# Department of Information Systems and Technologies 2025-2026 Fall Semester

### **CTIS259 Database Management Systems and Applications**

## Lab Guide 09

Instructor : Nimet Ceren SERİM Week: 6

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Date: 23-24.10.2025

**Aim of this lab session:** 1. Practice 7-1: Displaying Data from Multiple Tables Using Joins

ORACLE Server Configurations: IP Address: 139.179.33.231

Port number: 1522

SID: orclctis

#### Please USE oraxx accounts!

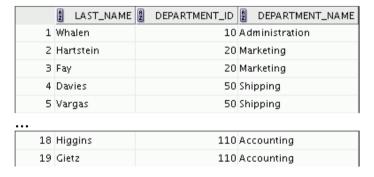
#### **Practices for Lesson 7**

#### **Practice 7-1: Displaying Data from Multiple Tables Using Joins**

1. Write a query for the HR department to produce the addresses of all the departments. Use the LOCATIONS and COUNTRIES tables. Show the location ID, street address, city, state or province, and country in the output. Use a NATURAL JOIN to produce the results.

	LOCATION_ID	STREET_ADDRESS	2 CITY	STATE_PROVINCE	2 COUNTRY_NAME
1	1400	2014 Jabberwocky Rd	Southlake	Texas	United States of America
2	1500	2011 Interiors Blvd	South San Francisco	California	United States of America
3	1700	2004 Charade Rd	Seattle	Washington	United States of America
4	1800	460 Bloor St. W.	Toronto	Ontario	Canada
5	2500	Magdalen Centre, The Oxford Science Park	Oxford	Oxford	United Kingdom

**2.** The HR department needs a report of only those employees with corresponding departments. Write a query to display the last name, department number, and department name for these employees.



**3.** The HR department needs a report of employees in Toronto. Display the last name, job, department number, and the department name for all employees who work in Toronto.



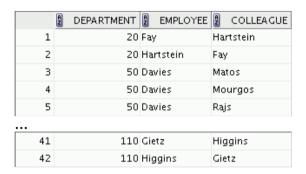
**4.** Create a report to display employees' last name and employee number along with their manager's last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively. Save your SQL statement as lab 07 04.sql. Run the query.



**5.** Modify lab\_07\_04.sql to display all employees including King, who has no manager. Order the results by the employee number. Save your SQL statement as lab 07 05.sql. Run the query in lab 07 05.sql.



**6.** Create a report for the HR department 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. Save the script to a file named lab 07 06.sql.



**7.** The HR department needs a report on job grades and salaries. To familiarize yourself with the <code>JOB\_GRADES</code> table, first show the structure of the <code>JOB\_GRADES</code> table. Then create a query that displays the name, job, department name, salary, and grade for all employees.



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	LAST_NAME		DEPARTMENT_NAME	2 SALARY	grad	E_LEVEL
1	King	AD_PRES	Executive	24000	E	
2	Kochhar	AD_VP	Executive	17000	E	
3	De Haan	AD_VP	Executive	17000	E	
4	Hartstein	MK_MAN	Marketing	13000	D	
5	Higgins	AC_MGR	Accounting	12000	D	

Shipping

2500 A

**8.** The HR department wants to determine the names of all the employees who were hired after Davies. Create a query to display the name and hire date of any employee hired after employee Davies.

	LAST_NAME	HIRE_DATE
1	Fay	17-AUG-97
2	Lorentz	07-FEB-99
3	Mourgos	16-NOV-99
4	Matos	15-MAR-98
5	Vargas	09-JUL-98
6	Zlotkey	29-JAN-00
7	Taylor	24-MAR-98
8	Grant	24-MAY-99

**9.** The HR department needs to find the names and hire dates of all the employees who were hired before their managers, along with their managers' names and hire dates. Save the script to a file named  $lab_07_09.sql$ .

	LAST_NAME	HIRE_DATE	LAST_NAME_1	HIRE_DATE_1
1	Whalen	17-SEP-87	Kochhar	21-SEP-89
2	Hunold	03-JAN-90	De Haan	13-JAN-93
3	Vargas	09-JUL-98	Mourgos	16-NOV-99
4	Matos	15-MAR-98	Mourgos	16-NOV-99
5	Davies	29-JAN-97	Mourgos	16-NOV-99
6	Rajs	17-OCT-95	Mourgos	16-NOV-99
7	Grant	24-MAY-99	Zlotkey	29-JAN-00
8	Taylor	24-MAR-98	Zlotkey	29-JAN-00
9	Abel	11-MAY-96	Zlotkey	29-JAN-00