Lab Answer Key: Module 7: Using DML to Modify Data

Lab: Using DML to Modify Data

Exercise 1: Inserting Records with DML

Task 1: Prepare the Lab Environment

Note: The exercises will be performed within the TempDB database so that none of the real data is affected. Two scripts are used to set up the environment for the lab—both are included in the project for the lab, along with a sample solution for each exercise.

If you need to start again, open and execute the cleanup script, followed by the setup script; you have a clean environment and can try again.

- Ensure that the 20761C-MIA-DC and 20761C-MIA-SQL virtual machines are both running, and then log on to 20761C-MIA-SQL as ADVENTUREWORKS\Student with the password Pa55w.rd.
- 2. In the D:\Labfiles\Lab07\Starter folder, right-click Setup.cmd, and then click Run as administrator.
- 3. In the User Account Control dialog box, click Yes.
- When the script has finished, press Enter. 4. ldas las copias sin autorización.

Task 2: Insert a Row

- Start SQL Server Management Studio and connect to the MIA-SQL database engine using Windows authentication.
- 2. In the File menu, point to Open, and click Project/Solution.
- In the Open Project window, open the project D:\Labfiles\Lab07\Starter\Project\Project.ssmssIn. 3.
- 4. In Solution Explorer, expand Queries, and double-click 01 Setup.sql.
- 5. On the toolbar, click **Execute**. When the script has executed, you should get the messages indicating (9 row(s) affected), (88 row(s) affected) and (3 row(s) affected).
- Close the **01 Setup.sql** pane and open a new guery window by clicking the **New Query** icon. 6.
- 7. When the query window opens, type **USE TempDB**, followed by **GO** on the next line, and then, on the toolbar, click Execute.
- 8. Below the GO statement in the open window, type the following query:

```
INSERT INTO HR. Employees
```

```
Title
, titleofcourtesy
 FirstName
 Lastname
, hiredate
, birthdate
, address
, city
, country
 phone
VALUES
  'Sales Representative'
  'Mr'
  'Laurence'
  'Grider'
  '04/04/2013'
 '10/25/1975'
  '1234 1st Ave. S.E. '
  'Seattle'
  'USA'
  '(206)555-0105'
);
```

- 9. Click Execute.
- TUIAS SIN AUTORIZA 10. Make sure the row has been inserted, and then close the window. You will be asked if you want to save the query—you can choose where to save it and what to call it.

Task 3: Insert a Row with a SELECT Statement As the Data Provider

- Click New Query 1.
- 2. In the query pane, type the following query:

```
USE TempDB
GO
INSERT INTO Sales.Customers
(
  Companyname
, contactname
, contacttitle
```

- , address
- , city
- , region
- , postalcode
- country
- phone
- fax

)

SELECT

Companyname

- , contactname
- contacttitle
- address
- , city
- region
- , postalcode
- country
- phone
- , fax

FROM dbo.PotentialCustomers;

- Click Execute nitigas la 3.
- Make sure that the rows have been inserted, and then close the window. You will be asked if you want to save 4. the query-you can choose where to save it and what to call it.

How could you have checked the data as it was transferred by the query? Remember the OUTPUT command? If not, you can look at the exercise solution labeled 42 - Lab Exercise 1b Solution.sql.

Result: After successfully completing this exercise, you will have one new employee and three new customers.

Exercise 2: Update and Delete Records Using DML

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Task 1: Update Rows

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- 2. In the query pane, type the following query:

Use TempDB

GO

UPDATE Sales.Customers

```
SET contacttitle='Sales Consultant'
WHERE city='Berlin'AND contacttitle='Sales Representative';
```

- Click Execute. 3.
- Make sure the rows have been modified, and then close the window. You will be asked if you want to save the 4. query—you can choose where to save it and what to call it.

How could you have checked the data as it was transferred by the query? Remember the OUTPUT command? If not, you can look at the exercise solution labeled 43 - Lab Exercise 2 Solution.sql. pertenece a Paula Navarrete. Phavarrete@dt.gob.c/ Dermitidas las copias sin autorización.

Task 2: Delete Rows

- 1. Click New Query.
- 2. In the query pane, type the following query:

```
USE TempDB
GO
DELETE FROM dbo PotentialCustomers
WHERE contactname
IN( 'Taylor, Maurice', 'Mallit, Ken', 'Tiano, Mike' );
```

3. Click Execute.

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Make sure the rows have been deleted, and then close the window. You will be asked if you want to save the 4. query-you can choose where to save it and what to call it.

How could you have checked the data as it was transferred by the query? Remember the OUTPUT command? If not, you can look at the exercise solution labeled 44 - Lab Exercise 2b Solution.sql. ocumento pe

Result: After successfully completing this exercise, you will have updated all the records in the Customers table that have a city of Berlin and a contacttitle of Sales Representative, to now have a contacttitle of Sales Consultant. You will also have deleted the three records in the PotentialCustomers table, which have already been added to the Customers table.

Ración.