**Introduction to Relational Database Concepts**

**Project 3 “ACME Photo” Specifications - 20 Points - Fall 2015**

**I. BACKGROUND INFO**

Clients sign contracts with ACME Photo for a photo session. ACME stores each client’s business name (if they have one), client first and last name, client phone number, client home phone, work phone and client cell phone number. Each contract is billed to one specific client. ACME tracks the contract entry date and contract completion date. They also record the initial proposed date of the photo session and the actual date of the photo session. A total contract fee is calculated and stored. ACME anticipates repeat business with their clients. Thus, a client can have multiple contracts. ACME also keeps track of (potential) clients who may not yet have signed a contract.

The portraits are taken in a single session. Each session will have at least one photo shoot but each session could include several photo shoots. Each photo shoot occurs at one of several distinct locations. For each location ACME keeps a description of the location, whether a permit is required (yes/no), whether the permit has been obtained for a particular shoot, whether a fee is required to use the location, and, if there is a fee, the amount of the fee, whether the location fee has been paid for this particular photo shoot and a comment about the location. ACME tracks the length of each photo shoot (recorded in tenths of an hour) and calculates the total time for all the shoots as part of the calculation to determine the total contract fee.

**II. PROJECT REQUIREMENTS**

**Part 1: Due Tues. Nov. 24, 2015 – 5:30PM in class review needed by instructor.**

1. Organize the data into 3rd normal form. Draw an Entity Relationship Diagram (ERD) of the normalized data using Visio to represent the entities, primary keys, foreign keys, relationships and business rules described above. Enter a text box on the diagram identifying the assignment and your name. Review your ERD to confirm that it conforms to 3rd normal form. It is recommended that you show your ER diagram to your instructor for evaluation prior to proceeding with the next project requirement. (15 pts.)

**Part 2: Due Sunday, Nov. 29, 2015 @ 11:59PM.**

2. After receiving instructor approval of your ERD, create the database tables in Access. Name the database, Project3Lastname.accdb. Give each field a correct data type and set a suitable field length property for all Text fields. (2 pts.)

a. Create a validation rule for at least one field in one of the tables. Enter the validation rule and validation text for that field in the table definition. List the table and field name here.

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b. Create a default value for at least one field in one table. Set the default value for that field in the table definition. List the table and field name here.

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3. Set up the Relationships between the tables in the Relationship Window of Access (1 pts)

4. Enter at least 3 records of data into each table you have. You can make up the data. Try to be as realistic as possible with the data (1 pts)

5. Create a form for one of your tables. Use the Form Wizard and select all fields for the table and columnar format. Name the form appropriately. (1 pts)

Submit a copy of this specification sheet with your name and the requirement 2. a and b steps completed. Upload the Visio diagram file and the Access database file to the Blackboard Project 3 submission link.