Assignment 32

Package functions and records

CREATE OR REPLACE PACKAGE emp\_pkg IS

PROCEDURE get\_employees;

END emp\_pkg;

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CREATE OR REPLACE PACKAGE BODY emp\_pkg IS

PROCEDURE get\_employees IS

TYPE emp\_name\_type IS TABLE OF employees.employee\_name%TYPE INDEX BY PLS\_INTEGER;

TYPE emp\_salary\_type IS TABLE OF employees.salary%TYPE INDEX BY PLS\_INTEGER;

TYPE emp\_dept\_type IS TABLE OF employees.department\_id%TYPE INDEX BY PLS\_INTEGER;

TYPE emp\_hiredate\_type IS TABLE OF employees.hire\_date%TYPE INDEX BY PLS\_INTEGER;

v\_emp\_name emp\_name\_type;

v\_emp\_salary emp\_salary\_type;

v\_emp\_dept emp\_dept\_type;

v\_emp\_hiredate emp\_hiredate\_type;

BEGIN

FOR emp\_record IN (SELECT \* FROM employees) LOOP

v\_emp\_name(emp\_record.employee\_id) := emp\_record.employee\_name;

v\_emp\_salary(emp\_record.employee\_id) := emp\_record.salary;

v\_emp\_dept(emp\_record.employee\_id) := emp\_record.department\_id;

v\_emp\_hiredate(emp\_record.employee\_id) := emp\_record.hire\_date;

END LOOP;

FOR i IN v\_emp\_name.FIRST .. v\_emp\_name.LAST LOOP

DBMS\_OUTPUT.PUT\_LINE('Employee ID: ' || i ||

', Name: ' || v\_emp\_name(i) ||

', Salary: ' || v\_emp\_salary(i) ||

', Department ID: ' || v\_emp\_dept(i) ||

', Hire Date: ' || TO\_CHAR(v\_emp\_hiredate(i), 'YYYY-MM-DD'));

END LOOP;

END get\_employees;

END emp\_pkg;

/

BEGIN

emp\_pkg.get\_employees;

END;

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