EXPNO:08

DATE:23-10-2024

## **WORKING WITH MULTIPLE TABLES**

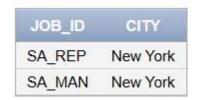
1. Write a query to display the last name, department number, and department name for all Employees.

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 I
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 = I.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\_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	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	-	-

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;

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 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

EMPLOYEE	DEPT#
Davies	80
Smith	80

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;

## Object Type TABLE Object JOB\_GRADES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	N
JOB_GRADES	GRADE_LEVEL	VARCHAR2	5	-	-	1	
	LOWEST_SAL	NUMBER	22	-	-	-	
	HIGHEST_SAL	NUMBER	22	-	-	-	

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');

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