Practice 3

1. Write a query to display the current date. Label the column Date.

```
Date
---------
28-OCT-97
```

2. Display the employee number, name, salary, and salary increase by 15% expressed as a whole number. Label the column New Salary. Save your SQL statement to a file named *p3q2.sql*.

3. Run your query in the file *p3q2.sql*.

```
EMPNO ENAME      SAL New Salary
----- ------- ----- ----------
 7839 KING     5000       5750
 7698 BLAKE    2850       3278
 7782 CLARK    2450       2818
 7566 JONES    2975       3421
 7654 MARTIN   1250       1438
 7499 ALLEN    1600       1840
 7844 TURNER   1500       1725
 7900 JAMES     950       1093
 7521 WARD     1250       1438
 7902 FORD     3000       3450
 7369 SMITH     800        920
 7788 SCOTT    3000       3450
 7876 ADAMS    1100       1265
 7934 MILLER   1300       1495
14 rows selected.
```

4. Modify your query *p3q2.sql* to add an additional column that will subtract the old salary from the new salary. Label the column Increase. Rerun your query.

```
EMPNO ENAME      SAL New Salary Increase
----- ------ ----- ---------- --------
 7839 KING     5000       5750      750
 7698 BLAKE    2850       3278      428
 7782 CLARK    2450       2818      368
 7566 JONES    2975       3421      446
```

Practice 3 (continued)

5. Display the employer s name, hire date, and salary review date, which is the first Monday after six months of service. Label the column REVIEW. Format the dates to appear in the format similar to "Sunday, the Seventh of September, 1981."

```
ENAME   HIREDATE  REVIEW
-----   --------  ------------------------------------
KING    17-NOV-81 Monday, the Twenty-Fourth of May, 1982
BLAKE   01-MAY-81 Monday, the Second of November, 1981
CLARK   09-JUN-81 Monday, the Fourteenth of December, 1981
JONES   02-APR-81 Monday, the Fifth of October, 1981
MARTIN  28-SEP-81 Monday, the Twenty-Ninth of March, 1982
ALLEN   20-FEB-81 Monday, the Twenty-Fourth of August, 1981
TURNER  08-SEP-81 Monday, the Fifteenth of March, 1982
JAMES   03-DEC-81 Monday, the Seventh of June, 1982
WARD    22-FEB-81 Monday, the Twenty-Fourth of August, 1981
FORD    03-DEC-81 Monday, the Seventh of June, 1982
SMITH   17-DEC-80 Monday, the Twenty-Second of June, 1981
SCOTT   09-DEC-82 Monday, the Thirteenth of June, 1983
ADAMS   12-JAN-83 Monday, the Eighteenth of July, 1983
MILLER  23-JAN-82 Monday, the Twenty-Sixth of July, 1982
14 rows selected.
```

6. For each employee display the employee name and calculate the number of months between today and the date the employee was hired. Label the column MONTHS_WORKED. Order your results by the number of months employed. Round the number of months up to the closest whole number.

```
ENAME      MONTHS_WORKED
-------    -------------
ADAMS                177
SCOTT                178
MILLER               188
JAMES                190
FORD                 190
KING                 191
MARTIN               192
TURNER               193
CLARK                196
BLAKE                197
JONES                198
WARD                 199
ALLEN                199
SMITH                202
14 rows selected
```

Practice 3 (continued)

7. Write a query that produces the following for each employee: <employee name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries.

```
Dream Salaries
-----------------------------------------------------
KING earns $5,000.00 monthly but wants $15,000.00.
BLAKE earns $2,850.00 monthly but wants $8,550.00.
CLARK earns $2,450.00 monthly but wants $7,350.00.
JONES earns $2,975.00 monthly but wants $8,925.00.
MARTIN earns $1,250.00 monthly but wants $3,750.00.
ALLEN earns $1,600.00 monthly but wants $4,800.00
TURNER earns $1,500.00 monthly but wants $4,500.00.
JAMES earns $950.00 monthly but wants $2,850.00.
WARD earns $1,250.00 monthly but wants $3,750.00.
FORD earns $3,000.00 monthly but wants $9,000.00.
SMITH earns $800.00 monthly but wants $2,400.00.
SCOTT earns $3,000.00 monthly but wants $9,000.00.
ADAMS earns $1,100.00 monthly but wants $3,300.00
MILLER earns $1,300.00 monthly but wants $3,900.00.

14 rows selected.
```

If you have time, complete the following exercises:

8. Create a query to display name and salary for all employees. Format the salary to be 15 characters long, left-padded with *$*. Label the column SALARY.

```
ENAME      SALARY
---------- ---------------
SMITH      $$$$$$$$$$$800
ALLEN      $$$$$$$$$$1600
WARD       $$$$$$$$$$1250
JONES      $$$$$$$$$$2975
MARTIN     $$$$$$$$$$1250
BLAKE      $$$$$$$$$$2850
CLARK      $$$$$$$$$$2450
SCOTT      $$$$$$$$$$3000
KING       $$$$$$$$$$5000
TURNER     $$$$$$$$$$1500
ADAMS      $$$$$$$$$$1100
JAMES      $$$$$$$$$$950
FORD       $$$$$$$$$$3000
MILLER     $$$$$$$$$$1300
14 rows selected.
```

Practice 3 (continued)

9. Write a query that will display the employee's name with the first letter capitalized and all other letters lowercase and the length of their name, for all employees whose name starts with *J*, *A*, or *M*. Give each column an appropriate label.

```
Name     Length
-------  ------
Jones         5
Martin        6
Allen         5
James         5
Adams         5
Miller        6
6 rows selected.
```

10. Display the name, hire date, and day of the week on which the employee started. Label the column DAY. Order the results by the day of the week starting with Monday.

```
ENAME   HIREDATE      DAY
------  ---------     -----------
MARTIN  28-SEP-81     MONDAY
CLARK   09-JUN-81     TUESDAY
KING    17-NOV-81     TUESDAY
TURNER  08-SEP-81     TUESDAY
SMITH   17-DEC-80     WEDNESDAY
ADAMS   12-JAN-83     WEDNESDAY
JONES   02-APR-81     THURSDAY
FORD    03-DEC-81     THURSDAY
SCOTT   09-DEC-82     THURSDAY
JAMES   03-DEC-81     THURSDAY
ALLEN   20-FEB-81     FRIDAY
BLAKE   01-MAY-81     FRIDAY
MILLER  23-JAN-82     SATURDAY
WARD    22-FEB-81     SUNDAY
14 rows selected
```

Practice 3 (continued)

If you want extra challenge, complete the following exercises:

11. Create a query that will display the employee name and commission amount. If the employee does not earn commission, put "No Commission." Label the column COMM.

```
ENAME      COMM
------     -----------
SMITH      No Commission
ALLEN      300
WARD       500
JONES      No Commission
MARTIN     1400
BLAKE      No Commission
CLARK      No Commission
SCOTT      No Commission
KING       No Commission
TURNER     0
ADAMS      No Commission
JAMES      No Commission
FORD       No Commission
MILLER     No Commission
14 rows selected.
```