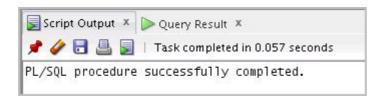
	Practices for Lesson 6: Writing Control Structures
	Chapter 6
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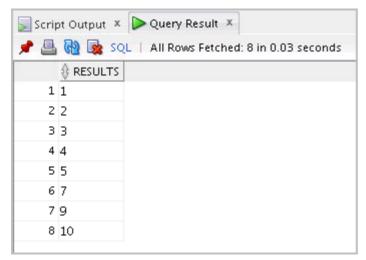
Practice 6: Writing Control Structures

In this practice, you create PL/SQL blocks that incorporate loops and conditional control structures. This practice tests your understanding of various IF statements and LOOP constructs.

- 1. Execute the command in the lab_06_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 through 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.

Result: You should see the following output:





- 2. Execute the lab_06_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 \$1000 of an employee's salary. Save your script as lab_06_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 176. Declare a variable v_asterisk of type emp.stars and initialize it to NULL. Create a variable v_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. 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 (rounded to the nearest whole number).
 - 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 whether your PL/SQL block has executed successfully.
- e. Execute and save your script as lab_06_02_soln.sql. The output is as follows:

