WORKING WITH MULTIPLE TABLES

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

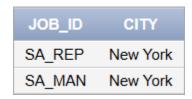
SELECT e.last_name, e.department_id, d.department_nameFROM employees e
JOIN departments d

ON e.department_id = d.department_id;

LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
King	10	Administration
Davies	80	Sales
Smith	80	Sales

2. 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.cityFROM employees e
JOIN departments d
ON e.department_id = d.department_idJOIN locations l
ON d.location_id = l.location_idWHERE
e.department_id = 80;



3. 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.cityFROM employees e

JOIN departments d

ON e.department_id = d.department_idJOIN

locations 1

ON d.location_id = l.location_id

WHERE e.commission_pct IS NOT NULL;

LAST_NAME	DEPARTMENT_NAME	LOCATION_ID	CITY
Davies	Sales	2	New York
Smith	Sales	2	New York

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_nameFROM employees e
JOIN departments d
ON e.department_id = d.department_id WHERE
LOWER(e.last_name) LIKE '%a%';



l.city = 'Toronto';

5. 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_nameFROM employees e

JOIN departments d

ON e.department_id = d.department_idJOIN locations l

ON d.location_id = l.location_idWHERE

King AD_PRES 10 Administration	LAST_NAME	JOB_ID	DEPARTMENT_ID	DEPARTMENT_NAME
	King	AD_PRES	10	Administration

6. 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;

EMPLOYEE	EMP#	MANAGER	MGR#
Johnson	4	King	1
Davies	2	King	1
Williams	5	Davies	2
Smith	3	Davies	2
King	1	-	-

7. 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 ManagerFROM employees e

LEFT JOIN employees m

ON e.manager_id = m.employee_idORDER

BY e.employee_id;

LAST_NAME	EMPLOYEE_ID	MANAGER
King	1	-
Davies	2	King
Smith	3	Davies
Johnson	4	King
Williams	5	Davies

8. Create a query that displays employee last names, department numbers, and all theemployees 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

JOHA employees emp

ON e.department_id = emp.department_id

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

EMPLOYEE	DEPT#
Davies	80
Smith	80
2	J : 0 00 -

9. 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_levelFROM employees e

JOIN departments d

 $ON\ e.department_id = d.department_idJOIN$

job_grades jg

ON e.salary BETWEEN jg.lowest_sal AND jg.highest_sal;

Object Type TAB	LE Object JOB_G	RADES							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
JOB_GRADES	GRADE_LEVEL	VARCHAR2	5	-	-	1	-	-	-
	LOWEST_SAL	NUMBER	22	-	-	-	~	-	-
	HIGHEST_SAL	NUMBER	22	-	-	-	~	-	-
								1	- 3

no data found

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

SELECT e.last_name, e.hire_dateFROM employees e

WHERE e.hire_date > (SELECT hire_date FROM employees WHERE last_name = 'Davies');

LAST_NAME	HIRE_DATE
Smith	04/23/2006
Williams	12/01/2007

11. 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.

no data found