Practice 4

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

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

2. Create a unique listing of all jobs that are in department 30. Include the location of department 30 in the output.

```
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
```

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
------- ------------
BLAKE      SALES
CLARK      ACCOUNTING
MARTIN     SALES
ALLEN      SALES
JAMES      SALES
WARD       SALES
ADAMS      RESEARCH
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 in 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.
```

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.
```

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.

```
DEPARTMENTEMPLOYEE   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.
```

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.
```

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

```
ENAME    HIREDATE
-------  ---------
KING     17-NOV-81
CLARK    09-JUN-81
MARTIN   28-SEP-81
TURNER   08-SEP-81
JAMES    03-DEC-81
FORD     03-DEC-81
SCOTT    09-DEC-82
ADAMS    12-JAN-83
MILLER   23-JAN-82
9 rows selected.
```

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.
```