

CREATE OR REPLACE PACKAGE curs\_pkg IS

CURSOR emp\_curs IS SELECT employee\_id FROM employees

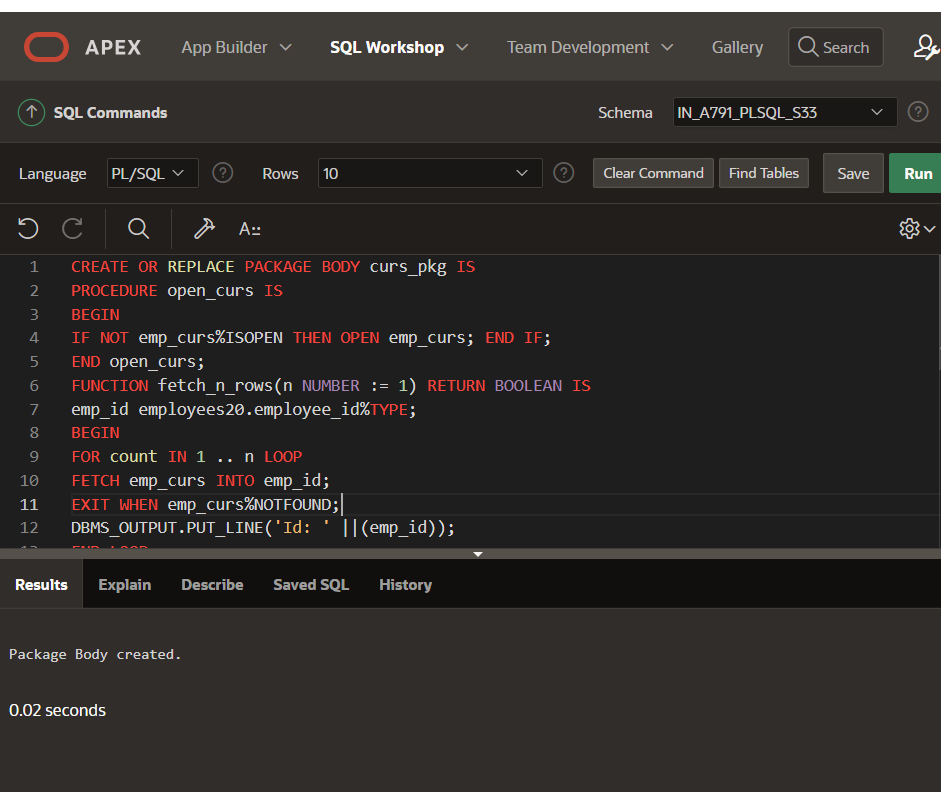
ORDER BY employee\_id;

PROCEDURE open\_curs;

FUNCTION fetch\_n\_rows(n NUMBER := 1) RETURN BOOLEAN;

PROCEDURE close\_curs;

END curs\_pkg;



CREATE OR REPLACE PACKAGE BODY curs\_pkg IS

PROCEDURE open\_curs IS

BEGIN

IF NOT emp\_curs%ISOPEN THEN OPEN emp\_curs; END IF;

END open\_curs;

FUNCTION fetch\_n\_rows(n NUMBER := 1) RETURN BOOLEAN IS

emp\_id employees.employee\_id%TYPE;

BEGIN

FOR count IN 1 .. n LOOP

FETCH emp\_curs INTO emp\_id;

EXIT WHEN emp\_curs%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Id: ' ||(emp\_id));

END LOOP;

RETURN emp\_curs%FOUND;

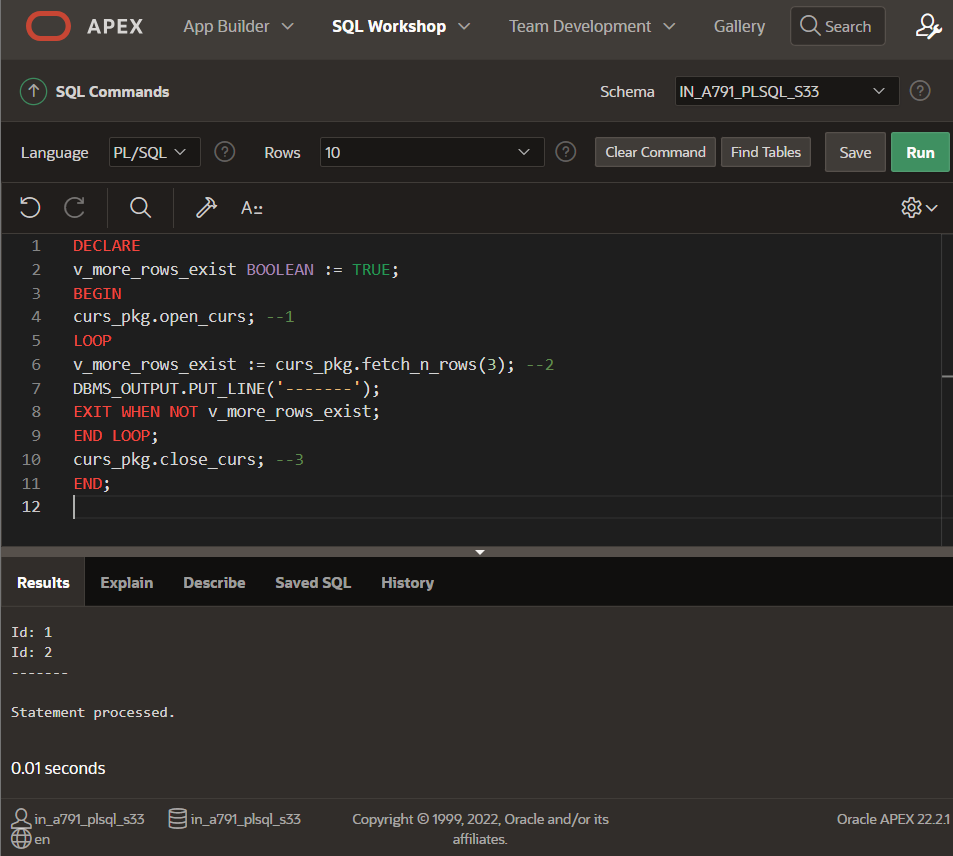
END fetch\_n\_rows;

PROCEDURE close\_curs IS BEGIN

IF emp\_curs%ISOPEN THEN CLOSE emp\_curs; END IF;

END close\_curs;

END curs\_pkg;



DECLARE

v\_more\_rows\_exist BOOLEAN := TRUE;

BEGIN

curs\_pkg.open\_curs; --1

LOOP

v\_more\_rows\_exist := curs\_pkg.fetch\_n\_rows(3); --2

DBMS\_OUTPUT.PUT\_LINE('-------');

EXIT WHEN NOT v\_more\_rows\_exist;

END LOOP;

curs\_pkg.close\_curs; --3

END;