

Practice 3

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

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Date
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29-AUG-06
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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
7369	SMITH	800	920
7499	ALLEN	1600	1840
7521	WARD	1250	1438
7566	JONES	2975	3421
7654	MARTIN	1250	1438
7698	BLAKE	2850	3278
7782	CLARK	2450	2818
7788	SCOTT	3000	3450
7839	KING	5000	5750
7844	TURNER	1500	1725
7876	ADAMS	1100	1265
7900	JAMES	950	1093
7902	FORD	3000	3450
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
7369	SMITH	800	920	120
7499	ALLEN	1600	1840	240
7521	WARD	1250	1438	188
7566	JONES	2975	3421	446
7654	MARTIN	1250	1438	188
7698	BLAKE	2850	3278	428
7782	CLARK	2450	2818	368
7788	SCOTT	3000	3450	450
7839	KING	5000	5750	750
7844	TURNER	1500	1725	225
7876	ADAMS	1100	1265	165
7900	JAMES	950	1093	143
7902	FORD	3000	3450	450
7934	MILLER	1300	1495	195

14 rows selected.

Practice 3 (continued)

5. Display the employee'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
SMITH	17-DEC-80	Monday, the Twenty-Second of JUNE, 1981
ALLEN	20-FEB-81	Monday, the Twenty-Fourth of AUGUST, 1981
WARD	22-FEB-81	Monday, the Twenty-Fourth of AUGUST, 1981
JONES	02-APR-81	Monday, the Fifth of OCTOBER, 1981
MARTIN	28-SEP-81	Monday, the Twenty-Ninth of MARCH, 1982
BLAKE	01-MAY-81	Monday, the Second of NOVEMBER, 1981
CLARK	09-JUN-81	Monday, the Fourteenth of DECEMBER, 1981
SCOTT	19-APR-87	Monday, the Twenty-Sixth of OCTOBER, 1987
KING	17-NOV-81	Monday, the Twenty-Fourth of MAY, 1982
TURNER	08-SEP-81	Monday, the Fifteenth of MARCH, 1982
ADAMS	23-MAY-87	Monday, the Thirtieth of NOVEMBER, 1987
JAMES	03-DEC-81	Monday, the Seventh of JUNE, 1982
FORD	03-DEC-81	Monday, the Seventh of JUNE, 1982
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	231
SCOTT	232
MILLER	295
FORD	297
JAMES	297
KING	297
MARTIN	299
TURNER	300
CLARK	303
BLAKE	304
JONES	305
WARD	306
ALLEN	306
SMITH	308

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

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

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
Allen	5
Jones	5
Martin	6
Adams	5
James	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
TURNER	08-SEP-81	TUESDAY
KING	17-NOV-81	TUESDAY
SMITH	17-DEC-80	WEDNESDAY
JAMES	03-DEC-81	THURSDAY
JONES	02-APR-81	THURSDAY
FORD	03-DEC-81	THURSDAY
ALLEN	20-FEB-81	FRIDAY
BLAKE	01-MAY-81	FRIDAY
ADAMS	23-MAY-87	SATURDAY
MILLER	23-JAN-82	SATURDAY
WARD	22-FEB-81	SUNDAY
SCOTT	19-APR-87	SUNDAY

14 rows selected.

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.

Practice 3 (continued)

12. Create a query that displays the employees' names and indicates the amounts of their salaries through asterisks. Each asterisk signified a hundred dollars. Sort the data in descending order of salary. Label the column EMPLOYEE_AND_THEIR_SALARIES.

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EMPLOYEE_AND_THEIR_SALARIES
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KING          *****
FORD          *****
SCOTT         *****
JONES         *****
BLAKE         *****
CLARK         *****
ALLEN         *****
TURNER        *****
MILLER        *****
WARD          *****
MARTIN        *****
ADAMS         *****
JAMES         *****
SMITH         *****
  
```

14 rows selected.

13. Write a query that displays the grade of all employees based on the value of the column JOB, as per the table shown below. Order the result according to the grade!

<i>JOB</i>	<i>GRADE</i>
PRESIDENT	A
MANAGER	B
ANALYST	C
SALESMAN	D
CLERK	E
None of them above	O

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JOB          G
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PRESIDENT    A
MANAGER      B
MANAGER      B
MANAGER      B
ANALYST      C
ANALYST      C
SALESMAN     D
SALESMAN     D
SALESMAN     D
SALESMAN     D
CLERK        E
CLERK        E
CLERK        E
CLERK        E
  
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14 rows selected.