

## REVIEW LESSON

MTA Course: Database Administration Fundamentals

Lesson name: Database Fundamentals 3.3

Topic: Update data. (One 50-minute class period)

File name: DBAdminFund\_RL\_3.3

### **Lesson Objective:**

**3.3:** Update data. *This objective may include but is not limited to:* understanding how data is updated in a database and how to write the update data to the database by using the appropriate UPDATE statements; update by using a table.

### **Preparation Details**

#### **Prerequisite student experiences and knowledge**

An understanding of managing database objects and the UPDATE command are required for this review. The primary focus of this review will be on the applied use of the UPDATE command including CASE statements. This MTA Certification Exam Review lesson is written for students who have learned about database administration. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the Microsoft® resources and Web links at the end of this review lesson.

#### **Instructor preparation activities**

None

#### **Resources, software, and additional files needed for this lesson:**

- Microsoft PowerPoint® viewer and projector
- DBAdminFund\_PPT\_3.3
- DBAdminFund\_SA\_3.3
- DBAdminFund\_SA\_3.3\_Key

## Teaching Guide

### **Essential vocabulary:**

**UPDATE**—a statement used to update existing records in a table. Depending on the WHERE clause, the UPDATE statement will be able to modify zero, one, or multiple rows in the table.

**CASE**—a statement that creates when-then-else functionality (WHEN this condition is met, THEN do this).

## Lesson Sequence

### **Activating prior knowledge/lesson staging (5 minutes)**

1. *Say:* During our last review lesson, we reviewed different uses of the INSERT command with basic functions. In today's class, we will review the UPDATE command and the use of CASE.

### **Lesson activity (35 minutes)**

1. Present the DBAdminFund\_PPT\_3.3 PowerPoint slideshow.
2. Distribute Student Activity DBAdminFund\_SA\_3.3. In teams of two, students will create three to four UPDATE statements to apply to the tables on the activity sheet and then exchange documents with another team to solve. Statements and answers will vary. The objective is for students to analyze the data, create statements, and be able to process the statements.
3. Monitor student progress on the activity to guide the practice and to correct misunderstandings.

### **Assessment/lesson reflection (10 minutes)**

1. There are three questions for the class on the last slide of the presentation. This provides the opportunity for a class discussion of the lesson or a formal assessment with a written quiz. The use of small student whiteboards works very well here as a lesson reflection tool.
2. Collect the student activity for assessment if desired.

### **Microsoft resources and Web links**

#### **Faculty Connection Academic Resource Center**

(<http://www.microsoft.com/education/facultyconnection/ARC/ResourceCenter.aspx?c1=en-us&c2=0>)