Tables: EMPLOYEES,COUNTRIES,LOCATIONS,JOB_HISTORY,DEPARTMENTS

1. Write a query to display the last name, department number, and department name for all employees.

LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
Rajs	50	Shipping
Davies	50	Shipping
Matos	50	Shipping
Ernst	60	IT
Lorence	60	IT
Mourgos	60	IT
King	90	Executive
Kochhar	90	Executive
De Haan	90	Executive

9 rows Selected.

2. Create a unique listing of all jobs that are in department 50. Include the location of the Department in the output.

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JOB_ID       LOCATION_ID
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ST_CLERK     1500
ST_MAN       1500
```

3. Write a query to display the employee last name, department name, location ID, and city of all employees.

LAST_NAME	DEPARTMENT_NAME	LOCATION_ID	CITY
Ernst	IT	1400	South Lake
Lorence	IT	1400	South Lake
Mourgos	IT	1400	South Lake
King	Executive	1700	Seattle
Kochhar	Executive	1700	Seattle
De Haan	Executive	1700	Seattle

6 rows Selected.

4. Display the employee last name and department name for all employees who have an ' *a* '(lowercase) in their last names.

LAST_NAME	DEPARTMENT_NAME
Rajs	Shipping
Davies	Shipping
Matos	Shipping
Kochhar	Executive
De Haan	Executive

5. Write a query to 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

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.

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

19 rows Selected.

7. Modify lab4_6.sql to display all employees including King, who has no manager. Order the results by the employee number.

Employee	EMP#	Manager	Mgr#
Hartstein	201	King	100
Zlotkey	149	King	100

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

20 rows Selected.

7. 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.

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
50	Rajs	Davies
50	Rajs	Matos
50	Rajs	Mourgos
50	Rajs	Vargas
50	Vargas	Davies
50	Vargas	Matos
50	Vargas	Mourgos
50	Vargas	Rajs
60	Ernst	Hunold
60	Ernst	Lorence

60	Hunold	Ernst
60	Hunold	Lorence
60	Lorence	Ernst
60	Lorence	Hunold
80	Abel	Zlotkey
80	Zlotkey	Abel
90	De Haan	King
90	De Haan	Kochhar
90	King	De Haan
90	King	Kochhar
90	Kochhar	De Haan
90	Kochhar	King
110	Gietz	Higgins
110	Higgins	Gietz

38 rows Selected.

9. Show the structure of the JOB_GRADES table. Create a query that displays the name, job, department name, salary, and grade for all employees.

LAST_NAME	JOB_ID	DEPARTMENT_NAME	SALARY	GRA
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Whalen	AD_ASST	Administration	4400	B
Fay	MK_REP	Marketing	6000	C
Hartstein	MK_MAN	Marketing	13000	D
Matos	ST_CLERK	Shipping	2600	A
Vargas	ST_CLERK	Shipping	2500	A
Mourgos	ST_MAN	Shipping	5800	B
Davies	ST_CLERK	Shipping	3100	B
Rajs	ST_CLERK	Shipping	3500	B
Lorence	IT_PROG	IT	4200	B
Hunold	IT_PROG	IT	9000	C
Ernst	IT_PROG	IT	6000	C
Zlotkey	SA_MAN	Sales	10500	D
Abel	SA_REP	Sales	11000	D
King	AD_PRES	Executive	24000	E
De Haan	AD_VP	Executive	17000	E
Kochhar	AD_VP	Executive	17000	E
Gietz	AC_ACCOUNT	Accounting	8300	C
Higgins	AC_MGR	Accounting	12000	D

18 rows Selected.

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

LAST_NAME	HIRE_DATE
Mourgos	16-Nov-99

Matos	15-Mar-98
Vargas	9-Jul-98
Zlotkey	29-Jan-00
Taylor	24-Mar-98
Grant	24-May-99
Fay	17-Aug-97

7 rows Selected.

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.

LAST_NAME	HIRE_DATE	LAST_NAME	HIRE_DATE
Whalen	17-Sep-87	Kochhar	12-Sep-89
Rajs	7-Feb-97	Mourgos	16-Nov-99
Davies	7-Feb-97	Mourgos	16-Nov-99
Matos	15-Mar-98	Mourgos	16-Nov-99
Vargas	9-Jul-98	Mourgos	16-Nov-99
Abel	11-May-96	Zlotkey	29-Jan-00
Grant	24-May-99	Zlotkey	29-Jan-00
Taylor	24-Mar-98	Zlotkey	29-Jan-00

8 rows Selected.