

Database Programming with PL/SQL 3-1: Review of SQL DML Practice Activities

## Vocabulary

Identify the vocabulary word for each definition below:

DELETE	Statement used to remove existing rows in a table.
INSERT	Statement used to add new rows to a table.
MERGE	Statement used to INSERT and/or UPDATE a target table, based on matching values in a source table.
UPDATE	Statement used to modify existing rows in a table.
Data definition language	When you create, change, or delete an object in a database.
Data manipulation language	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	Ivory	Soap		
112	Heinz	Ketchup		

- 3. Write a SQL statement to create the above table.
- 4. Write and execute three SQL statements to explicitly and the anome raise to the lane
- 6. Write and execute a SQL statement that modifies t catsup".
- 7. Write and execute a SQL statement that will impli
- 8. Write and execute a SQL statement that changes

```
product_id int,
    brand varchar,
    description varchar
);

INSERT INTO grocery_items (product_id, brand, description)
VALUES (110, 'Colgate', 'Toothpaste');
INSERT INTO grocery_items (product_id, brand, description)
VALUES (111, 'Ivory', 'Soap');
```

CREATE TABLE grocery\_items (

VALUES (112, 'Heinz', 'Ketchup');

```
INSERT INTO grocery_items (product_id, brand, description)
VALUES (113, 'Simply', 'Lemonade');
```

INSERT INTO grocery\_items (product\_id, brand, description)

```
UPDATE grocery_items
SET description = 'tomato catsup'
WHERE product_id = 112;
```

INSERT INTO grocery items

```
VALUES (114, 'Bounty', 'Candy');

UPDATE grocery_items

SET brand='Dove'

WHERE product id = 111;
```

Use the following table for questions 9 through 14.

new_items			
product_id	brand	descript	
110	Colgate	Dental pa	
175	Dew	Soda	
275	Palmolive	Dish deter	

```
CREATE TABLE new_items (
product_id int,
brand varchar,
description varchar
);

INSERT INTO new_items
VALUES (110, 'Colgate', 'Dental paste');
INSERT INTO new_items
VALUES (175, 'Dew', 'Soda');
INSERT INTO new_items
VALUES (275, 'Palmolive', 'Dish detergent');
```

- 9. Write and execute SQL statements the table.
- 10. Write a SQL statement that will from the new\_items table when the grocery\_items table. DO N(

- 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.