EXPNO:08

WORKING WITH MULTIPLE TABLES

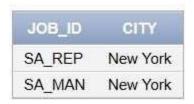
1. Write a query to display the last name, department number, and department name for all Employees.

SELECT e.last_name, e.department_id, d.department_name FROM employees e JOIN departments d ON e.department_id = d.department_id;

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.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;



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.city FROM employees e JOIN departments d ON e.department_id = d.department_id JOIN locations I 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

4. 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%';



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_name FROM employees e JOIN departments d ON e.department_id = d.department_id JOIN locations I ON d.location id = I.location id WHERE I.city = 'Toronto';

LAST_NAME	E JOB_ID	DEPARTMENT_ID	DEPARTMENT_NAME
King	AD_PRES	10	Administration
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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	S. S	

7.Modify lab4_6.sql to display all employees including King, who has no manager. Order the results by the employee number.

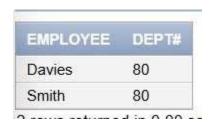
SELECT e.last_name, e.employee_id, m.last_name AS Manager FROM employees e LEFT JOIN employees m ON e.manager_id = m.employee_id ORDER BY e.employee_id;



8.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



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_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;

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

Object Type TABLE Object JOB_GRADES Length Table Precision Scale Primary Key Column Data Type VARCHAR2 5 JOB GRADES GRADE LEVEL LOWEST SAL NUMBER 22 22 HIGHEST SAL NUMBER

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.

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;

no data found