REVIEW LESSON

MTA Course: Database Administration Fundamentals
Lesson name: Database Fundamentals 5.2
Topic: Understand database backups and restore (One 50-minute class period)
File name: DBAdminFund_RL_5.2

Lesson Objective:

5.2: Understand database backups and restore. *This objective may include but is not limited to:* understanding various backup types, such as full and incremental, importance of backups, how to restore a database.

Preparation Details

Prerequisite student experiences and knowledge

An understanding of database backup methods is required for this lesson. The primary focus of this review will be understanding various backup types, such as full and incremental, the importance of backups, and how to restore a database.

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_5.2

Teaching Guide

Essential vocabulary:

backup—a process of saving all needed items to recreate a database in useful form in relatively short time if necessary.

full backup—all files are copied for possible future retrieval.

incremental backup—only files that have been changed since the last backup are copied.

differential backup—only files which have been changed since the last full backup are copied.

replicated services—a full or incremental reproduction of the database.

Lesson Sequence

Activating prior knowledge/lesson staging (5 minutes)
1. *Say:* The primary focus of this review will be on backup systems, including replicated services as a form of a backup system.

Lesson activity (35 minutes)
1. Present the DBAdminFund_PPT_5.2 PowerPoint slideshow.

Assessment/lesson reflection (10 minutes)
1. There are questions for the class on the last slide of the presentation. These provide an opportunity for a class discussion. If you choose a formal assessment, you can turn this into a written quiz. The use of small student whiteboards works very well here as a lesson reflection tool.

Microsoft resources and Web links

Faculty Connection Academic Resource Center
(http://www.microsoft.com/education/facultyconnection/ARC/ResourceCenter.aspx?c1=en-us&c2=0)