

Database Programming with PL/SQL 3-3: Manipulating Data in PL/SQL **Practice Activities**

Vocabulary

Identify the vocabulary word for each definition below:

Defined automatically by Oracle for all SQL data manipulation statements, and for queries that return only one row.
Defined by the programmer for queries that return more than one row.
Statement selects rows from one table to update and/or insert into another table. The decision whether to update or insert into the target table is based on a condition in the ON clause.
Statement adds new rows to the table.
Statement removes rows from the table.
Statement modifies existing rows in the table.

Tr	y It / Solve It
1.	True or False: When you use DML in a PL/SQL block, Oracle uses explicit cursors to track the data changes.
2.	SQL%FOUND, SQL%NOTFOUND, and SQL%ROWCOUNT are and are available when you use cursors.
	e following questions use a copy of the departments table. Execute the following SQL statement teate the copy table.
	CREATE TABLE new_depts AS SELECT * FROM departments;

3. Examine and run the following PL/SQL code, which obtains and displays the maximum department id from new depts. What is the maximum department id?

```
DECLARE
  v_max_deptnonew_depts.department_id%TYPE;
BEGIN
  SELECT MAX(department_id) INTO v_max_deptno
    FROM new_depts;
DBMS_OUTPUT_LINE('The maximum department id is: ' || v_max_deptno);
END;
```

4. Modify the code to declare two additional variables (assigning a new department name to one of them), by adding the following two lines to your Declaration section:

- 5. Modify the code to add 10 to the current maximum department number and assign the result to v dept id.
- 6. Modify the code to include an INSERT statement to insert a new row into the new_depts table, using v_dept_id and v_dept_name to populate the department_id and department_name columns. Insert NULL into the location_id and manager_id columns. Execute your code and confirm that the new row has been inserted.
- 7. Now modify the code to use SQL%ROWCOUNT to display the number of rows inserted, and execute the block again.
- 8. Now modify the block, removing the INSERT statement and adding a statement that will UPDATE all rows with location_id = 1700 to location_id = 1400. Execute the block again to see how many rows were updated.