

## IS 201 – Access Project Overview

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The goal of this project is develop a database for a company that provides training services. The database should eventually keep track of all completed and scheduled training. In the sample data I provide, my company is named “ProLearning, LLC” and we sell technology-related training. You (or your team if you are working with a team for this project) should identify what kind of training services you provide and select a name for your company. The only constraints are that the training can’t be obscene and/or offensive and that the training could be scheduled in daily increments paid by the hour.

By the end of part three of the project, you will have a database populated with your own sample data, a set of forms to input and view data, queries to create information from the data in the database, and reports to view information.

Sample data for the example company, ProLearning, LLC, is provided to help you understand what data must be stored in the database. The sample data is available in an Excel worksheet called “AccessProjectSampleData.” Each row in the worksheet represents one training class (called a training “event”) conducted by ProLearning. The first seven columns contain data about the customer who received training. For example, the first valid row of data shows that training was received by customerID 10058, EcoMed Services, Inc., located in Reno NV. The trainer who performed the training was Trainer ID 312, Jane Martin. Jane earns \$25/hour. The training was conducted for a total of 16 hours between 8/20/2012 to 8/21/2012. The training was type ID 12, which is a class in Beginning MS Access Development. The hourly price for training to the customer was \$50, and there were additional expenses of \$250 for training materials and \$15 for travel. Here is some additional information about the sample data:

1. A customer has only one address and phone number.
2. The hourly price of training is related to the Training Type. In other words, the hourly price does not change if different trainers conduct the same course.
3. The training expenses and travel expenses fluctuate. They depend on when a specific training event occurs. For example in the sample data, the training expenses for “Beginning MS Access Development” were \$250 for one training event while they were \$85 for a different offering of that same course.
4. The hourly rate paid to a trainer is related to a trainer. A trainer only has one hourly rate.

### Access Project Part One

Your tasks for part one of the Access Project Design are to select the type of training your company sells, identify a company name, design a database for the application, create the required tables, relate the tables and populate each table with sample data. Some of the deliverables will be on paper and the others will be in an .accdb file.

Turn in the following on a piece of paper with each team member’s name:

- 1) A sentence or two naming your company and explaining the training you sell. Yes, you can sell the same type of training as ProLearning, but please give your company a name other than ProLearning;
- 2) A database design using either the crow’s foot notation discussed in class or the MS Access relationship diagram notation. The design must include a primary key for each entity, a foreign key for each relationship and all necessary attributes to store the data required by the application. An entity on the diagram will become a table in MS Access – just like the diagrams we have been working with in class.

3) The name of the .accdb file for the team (or for you working as an individual). Include the name of the folder (IS201Morning or IS201Afternoon).

Turn in the required database in an .accdb file that is uploaded to the K:drive in your correct folder on the COBA server. If you are working as part of a team with students from another section, upload the file to the folder where the majority of the students are enrolled. Name your file with the last name of one of the group members and the notation "AccessProj1". For example, my file would be called: EdbergD\_AccessProj1.accdb.

The required database should include the following components:

1. All tables on the design created with appropriate data attributes. Each data attribute should have an appropriate data type and size with input masks for phone numbers and zip code.

2. All tables related correctly with foreign keys. You are required to use the lookup wizard to relate a customer to a training event. I recommend that you use the lookup wizard to relate a training type to a training event.

3. All tables populated with appropriate data. I want the test data set to be as "realistic" as possible to ensure that you can test your forms and reports in the subsequent parts of the project. The test data set must include:

- At least 10 customers. Make sure that some (but not all) of the customers have a billing address in Nevada.
- At least 25 training events. A training "event" is an actual class scheduled and conducted for a customer. Each row in the worksheet represents a training "event." The sample worksheet has 12 training events. Make sure that some of the customers have more than one training event in the database. At least two customers should have more than three training events in the database. Some of the customers should have zero training events in the database.
- At least 10 trainers. Some of the trainers should have multiple training events. Two of the trainers should have zero training events in the database.
- At least 15 different training types. Three of the training types should have zero training events in the database.