

# Activity 14

## Active Learning Exercises

CSS 341

### Names (if present in class):

Download into your editor the file *ADOActivity13Access.vbs* from the Week 8 examples. This demo program takes you through the same manipulations on the database *StudentInfo.mdb* that you carried out by hand in Activity 13. The purpose of the present activity is to give you a chance to look *closely* at one person's implementation of those same operations in a vbs program.

1. Within this database (*StudentInfo.mdb*) there is a table with the same name *StudentInfo*. (This is not required, but is a coincidence here.) Find the calls to subroutines and the actual statements within them that: a) link a command object to this particular data table;

and b) links that particular command object to the record set contained in that table.

2. One of our exercises in class was to manually add a new data record to the *StudentInfo* data table.
  - a. Find the calls to subroutines and the actual statements within them that add the record for Carol Johnson to the table
  - b. What is the purpose of the If-test on *adFldIsNullable* within that routine?

3. What does the call to *Update()* do after these records are added? Why is this necessary?
  
4. Find the statement(s) in the vbs program that reference the preexisting query *AllBusStudents*. Which statement actually prepares the table for our inspection that is the final result of this query?
  
5. Find the statement in the vbs code that defines the new query *AllMNStds*, and in the on-screen Access view of the database, open the existing query *AllWASStudentsByID* in design view.
  - a. Looking at the design view, why are two data tables needed for this query and why are they joined the way they are?
  
  - b. Select the SQL view of the above query and compare to the query definition in the vbs code. *Do you see any differences?*
  
  - c. In the vbs code, which statements actually execute the query and prepare a record set of its results?
  
  - d. How would you change this query if you wanted the output from it to include the students' first names as well.