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Disciplina: Tópicos Especiais em Banco de Dados

```
MYLENA:>SET LINESIZE 500;
MYLENA:>SET PAGESIZE 500;

////////////////////////////////////////////////////////////////////////////////
/
01)

SQL> select * from emp;

     EMPNO ENAME      JOB              MGR HIREDATE        SAL       COMM
DEPTNO
---------- ---------- --------- ---------- -------- ---------- ----------
----------
      7839 KING       PRESIDENT            17/11/81       5000
 10
      7566 JONES      MANAGER         7839 02/04/81     3272,5
 20
      7788 SCOTT      ANALYST         7566 19/04/87       3000
 20
      7876 ADAMS      CLERK           7788 23/05/87       1210
 20
      7902 FORD       ANALYST         7566 03/12/81       3000
 20
      7369 SMITH      CLERK           7902 17/12/80        880
 20
      7698 BLAKE      MANAGER         7839 01/05/81       3135
 30
      7499 ALLEN      SALESMAN        7698 20/02/81       1760        300
 30
      7521 WARD       SALESMAN        7698 22/02/81       1375        500
 30
      7654 MARTIN     SALESMAN        7698 28/09/81       1375       1400
 30
      7844 TURNER     SALESMAN        7698 08/09/81       1650          0
 30
      7900 JAMES      CLERK           7698 03/12/81       1045
 30
      7782 CLARK      MANAGER         7839 09/06/81       2695
 10
      7934 MILLER     CLERK           7782 23/01/82       1430
 10
      5000 MYLENA     DEV             7698 30/08/19       1100
 10
      5001 MARIANA    CHEFE           7788 18/10/19       2500          0
 40
      5002 AURORA     MANAGER         7788 22/11/19       5000          0
 10

17 linhas selecionadas.
```

```
Gravou file afiedt.buf

  1  CREATE OR REPLACE PROCEDURE SHOWSALCOMM
  2  (X_EMPNO IN EMP.EMPNO%TYPE,
  3  X_SAL OUT EMP.SAL%TYPE,
  4  X_COMM OUT EMP.COMM%TYPE,
  5  SALCOMM OUT EMP.SAL%TYPE) AS
  6  BEGIN
  7     SELECT SAL, COMM
  8     INTO X_SAL, X_COMM
  9     FROM EMP
 10     WHERE EMPNO = X_EMPNO;
 11  SALCOMM := X_SAL + X_COMM;
 12  DBMS_OUTPUT.PUT_LINE('SAL = '|| X_SAL);
 13  DBMS_OUTPUT.PUT_LINE('COMM = '|| X_COMM);
 14  DBMS_OUTPUT.PUT_LINE('SAL+COMM = '|| SALCOMM);
 15* END SHOWSALCOMM;

SQL> variable g_sal number;
SQL> execute :g_sal := pesquisa_salario(5000);

Procedimento PL/SQL concluÝdo com sucesso.

SQL> print g_sal

     G_SAL
----------
      1100
```

//
/////////////

02)

```
SQL> ed
Gravou file afiedt.buf

  1  CREATE OR REPLACE FUNCTION average_sal
  2  (v_n IN NUMBER)
  3  RETURN NUMBER
  4  IS
  5  CURSOR emp_cursor IS
  6     SELECT empno, sal
  7     FROM emp
  8     ORDER BY sal DESC;
  9  v_total_sal emp.sal%type := 0;
 10  v_counter NUMBER;
 11  BEGIN
 12     FOR r_emp IN emp_cursor LOOP
 13             EXIT WHEN emp_cursor%ROWCOUNT > v_n;
 14             v_total_sal := v_total_sal + r_emp.sal;
 15             v_counter := emp_cursor%ROWCOUNT;
 16             DBMS_OUTPUT.PUT ('Loop = ');
 17             DBMS_OUTPUT.PUT (v_counter);
 18             DBMS_OUTPUT.PUT ('; Empno = ');
 19             DBMS_OUTPUT.PUT (r_emp.empno);
 20             DBMS_OUTPUT.NEW_LINE;
 21     END LOOP;
 22  RETURN (v_total_sal/v_counter);
 23* END average_sal;
SQL> /
SQL> variable g_average number
SQL> execute :g_average := average_sal(&p_n);
Informe o valor para p_n: 4
Loop = 1; Empno = 7839
Loop = 2; Empno = 5002
Loop = 3; Empno = 7566
Loop = 4; Empno = 7698

Procedimento PL/SQL concluÝdo com sucesso.
