Practice C

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.

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

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 employees.

LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
Whalen	10	Administration
Hartstein	20	Marketing
Fay	20	Marketing
Mourgos	50	Shipping
Rajs	50	Shipping
Davies	50	Shipping
Vargas	50	Shipping
▪ ▪ ▪		
De Haan	90	Executive
Higgins	110	Accounting
Gietz	110	Accounting

19 rows selected.

Practice C (continued)

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

LAST_NAME	JOB_ID	DEPARTMENT_ID	DEPARTMENT_NAME
Hartstein	MK_MAN	20	Marketing
Fay	MK_REP	20	Marketing

4. Create a report to display the employee last name and employee number along with the employee's manager's last name and manager number. Label the columns `Employee`, `Emp#`, `Manager`, and `Mgr#`, respectively. Place your SQL statement in a text file named `lab_c_04.sql`.

Employee	EMP#	Manager	Mgr#
Kochhar	101	King	100
De Haan	102	King	100
Mourgos	124	King	100
Zlotkey	149	King	100
Hartstein	201	King	100
Whalen	200	Kochhar	101
Higgins	205	Kochhar	101
Hunold	103	De Haan	102
Ernst	104	Hunold	103
Lorentz	107	Hunold	103
Rajs	141	Mourgos	124
Davies	142	Mourgos	124
Matos	143	Mourgos	124
Vargas	144	Mourgos	124
Employee	**EMP#**	**Manager**	**Mgr#**
Abel	174	Zlotkey	149
Taylor	176	Zlotkey	149
Grant	178	Zlotkey	149
Fay	202	Hartstein	201
Gietz	206	Higgins	205

19 rows selected.

Practice C (continued)

5. Modify `lab_c_04.sql` to display all employees including King, who has no manager. Order the results by the employee number. Place your SQL statement in a text file named `lab_c_05.sql`. Run the query in `lab_c_05.sql`.

Employee	EMP#	Manager	Mgr#
King	100		
Kochhar	101	King	100
De Haan	102	King	100
Hunold	103	De Haan	102
Ernst	104	Hunold	103
Lorentz	107	Hunold	103
Mourgos	124	King	100

▪ ▪ ▪

20 rows selected.

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_c_06.sql`.

DEPARTMENT	EMPLOYEE	COLLEAGUE
20	Fay	Hartstein
20	Hartstein	Fay
50	Davies	Matos
50	Davies	Mourgos
50	Davies	Rajs
50	Davies	Vargas
50	Matos	Davies
50	Matos	Mourgos
50	Matos	Rajs
50	Matos	Vargas
50	Mourgos	Davies
50	Mourgos	Matos
50	Mourgos	Rajs
50	Mourgos	Vargas

▪ ▪ ▪

42 rows selected.

Practice C (continued)

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. Second, create a query that displays the last name, job, department name, salary, and grade for all employees.

Name	Null?	Type
GRADE_LEVEL		VARCHAR2(3)
LOWEST_SAL		NUMBER
HIGHEST_SAL		NUMBER

LAST_NAME	JOB_ID	DEPARTMENT_NAME	SALARY	GRA
Matos	ST_CLERK	Shipping	2600	A
Vargas	ST_CLERK	Shipping	2500	A
Lorentz	IT_PROG	IT	4200	B
Mourgos	ST_MAN	Shipping	5800	B
Rajs	ST_CLERK	Shipping	3500	B
Davies	ST_CLERK	Shipping	3100	B
Whalen	AD_ASST	Administration	4400	B

▪ ▪ ▪

19 rows selected.

If you want an extra challenge, complete the following exercises:

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

LAST_NAME	HIRE_DATE
Lorentz	07-FEB-99
Mourgos	16-NOV-99
Matos	15-MAR-98
Vargas	09-JUL-98
Zlotkey	29-JAN-00
Taylor	24-MAR-98
Grant	24-MAY-99
Fay	17-AUG-97

8 rows selected.

Practice C (continued)

9. The HR department needs to find the name and hire date for all employees who were hired before their managers, along with their manager's name and hire date. Label the columns `Employee`, `Emp Hired`, `Manager`, and `Mgr Hired`, respectively. Save the script to a file named `lab_c_09.sql`.

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

9 rows selected.