Exercise 8 Displaying Data from Multiple Tables Using Joins

*Run script HR.sql, Northwoods.sql before the exercise.

1. Write a query to retrieve student last and first names, along with each student's advisor's ID and last name.

S_ID	S_LAST	S_FIRST	F_I/) F_LAST
2 3 4 5	Miller Umato Black Mobley Sanchez Connoly	Sarah Brian Daniel Amanda Ruben Michael		1 Cox 1 Cox 1 Cox 2 Blanchard 4 Sheng 3 Williams

6 rows selected.

2. Suppose you want to create a query that lists the last names of all faculty members who teach during the Summer 2007 term.

F_LAST	F_FIRST
Cox	Kim
Blanchard	John
Williams	Jerry

3. Suppose that you want to create a query to display the CALL_ID and GRADE values for each of student Sarah Miller's courses.

CALL_ID	G
	-
MIS 101	A
MIS 301	A
MIS 441	В
MIS 451	В

4. 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	CITY	STATE_PROVINCE	COUNTRY_NAME
	2004 Charade Rd	Seattle	Washington	United States of America
1500	2011 Interiors Blvd	South San Francisco	California	United States of America
1400	2014 Jabberwocky Rd	South1ake	Texas	United States of America
1800	147 Spadina Ave	Toronto	Ontario	Canada
2600	9702 Chester Road	Stretford	Manchester	United Kingdom
2500	Magdalen Centre, The Oxford Science Park	Oxford	Oxford	United Kingdom
2400	8204 Arthur St	London		United Kingdom
2700	Schwanthalerstr. 7031	Munich	Bavaria	Germany

8 rows selected.

5. 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.

LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
King Kochhar De Haan Hunold Ernst	90 90 60	Executive Executive Executive IT IT

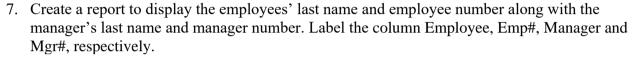
Hartstein Fay Mavris Baer Higgins 20 Marketing 20 Marketing 40 Human Resources 70 Public Relations

110 Accounting

21 rows selected.

6. 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.

LAST_NAME	JOB_ID	DEPARTMENT_ID	DEPARTMENT_NAME
Fay	MK_REP	20	Marketing
Hartstein	MK MAN	20	Marketing



Employee	Emp#	Manager	Mgr#
Hartstein	201	Kinq	100
Zlotkey .	149	King	100
Russell	145	King	100
Mourgos	124	King	100
Kaufling	122	King	100
Ernst	104	Huno1d	103
Matos	143	Mourgos	124
Grant	178	Zlotkey .	149
Taylor	176	Zlotkey .	149
Fay	202	Hartstein	201

21 rows selected.

8. Modify the query in Question 7 to display all employees including King, who has no manager. Order the results by the employee number.

Employee	EMP#	Manager	Mgr#
King	100		
Kochhar	101	King	100
De Haan	102	King	100
Huno1d	103	De Haan	102
Ernst	104	Hunold	103
Hartstein	201	King	100
Fay		Hartstein	201
Mavris	203	Kochhar	101
Baer	204	Kochhar	101
Higgins	205	Kochhar	101

22 rows selected.

9.	Display the Student ID, First Name, Last Name and Grade of a student who scored an 'A' for the	ıe
	course of 'Database Management' at the Northwoods University.	



10. Modify the query in Question 9 to display the Student ID, First Name, Last Name and Grade of a student who does not scored an 'A' for the course of 'Database Management' at the Northwoods University.

S_ID	S_FIRST	S_LAST	G
			-
1	Sarah	Miller	В