SQL> print g_average

 G_AVERAGE
----------
   1058,75
```

```
////////////////////////////////////////////////////////////////////
03)

SQL> ed
Gravou file afiedt.buf

  1    CREATE OR REPLACE FUNCTION average_sal
  2    (v_n IN NUMBER)
  3    RETURN NUMBER
  4    IS
  5    CURSOR emp_cursor IS
  6     SELECT empno, sal
  7     FROM emp
  8     WHERE deptno = v_n
  9     ORDER BY sal DESC;
 10    v_total_sal emp.sal%type := 0;
 11    v_counter NUMBER;
 12    BEGIN
 13     FOR r_emp IN emp_cursor LOOP
 14             v_total_sal := v_total_sal + r_emp.sal;
 15             v_counter := emp_cursor%ROWCOUNT;
 16             DBMS_OUTPUT.PUT ('Loop = ');
 17             DBMS_OUTPUT.PUT (v_counter);
 18             DBMS_OUTPUT.PUT ('; Empno = ');
 19             DBMS_OUTPUT.PUT (r_emp.empno);
 20             DBMS_OUTPUT.NEW_LINE;
 21     END LOOP;
 22    RETURN (v_total_sal/v_counter);
 23*   END average_sal;
SQL> /
```

```
FunþÒo criada.

SQL> define p_n=10
SQL> execute :g_average := average_sal(&p_n);
Loop = 1; Empno = 7839
Loop = 2; Empno = 5002
Loop = 3; Empno = 7782
Loop = 4; Empno = 7934
Loop = 5; Empno = 5000

Procedimento PL/SQL concluÝdo com sucesso.

SQL> define p_n=30
SQL> execute :g_average := average_sal(&p_n);
Loop = 1; Empno = 7698
Loop = 2; Empno = 7499
Loop = 3; Empno = 7844
Loop = 4; Empno = 7654
Loop = 5; Empno = 7521
Loop = 6; Empno = 7900

Procedimento PL/SQL concluÝdo com sucesso.

///////////////////////////////////////////////////////////////////////////

04)

SQL> ed
Gravou file afiedt.buf

  1  CREATE OR REPLACE PROCEDURE exclui_funcionario
  2  (v_emp_no IN emp.empno%TYPE) IS
  3  BEGIN
  4     DELETE FROM EMP
  5     WHERE empno = v_emp_no;
  6     IF SQL%NOTFOUND THEN
  7             RAISE_APPLICATION_ERROR(-20200, 'Funcionario nao existe');
  8     END IF;
  9  COMMIT WORK;
 10* END exclui_funcionario;
SQL> /

Procedimento criado.

SQL> execute exclui_funcionario(555);
BEGIN exclui_funcionario(555); END;

*
ERRO na linha 1:
ORA-20200: Funcionario nao existe
ORA-06512: em "SYSTEM.EXCLUI_FUNCIONARIO", line 7
ORA-06512: em line 1
```

```
//////////////////////////////////////////////////////////////////////

05)

SQL> ed
Gravou file afiedt.buf

  1  CREATE OR REPLACE PROCEDURE inclui_funcionario
  2  ( v_emp_name IN emp.ename%TYPE,
  3    v_emp_job IN emp.job%TYPE,
  4    v_mgr_no IN emp.mgr%TYPE,
  5    v_emp_sal IN emp.sal%TYPE)
  6  IS
  7  v_emp_hiredate emp.hiredate%TYPE:=sysdate;
  8  v_emp_comm emp.comm%TYPE:=0.0;
  9  v_dept_no emp.deptno%TYPE;
 10  next_emp emp.empno%type := 0;
 11  BEGIN
 12      SELECT deptno
 13      INTO v_dept_no
 14      FROM emp
 15      WHERE empno = v_mgr_no;
 16      SELECT max(empno)
 17      INTO next_emp
 18      FROM emp;
 19      next_emp := next_emp + 1;
 20      INSERT INTO emp (empno, ename, job, mgr,
 21                  hiredate, sal, comm, deptno)
 22      VALUES (next_emp, v_emp_name, v_emp_job,
 23              v_mgr_no, v_emp_hiredate, v_emp_sal,
 24              v_emp_comm, v_dept_no);
 25      COMMIT WORK;
 26      EXCEPTION
 27      WHEN NO_DATA_FOUND THEN
 28      RAISE_APPLICATION_ERROR (-20201, 'Gerente nao e um empregado valido.');
 29*  END inclui_funcionario;
 30  /

Procedimento criado.

