Database Integration Project #1

Create a Java program that does the following. I suggest using jGrasp.

This program will allow you to enter employee information for 9 employees only. After you finish the 9th employee the program should end.

Key the following information thru your Java program.

1. Employee number
2. First name
3. Last name
4. City
5. State (Note: state is to be keyed in lowercase but converted to uppercase when outputted to the text file)
6. Zip code
7. Job title
8. Annual salary
9. NOTE: for the First Name/Last Name/City/Job Title convert just the first letter to uppercase when outputted to the text file

Make your input look like EXAMPLE A, but the input should be repeated 9 times.

If the salary entered is more than $200,000 put it in a loop that displays an error message until the amount entered is under $200,000. See EXAMPLE B

Output the data to a text file (.txt) called Employee Data thru your Java program and put the file on your C drive thru your Java program**. The file should be comma delimited.**

Create an Access Database called Employee Information.

Import the text file data into a table in the database called Employee Master and give the fields the following names and properties. Document each step of the import with screenshots showing how you did it.

Field names and properties to be created in the Employee Master table

1. EmpNo
   1. Long integer
   2. This is the key
   3. No duplicates allowed
2. First Name
   1. Short text
   2. Length is 25
3. Last Name
   1. Length is 40
4. City
   1. Length is 40
5. State
   1. Length is 2
   2. Must allow only uppercase
   3. Validation rule where it can only be MN or ND
6. Zip

1. Job Title
   1. Length is 40
2. Salary
   1. Currency
   2. Validation rule where salary cannot be greater than $200,000

Make input required in all fields in the Employee Master table thru the properties

In the Employee Information database create an SQL query that displays the last name of each employee and their salary. Total all salaries using the SUM in SQL, call the query Big Bucks Paid. Note the total must be done using SQL code. See EXAMPLE C

In the Employee Information database create an SQL query that displays the last name of each employee and their salary, compute their hourly rate based on 40 hours per week for 52 weeks a year. Format the hourly rate to currency and 2 decimals. Call the query Per Hour Rate. See EXAMPLE D

Create an entry form using Form Design and call it Employee Update and make it look like EXAMPLE E.

Create a new table called Salary Change and include the following fields. The key is both the EmpNum and Date Changed.

1. EmpNum as a long integer
2. Date Changed as a Date/Time (format is Short Date)
3. New Salary as a currency ( make a validation rule where the salary cannot be greater than $200,000 also add a validation text)

Create a relationship between the two tables.

Create an entry form using Form Design and call it Salary Changes and make it look like EXAMPLE F.

Key in all the employee numbers and their salary changes (add $10,000 to each employees salary). Your screen should look like EXAMPLE G after tabbing to the **date changed**. It will show the employee name and the current salary. Make the tab stop only on the 3 input fields and make the backcolor of the name and old salary the same color as the screen so they are hidden in the beginning. (note for 2015 if you close form and then open again and key more data in it will overwrite one of the records, this is a bug)

Now write an **Update Query** that will take the data from the Salary Change table and update the Employee Master table with their new salary.

When done on campus students show me it works and online students submit the Java code, Access database, import screenshots.