Deploying and Maintaining a Multiuser Geodatabase
Course introduction

Introduction
Course goals
Additional resources
Installing the course data
Icons used in this workbook
Understanding the ArcGIS Platform

1 What is a multiuser geodatabase?

Lesson introduction
Multi-tier architecture
Identifying the appropriate software tier
Multiuser geodatabase components
Hierarchy of users
Comparing tools for making a multiuser geodatabase
Create an enterprise geodatabase
Explore the repository
Exercise flow
Orientation to the course exercise environment
Exercise 1A: Create a multiuser geodatabase in SQL Server
  Confirm services on the RDBMS server
  Install RDBMS client software
  Create a multiuser geodatabase
Exercise 1B: Create a multiuser geodatabase in Oracle
  Confirm services on the RDBMS server
  Install RDBMS client software
  Create a multiuser geodatabase
Exercise 1C: Create a multiuser geodatabase in PostgreSQL
  Confirm services on the RDBMS server
  Configure PostgreSQL server
  Create a multiuser geodatabase
Lesson review

2 Connecting to the geodatabase

Lesson introduction
RDBMS client software
Create a connection
Software version compatibility
Authentication methods
Connection files
Exercise 2: Configure connections to a multiuser geodatabase
  Create a connection using the Catalog pane
  Manage active connections
  Connect to a specific version
Create a folder connection
Create a connection using a geoprocessing tool
Manage connection files
(Optional) Remove Oracle APEX tables
Lesson review

3  Loading data into the geodatabase

Lesson introduction
Data owner account
Create the data owner account
RDBMS considerations
Geoprocessing environment settings
Choosing a data-loading tool
Updating datasets
Automation
Use ModelBuilder
Exercise 3: Load data into the geodatabase
  Create the data owner account and connection
  Load multiple datasets into a geodatabase
  Append data into a single feature class
  Load data by importing an XML workspace document
  Update datasets
Lesson review

4  Configuring privileges

Lesson introduction
Data users
Creating data users
Roles
Manage users
Defining roles
Designing roles
Securing credentials
Exercise 4: Configure privileges for data use
  Create roles
  Create users
  Apply privileges
  Test privileges
Lesson review

5  Managing storage

Lesson introduction
Configuration parameters
Configuration keywords
Supported spatial types
DBTUNE table
Create and update keywords
Exercise 5: Customize storage using configuration keywords
   Investigate Help documentation
   Export DBTUNE
   Modify the DEFAULTS keyword
   Create a custom keyword
   Import DBTUNE
   Load data using modified and new keywords
Lesson review

6  Maintaining the geodatabase

Lesson introduction
Attribute indexes
Statistics
Manage attribute indexes and statistics
Spatial indexes
Maintaining geodatabase performance for versioned data
Scheduling tasks
Manage performance tasks with Python
Schema locks
View and clear locks
Exercise 6: Maintain performance in your geodatabase
   Import census data
   Create indexes
   Update statistics
   Compress the geodatabase
   Rebuild indexes
   Automate performance tasks
Lesson review

7  Associating data

Lesson introduction
Query layers
Create query layers
Database views
Create database views
Choosing between query layers and database views
Determining whether to create query layers or database views
Exercise 7: Associate data with database views and query layers
   Create a query layer
   Explore election data
   Create database views
8 Applying the geodatabase workflow

Lesson introduction
Geodatabase workflow
Geodatabase responsibilities
Geodatabase tasks
Exercise 8: Configure and manage a multiuser geodatabase
   (Oracle only) Drop objects from previous database
   (PostgreSQL only) Configure PostgreSQL server
Create the Manhattan geodatabase
Load data into the geodatabase
Apply privileges
Maintain performance

Lesson review

Appendixes

Appendix A: Esri data license agreement
Appendix B: Answers to lesson review questions
   Lesson 1: What is a multiuser geodatabase?
   Lesson 2: Connecting to the geodatabase
   Lesson 3: Loading data into the geodatabase
   Lesson 4: Configuring privileges
   Lesson 5: Managing storage
   Lesson 6: Maintaining the geodatabase
   Lesson 7: Associating data
   Lesson 8: Applying the geodatabase workflow