

CIS4331 Spring 2019 Lab 9

Data Modification Language (DML)

1. Objectives

This lab will help you to

- Learn how to write a query that modifies data in a table

2. Tasks to Complete

Complete the questions about DML on the **MGS Database** included in the later part of this document. These queries use the tables in **user mgs**. This lab is **required to submit by 11:50pm, Tuesday, March 26**.

NOTE: the links to online Oracle SQL Language references are available in the **Modules\Resources folder on Canvas**.

NOTE: The scripts you need in this practice can be downloaded from the item *“Murach Book Example Code”* in the **Modules\Resources folder on Canvas**.

3. Submission Requirements

NOTES:

- **TO EARN ANY CREDIT, you MUST SUBMIT YOUR WORK TO CANVAS.**
- **YOU MUST WRITE your FULL NAME on the first page.**

Please place your SQL statements in a text file with the extension .sql. Mark each query based on the question number.

Then submit this SQL script file by attaching it to the link **Lab 9** in folder **Assignments\Labs** on Canvas.

Exercises on Data Modification Language on MGS Database

NOTE:

To test whether a table has been modified correctly as you do these exercises, you can write and run an appropriate SELECT statement, as I showed you in the related lectures.

1. Write an INSERT statement that adds this row to the Categories table:

category_id: 4
category_name: Brass

Code the INSERT statement as part of a script so Oracle commits the change.

2. Write an UPDATE statement that modifies the row you just added to the Categories table. This statement should change the product_name column to “Woodwinds”, and it should use the category_id column to identify the row.
3. Write a DELETE statement that deletes the row you added to the Categories table in exercise 1. This statement should use the category_id column to identify the row.
4. Write an INSERT statement that adds this row to the Products table:

product_id: 11
category_id: 4
product_code: dgx_640
product_name: Yamaha DGX 640 88-Key Digital Piano
description: Long description to come.
list_price: 799.99
discount_percent: 0
date_added: Today's date/time.

You **must use a column list** for this statement.

5. Write an UPDATE statement that modifies the product you added in exercise 4. This statement should change the discount_percent column from 0% to 35%.
6. Write a DELETE statement that deletes the row that you added to the Categories table in exercise 1. When you execute this statement, it will produce an error since the category has related rows in the Products table.

To fix that, precede the DELETE statement with another DELETE statement that deletes all products in this category.

NOTE: to code two or more statements in a script, you must end each statement with a semicolon.

You MUST submit 2 DELETE statements for this question.

7. Write an INSERT statement that adds this row to the Customers table:

customer_id:	9
email_address:	rick@raven.com
password:	sesame
first_name:	Rick
last_name:	Raven

You **must use a column list** for this statement.

8. Write an UPDATE statement that modifies the Customers table. Change the password column to "secret" for the customer with an email address of rick@raven.com.
9. Write an UPDATE statement that modifies the Customers table. Change the password column to "reset" for every customer in the table.
10. Open the script named create_mgs_tables.sql and run this script. That should restore the data that's in the database.