

**MS Access Tables**  
(First or Second Class Session)

1. Construct a Microsoft Access Database table that that represents the Student entity. Build it so that it contains the following entities:
  - B. **Last Name** – Maximum of fifteen characters. Make sure that the last name is always completely entered in upper case letters.
  - C. **First Name** - Maximum of fifteen characters. Make sure that the first letter of the first name is always capitalized and that the rest of the name is always in lower case.
  - D. **Student Number** - - Have Access make this entry automatically.
  - E. **Gender** – use a one character long code (M or F) and do not allow the user to continue without making an entry. Do not allow lower case letters.
  - F. **Social Security Number (SSN)** – It should look like xxx-xx-xxxx when it is entered.
  - G. **Phone number** - Have the format structured so that it looks like (202) 283-5908.
  - H. **Date Entered** – Format this date like 12-Mon-03. Have Access enter the date automatically.
  - I. **Start Date** – Format it like 12/24/2000. Allow only dates in the future. Create an error message to tell the user how to correct the error.
  - J. **Pay Rate** – Format in dollars with no cents. Set a default value as the minimum wage.
  - K. **Distance** – This is defined to be the distance in kilometers from the home to the school, accurate to one tenth of a kilometer.
  - L. **Age** – Use an integer to represent this item.
  - M. Index the table on the SSN.
  - N. Set the Student number to be the key for the table
2. Build a second entity called Student Address. Be creative in the use of attributes and MS Access features. Establish an appropriate key for the Student address entity.
3. Create a third entity of your choice that has a composite key.