SQL> execute inclui_funcionario('Kaio','sales',666,980);
BEGIN inclui_funcionario('Kaio','sales',666,980); END;

*
ERRO na linha 1:
ORA-20201: Gerente nao e um empregado
valido.
ORA-06512: em "SYSTEM.INCLUI_FUNCIONARIO", line 26
ORA-06512: em line 1


SQL> BEGIN inclui_funcionario('Kaio','sales',666,980); END;
  2  /
```

```
BEGIN inclui_funcionario('Kaio','sales',666,980); END;
*
ERRO na linha 1:
ORA-20201: Gerente nao e um empregado
valido.
ORA-06512: em "SYSTEM.INCLUI_FUNCIONARIO", line 26
ORA-06512: em line 1

SQL>  execute inclui_funcionario('Kaio','sales',7839,980);

Procedimento PL/SQL concluÝdo com sucesso.

SQL> select * from emp;

     EMPNO ENAME      JOB              MGR HIREDATE        SAL       COMM
DEPTNO
---------- ---------- --------- ---------- -------- ---------- ----------
----------
      7839 KING       PRESIDENT            17/11/81       5000
 10
      7566 JONES      MANAGER         7839 02/04/81     3272,5
 20
      7788 SCOTT      ANALYST         7566 19/04/87       3000
 20
      7876 ADAMS      CLERK           7788 23/05/87       1210
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      7902 FORD       ANALYST         7566 03/12/81       3000
 20
      7369 SMITH      CLERK           7902 17/12/80        880
 20
      7698 BLAKE      MANAGER         7839 01/05/81       3135
 30
      7499 ALLEN      SALESMAN        7698 20/02/81       1760        300
 30
      7521 WARD       SALESMAN        7698 22/02/81       1375        500
 30
      7654 MARTIN     SALESMAN        7698 28/09/81       1375       1400
 30
      7844 TURNER     SALESMAN        7698 08/09/81       1650          0
 30
      7900 JAMES      CLERK           7698 03/12/81       1045
 30
      7782 CLARK      MANAGER         7839 09/06/81       2695
 10
      7934 MILLER     CLERK           7782 23/01/82       1430
 10
      5000 MYLENA     DEV             7698 30/08/19       1100
 10
      5001 MARIANA    CHEFE           7788 18/10/19       2500          0
 40
      5002 AURORA     MANAGER         7788 22/11/19       5000          0
 10
      7935 Kaio       sales           7839 22/11/19        980          0
 10
```

```
18 linhas selecionadas.

////////////////////////////////////////////////////////////////////////////
06)

SQL>  accept p_empno PROMPT 'Entre com o numero do funcionario:'
Entre com o numero do funcionario:7935
SQL> execute exclui_funcionario(&p_empno);

Procedimento PL/SQL concluÝdo com sucesso.

SQL> select * from emp;

     EMPNO ENAME      JOB              MGR HIREDATE        SAL       COMM
DEPTNO
---------- ---------- --------- ---------- -------- ---------- ----------
----------
      7839 KING       PRESIDENT            17/11/81       5000
 10
      7566 JONES      MANAGER         7839 02/04/81     3272,5
 20
      7788 SCOTT      ANALYST         7566 19/04/87       3000
 20
      7876 ADAMS      CLERK           7788 23/05/87       1210
 20
      7902 FORD       ANALYST         7566 03/12/81       3000
 20
      7369 SMITH      CLERK           7902 17/12/80        880
 20
      7698 BLAKE      MANAGER         7839 01/05/81       3135
 30
      7499 ALLEN      SALESMAN        7698 20/02/81       1760        300
 30
      7521 WARD       SALESMAN        7698 22/02/81       1375        500
 30
      7654 MARTIN     SALESMAN        7698 28/09/81       1375       1400
 30
      7844 TURNER     SALESMAN        7698 08/09/81       1650          0
 30
      7900 JAMES      CLERK           7698 03/12/81       1045
 30
      7782 CLARK      MANAGER         7839 09/06/81       2695
 10
      7934 MILLER     CLERK           7782 23/01/82       1430
 10
      5000 MYLENA     DEV             7698 30/08/19       1100
 10
      5001 MARIANA    CHEFE           7788 18/10/19       2500          0
 40
      5002 AURORA     MANAGER         7788 22/11/19       5000          0
 10

17 linhas selecionadas.
```