. Create a query 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.last\_name AS Employee, e.department\_id AS Dept# FROM employees e

JOIN employees emp

ON e.department\_id = emp.department\_id

WHERE emp.employee\_id = 2; -- Replace with a specific employee ID



1. Show the structure of the JOB\_GRADES table. Create a query that displays the name, job, department name, salary, and grade for all employees

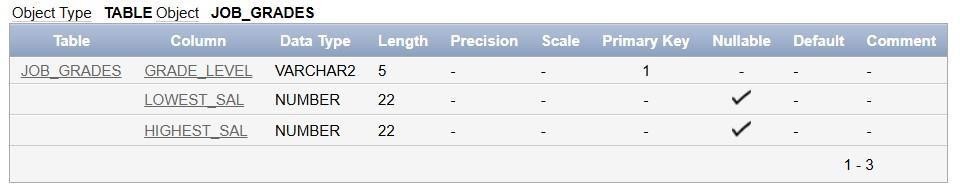
DESCRIBE job\_grades;

SELECT e.last\_name, e.job\_id, d.department\_name, e.salary, jg.grade\_level FROM employees e

JOIN departments d

ON e.department\_id = d.department\_id JOIN job\_grades jg

ON e.salary BETWEEN jg.lowest\_sal AND jg.highest\_sal;





1. Create a query to display the name and hire date of any employee hired after employee Davies.

SELECT e.last\_name, e.hire\_date FROM employees e

WHERE e.hire\_date > (SELECT hire\_date FROM employees WHERE last\_name = 'Davies');



1. Display the names and hire dates for all employees who were hired before their managers, along with their manager‘s names and hire dates. Label the columns Employee, Emp Hired, Manager, and Mgr Hired, respectively.

SELECT e.last\_name AS Employee, e.hire\_date AS "Emp Hired", m.last\_name AS Manager, m.hire\_date AS "Mgr Hired"

FROM employees e JOIN employees m

ON e.manager\_id = m.employee\_id WHERE e.hire\_date < m.hire\_date;

