Practice 4

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

```
ENAME    DEPTNO  DNAME
------   ------  ----------
CLARK        10  ACCOUNTING
KING         10  ACCOUNTING
MILLER       10  ACCOUNTING
SMITH        20  RESEARCH
ADAMS        20  RESEARCH
FORD         20  RESEARCH
SCOTT        20  RESEARCH
JONES        20  RESEARCH
ALLEN        30  SALES
BLAKE        30  SALES
MARTIN       30  SALES
JAMES        30  SALES
TURNER       30  SALES
WARD         30  SALES
14 rows selected.
```

2. Create a unique listing of all jobs that are in department 30.

```
JOB          LOC
----------   ---------------
CLERK        CHICAGO
MANAGER      CHICAGO
SALESMAN     CHICAGO
```

3. Write a query to display the employee name, department name, and location of all employees who earn a commission.

```
ENAME    DNAME   LOC
------   ------  ---------------
ALLEN    SALES   CHICAGO
WARD     SALES   CHICAGO
MARTIN   SALES   CHICAGO
TURNER   SALES   CHICAGO
```

Practice 4 (continued)

4. Display the employee name and department name for all employees who have an *A* in their name. Save your SQL statement in a file called *p4q4.sql*.

```
ENAME      DNAME
--------   ------------
CLARK      ACCOUNTING
ADAMS      RESEARCH
ALLEN      SALES
WARD       SALES
JAMES      SALES
MARTIN     SALES
BLAKE      SALES
7 rows selected.
```

5. Write a query to display the name, job, department number, and department name for all employees who work in DALLAS.

```
ENAME     JOB         DEPTNO DNAME
-------   -------     ------- ----------
SMITH     CLERK          20 RESEARCH
ADAMS     CLERK          20 RESEARCH
FORD      ANALYST        20 RESEARCH
SCOTT     ANALYST        20 RESEARCH
JONES     MANAGER        20 RESEARCH
```

6. Display the employee name and employee number along with their manager's name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively. Save your SQL statement to a file called *p4q6.sql*.

```
Employee    Emp# Manager    Mgr#
---------   ------ --------   ----
SCOTT       7788 JONES       7566
FORD        7902 JONES       7566
ALLEN       7499 BLAKE       7698
WARD        7521 BLAKE       7698
JAMES       7900 BLAKE       7698
TURNER      7844 BLAKE       7698
MARTIN      7654 BLAKE       7698
MILLER      7934 CLARK       7782
ADAMS       7876 SCOTT       7788
JONES       7566 KING        7839
CLARK       7782 KING        7839
BLAKE       7698 KING        7839
SMITH       7369 FORD        7902
13 rows selected.
```

Practice 4 (continued)

7. Modify *p4q6.sql* to display all employees including King, who has no manager.
   Resave as *p4q7.sql*. Run *p4q7.sql*.

```
Employee    Emp# Manager   Mgr#
---------   ----- --------- ------
SCOTT       7788 JONES     7566
FORD        7902 JONES     7566
ALLEN       7499 BLAKE     7698
WARD        7521 BLAKE     7698
JAMES       7900 BLAKE     7698
TURNER      7844 BLAKE     7698
MARTIN      7654 BLAKE     7698
MILLER      7934 CLARK     7782
ADAMS       7876 SCOTT     7788
JONES       7566 KING      7839
CLARK       7782 KING      7839
BLAKE       7698 KING      7839
SMITH       7369 FORD      7902
KING        7839
14 rows selected.
```

If you have time, complete the following exercises:

8. Create a query that will display the employee name, department number, and all the
   employees that work in the same department as a given employee. Give each column an
   appropriate label.

```
DEPARTMENT  EMPLOYEE   COLLEAGUE
----------  --------   ----------
        10  CLARK      KING
        10  CLARK      MILLER
        10  KING       CLARK
        10  KING       MILLER
        10  MILLER     CLARK
        10  MILLER     KING
        20  ADAMS      FORD
        20  ADAMS      JONES
        20  ADAMS      SCOTT
        20  ADAMS      SMITH
        20  FORD       ADAMS
        20  FORD       JONES
        20  FORD       SCOTT
...
56 rows selected.
```

Practice 4 (continued)

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

```
Name                Null?      Type
-------------       --------   --------
GRADE                          NUMBER
LOSAL                          NUMBER
HISAL                          NUMBER
```

ENAME	JOB	DNAME	SAL	GRADE
MILLER	CLERK	ACCOUNTING	1300	2
CLARK	MANAGER	ACCOUNTING	2450	4
KING	PRESIDENT	ACCOUNTING	5000	5
SMITH	CLERK	RESEARCH	800	1
SCOTT	ANALYST	RESEARCH	3000	4
FORD	ANALYST	RESEARCH	3000	4
ADAMS	CLERK	RESEARCH	1100	1
JONES	MANAGER	RESEARCH	2975	4
JAMES	CLERK	SALES	950	1
BLAKE	MANAGER	SALES	2850	4
TURNER	SALESMAN	SALES	1500	3
ALLEN	SALESMAN	SALES	1600	3
WARD	SALESMAN	SALES	1250	2
MARTIN	SALESMAN	SALES	1250	2

14 rows selected.

If you want extra challenge, complete the following exercises:

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

ENAME	HIREDATE
SMITH	17-DEC-80
ALLEN	20-FEB-81
WARD	22-FEB-81
JONES	02-APR-81

Practice 4 (continued)

11. Display all employees' names and hire dates along with their manager's name and hire date for all employees who were hired before their managers. Label the columns Employee, Emp Hiredate, Manager, and Mgr Hiredate, respectively.

```
Employee Emp Hiredate  Manager Mgr Hiredate
-------- ------------  ------- ------------
ALLEN    20-FEB-81     BLAKE   01-MAY-81
WARD     22-FEB-81     BLAKE   01-MAY-81
JONES    02-APR-81     KING    17-NOV-81
CLARK    09-JUN-81     KING    17-NOV-81
BLAKE    01-MAY-81     KING    17-NOV-81
SMITH    17-DEC-80     FORD    03-DEC-81
6 rows selected.
```

12. Create a query that displays the employees name and the amount of the salaries of the employees are indicated through asterisks. Each asterisk signifies a hundred dollars. Sort the data in descending order of salary. Label the column EMPLOYEE_AND_THEIR_SALARIES.

```
EMPLOYEE_AND_THEIR_SALARIES
--------------------------------------------------------------
KING      ****************************************************
FORD      *********************************
SCOTT     *********************************
JONES     ******************************
BLAKE     ****************************
CLARK     **********************
ALLEN     ****************
TURNER    ***************
MILLER    *************
MARTIN    ************
WARD      ************
ADAMS     ***********
JAMES     *********
SMITH     ********
14 rows selected.
```