This query was completed in earlier releases as follows:

SELECT e.last\_name, e.department\_id, d.department\_name FROM employees e, departments d WHERE d.department\_id = e.department\_id (+);

## FULL OUTER JOIN Example:

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SELECT e.last\_name, e.department\_id, d.department\_name

FROM employees e

FULL OUTER JOIN departments d

ON (e.department\_id = d.department\_id);

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

DEPARTMENTS table. It alslso 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. lastrane, e. department ed, d. department names from employees e Join department d on e. department ed: d. department ed;

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. jobid, d. location id from employees e Join department d on e. department\_id = d. department\_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 department done. department\_id = d. department\_id

Join department done. department-id = d. department\_id

Jan location lond. location\_id = l. location\_id where e. commenter-pet

18 NOT NULL;

- 4. Select e. last name, d. department name from employees e JOIN department d on e. department to d. department to where e. last name LIKE '% a %';
  - Display the employee last name and department name for all employees who have an a(lowercase) in their last names. P
  - 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. jobid, e. depastment\_id, d. depastment\_name
from employees e Join depastments d on e. depastment-id=d. depastmentid
Join locations. l on d. location-id = l. location-id when 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 HANAGER, m. employee-id As Hgr from employees e LEFT JOIN Employees
m on e-manager-id = m. employee-id;

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 AS Employee, e. employee-rd AS Emp, m. last-name as Hanager, m. employee-rd as mgs from employees e Left 30% employees m on e-manager-id = m. employer-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 et last name as Employee, et department-id as dept-id, ez. last name as colleegue from employeer er Join employeer ez en e department-id = ez department-id enployee-id!=ez. employee-id en der by el. last name;

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 gob-grades;

Solid e. last-nane, J. Job-title, d. depatret-nane, e. Jalony, g. gradi-land from employees e John jots j on e. Jobid = j. job-id Join departments d on e. department id e. d. department id John Job-grades g on e. saley DETLEEN g. Lowest-sal AND g. highest-sal;

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

Select e-lastrane, e-hise date from empoyees e where e-hise-date > ( solect hisedate from empoyees where lastrane = '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 e. lastrame AS Employee, ether date as EmpHird, m. lastram as manager and m. tose date as Harager Hird Plan Employees e Jan employees m an e-managerid= m-employeeid when e-tose date < m. hise-date;

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

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