

Database Programming with PL/SQL

3-1: Review of SQL DML

Practice Activities

Vocabulary

Identify the vocabulary word for each definition below:

Statement used to remove existing rows in a table.
Statement used to add new rows to a table.
Statement used to INSERT and/or UPDATE a target table, based on matching values in a source table.
Statement used to modify existing rows in a table.
When you create, change, or delete an object in a database.
When you change data in an object (for example, by inserting or deleting rows).

Try It / Solve It

1. Evaluate the following SQL statement.

DELETE FROM students;

This SQL statement will:

- A. Not execute due to wrong syntax
- B. Delete the first row from STUDENTS
- C. Delete all rows from STUDENTS
- D. None of the above

2. Evaluate the following SQL statement.

INSERT INTO STUDENTS (id, last_name, first_name)
VALUES (29,'Perez','Jessica');

This SQL statement:

- A. Does an explicit insert
- B. Does an implicit insert

Use the following table for questions 3 through 8.

grocery_items				
product_id	brand	description		
110	Colgate	Toothpaste		
111	lvory	Soap		
112	Heinz	Ketchup		

- 3. Write a SQL statement to create the above table.
- 4. Write and execute three SQL statements to explicitly add the above data to the table.
- 5. Write and execute a SQL statement that will explicitly add your favorite beverage to the table.
- 6. Write and execute a SQL statement that modifies the description for Heinz ketchup to "tomato catsup".
- 7. Write and execute a SQL statement that will implicitly add your favorite candy to the table.
- 8. Write and execute a SQL statement that changes the soap brand from "Ivory" to "Dove."

Use the following table for questions 9 through 14.

new_items				
product_id	brand	description		
110	Colgate	Dental paste		
175	Dew	Soda		
275	Palmolive	Dish detergent		

- 9. Write and execute SQL statements to create the new_items table and populate it with the data in the table.
- 10. Write a SQL statement that will update the grocery_items table with the brand and description from the new_items table when the product ID values match. If they don't match, add a new row to the grocery_items table. DO NOT EXECUTE YOUR STATEMENT YET.
- 11. How many rows will be updated by the SQL statement in question 10?
- 12. How many rows will be inserted by the SQL statement in question 10?
- 13. Which of the following is true about the SQL statement in question 10?
 - A. new_items is the source table and grocery_items is the target table.
 - B. grocery_items is the source table and new_items is the target table.
- 14. Execute the SQL statement you wrote in question 10, and then SELECT all data from the grocery items table to verify your answers to questions 11 and 12.