REVIEW LESSON

MTA Course: Database Administration Fundamentals
Lesson name: Database Fundamentals 3.2
Topic: Insert data. (One 50-minute class period)
File name: DBAdminFund_RL_3.2

Lesson Objective:

3.2: Insert data. *This objective may include but is not limited to:* understanding how data is inserted into a database; how to use INSERT statements.

Preparation Details

Prerequisite student experiences and knowledge

An understanding of managing database objects and the INSERT command is required for this review. The primary focus of this review will be on the applied use of INSERT command queries.

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_3.2

- DBAdminFund_SA_3.2

Teaching Guide

Essential vocabulary:

INSERT INTO—this statement is used to insert a new row in a table.

INSERT INTO with SELECT—this statement is used to insert a new row in a table when a sub-select is used instead of the VALUES clause. Depending on the schema definition of the table (i.e. if certain columns are defined with DEFAULT constraints), the INSERT statement requires data for all or only a sub set of the columns present in the table. This is true for both the 'INSERT INTO' and 'INSERT INTO with SELECT' statements.

Lesson Sequence

Activating prior knowledge/lesson staging (10 minutes)
  1. *Say:* Today, we will look at the use of the INSERT command with basic functions to insert data into a database.

Lesson activity (30 minutes)
  1. Present the DBAdminFund_PPT_3.2 PowerPoint slideshow.

  2. Distribute Student Activity DBAdminFund_SA_3.2. In teams of two, students will create three to four INSERT 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 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=e n-us&c2=0)

MSDN Search – Data Types
(http://social.msdn.microsoft.com/Search/en-US?query=data%20types&ac=3)