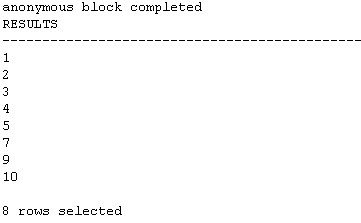
**Practice 5**

1. Execute the command in the lab\_05\_01.sql file to create the messages table. Write a PL/SQL block to insert numbers into the messages table.

a. Insert the numbers 1 to 10, excluding 6 and 8.

b. Commit before the end of the block.

c. Execute a SELECT statement to verify that your PL/SQL block worked.  
You should see the following output:



CREATE TABLE MESSAGES( RESULTS NUMBER(8));

BEGIN

FOR v\_counter IN 1..10

LOOP

IF (v\_counter NOT IN (6,8)) THEN

INSERT INTO MESSAGES(RESULTS) VALUES(v\_counter);

END IF;

END LOOP;

COMMIT;

END;

SELECT \* FROM MESSAGES;

1.Execute the lab\_05\_02.sql script. This script creates an emp table that is a replica of the employees table. It alters the emp table to add a new column, stars, of VARCHAR2 data type and size 50. Create a PL/SQL block that inserts an asterisk in the stars column for every $1,000 of the employee’s salary. Save your script as lab\_05\_02\_soln.sql.

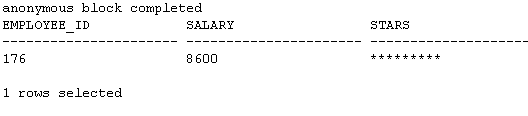
a. In the declarative section of the block, declare a variable v\_empno of type emp.employee\_id and initialize it to 198. Declare a variable v\_asterisk of type emp.stars and initialize it to NULL. Create a variable sal of type emp.salary.

b. In the executable section, write logic to append an asterisk (\*) to the string for every $1,000 of the salary amount. For example, if the employee earns $8,000, the string of asterisks should contain eight asterisks. If the employee earns $12,500, the string of asterisks should contain 13 asterisks.

c. Update the stars column for the employee with the string of asterisks. Commit before the end of the block.

d. Display the row from the emp table to verify that your PL/SQL block executed successfully.

e. Execute and save your script as lab\_05\_02\_soln.sql. The following should be the output:



CREATE TABLE EMP AS

SELECT \* FROM EMPLOYEE;

ALTER TABLE EMP ADD (STARS VARCHAR2(50));

SET SERVEROUTPUT ON;

DECLARE

v\_empno EMP.EMPLOYEE\_ID%TYPE := 198;

v\_asterisk EMP.STARS%TYPE;

v\_sal EMP.SALARY%TYPE;

v\_count NUMBER;

BEGIN

SELECT SALARY

INTO v\_sal

FROM EMP

WHERE EMPLOYEE\_ID = v\_empno;

v\_count := CEIL(v\_sal/1000);

LOOP

v\_asterisk := v\_asterisk||'\*';

v\_count := v\_count-1;

EXIT WHEN v\_count = 0;

END LOOP;

UPDATE EMP SET STARS = v\_asterisk

WHERE EMPLOYEE\_ID = v\_empno;

END;

SELECT \* FROM EMP WHERE EMPLOYEE\_ID = 198;