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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
employees e join departments d on e.department_id = d.dept-
artment_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, 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.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.dept-
join location l on d.location_id = l.location_id
where e.commissions_pct is not NULL;
```

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 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, e.department_name,
from employees e join departments d on e.department_id = d.department_id
join location l on d.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 e.last_name as Employee
       e.employee_id as Emp#
       m.last_name as Manager
       m.employee_id as Mgr#
from employees e
join employees m on e.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 last_name, employee-id, manager-id  
from employees  
ORDER BY 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 e1.last_name As employee,  
       e1.dept-id as dept#  
       e2.last_name as Colleague from employees e1  
join employees e2 on e1.dept-id = e2.dept-id  
where e1.employee-id != e2.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

Desc job-grades;

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

```
select e.lastname, e.job-id, d.department-name, e.salary,  
       j.grade-level 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;
```

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.hiredate;
```

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