

UNIVERSITY OF CHITTAGONG

Department of Computer Science and Engineering

Session: 2021-2022 4th semester

Assignment No. : 02

Course Title : Database Systems

Course Code No. : CSE-413

Submitted to:

Dr. Rudra Pratap Deb Nath

Associate Professor Department of Computer Science and Engineering University of Chittagong

Submitted by:

Sanzid Islam Mahi

ID: 22701065

Department of Computer Science and Engineering University of Chittagong

Date: Jul 06, 2024

Chapter 6

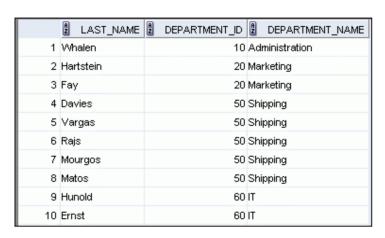
Practice 6

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.



Solution:

2. The HR department needs a report of all employees. Write a query to display the last name, department number, and department name for all the employees.



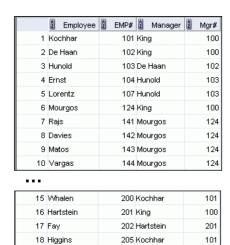
18 Higgins 110 Accounting
19 Gietz 110 Accounting

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.



Solution:

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_06_04.sql. Run the query.



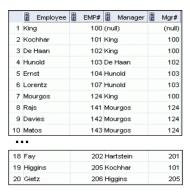
206 Higgins

205

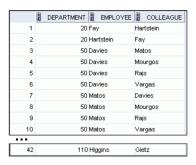
19 Gietz

Solution:

5. Modify lab_06_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_06_05.sql. Run the query in lab_06_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_06_06.sql.



Solution:

7. The HR department needs a report on job grades and salaries. To familiarize yourself with the JOB_GRADES table, first show the structure of the JOB_GRADES table. Then create a query that displays the name, job, department name, salary, and grade for all employees.

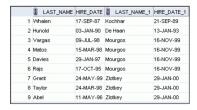


8. The HR department wants to determine the names of all the employees who were hired after Davies. Create a query to display the name and hire date of any employee hired after employee Davies.



Solution:

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_06_09.sql.



Solution:

Chapter 7

Practice 7

1. The HR department needs a query that prompts the user for an employee last name. The query then displays the last name and hire date of any employee in the same department as the employee whose name they supply (excluding that employee). For example, if the user enters Zlotkey, find all employees who work with Zlotkey (excluding Zlotkey).

Solution:

2. Create a report that displays the employee number, last name, and salary of all employees who earn more than the average salary. Sort the results in order of ascending salary.

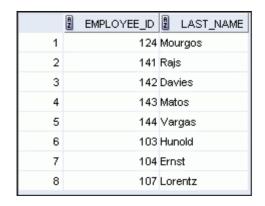


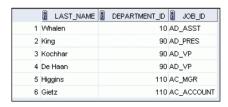


3. Write a query that displays the employee number and last name of all employees who work in a department with any employee whose last name contains the letter "u." Save your SQL statement as lab_07_03.sql. Run your query.

Solution:

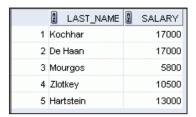
4. The HR department needs a report that displays the last name, department number, and job ID of all employees whose department location ID is 1700. Modify the query so that the user is prompted for a location ID. Save this to a file named lab_07_04.sql.





Solution:

5. Create a report for HR that displays the last name and salary of every employee who reports to King.



Solution:

6. Create a report for HR that displays the department number, last name, and job ID for every employee in the Executive department.

Solution:

7. Modify the query in lab_07_03.sql to display the employee number, last name, and salary of all employees who earn more than the average salary, and who work in a department with any employee whose last name contains a "u." Resave lab_07_03.sql as lab_07_07.sql. Run the statement in lab_07_07.sql.

	DEPARTMENT_ID	LAST_NAME	JOB_ID
1	90	King	AD_PRES
2	90	Kochhar	AD_VP
3	90	De Haan	AD_VP

