

This query retrieves all rows in the EMPLOYEES table, even if there is no match in the DEPARTMENTS table. It also retrieves all rows in the DEPARTMENTS table, even if there is no match in the EMPLOYEES table.

Find the Solution for the following:

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

select e.last_name, e.department_id, e.department_name, from employee JOIN
department = d. ON e.department_id = d.department_id;

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, e.location_id, e.city from employee
e JOIN department = d. ON e.department_id = d.department_id JOIN location = l. ON
e.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 employee e
JOIN department = d. ON (e.department_id = d.department_id) JOIN location = l. ON
(e.location_id = l.location_id) where e.commission_pct is NOT NULL;

8. 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 employee e JOIN department = d. ON
(e.department_id = d.department_id) where 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 employee e JOIN department = d. ON (e.department_id = d.department_id)
JOIN location = l. ON (e.location_id = l.location_id) where l.city =
'Toronto';

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 w.last_name As "Employee", w.employee_id As "Emp #",
m.last_name As "Manager", m.employee_id As "Mgr #" from
employee w JOIN employee m ON (w.manager_id = m.employee_id);

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

```
select w.last_name AS "Employee", w.employee_id AS "Emp #", m.last_name  
AS "Manager", m.employee_id AS "Mgr #", w FROM employees w left outer  
join employees m ON (w.manager_id = m.employee_id) order by  
w.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 s.last_name AS "Employee", a.department_id AS "Dept #", l.last_name  
AS "Colleague" from employees a join employees l ON (a.department_id  
= l.department_id) where a.employee_id != l.employee_id order by  
a.department_id, a.last_name;
```

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

use JOB_GRADES;

```
select e.last_name AS "Name", e.job_id AS "Job", d.department_name AS "Department",  
e.salary AS "Salary", j.grade_level AS "Grade" FROM employees e JOIN departments  
d ON (e.department_id = d.department_id) JOIN job_grades j ON (e.salary between j.lowest_sal AND  
j.highest_sal)
```

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

```
select e1.last_name, e1.hire_date from employees e1 join employees  
e2 ON (e1.hire_date > e2.hire_date) where e2.last_name = 'Davies';
```

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 w.last_name AS "Employee", w.hire_date AS "Emp Hired",  
m.last_name AS "Manager", m.hire_date AS "Mgr Hired"  
from employees w join employees m ON (w.manager_id =  
m.employee_id) where w.hire_date < m.hire_date;
```


Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	