

Fall 2020 – Term Project Prototype & Screen Recording (zoom)

60 points

Due Date: 12/11/2020 (Friday)

Early Bird: 12/07/2020 (Monday)

Late Penalty: 5 points per day. No submissions after 12/14/2020 (Monday)

Before we start

*Important: Read these instructions **carefully**, so that you are fully aware of the requirements on your project, my expectations, and how you will be graded.*

Background

During our online discussion board sessions, you learned that you were hired by Fuzzy Logic Radio Inc. to help them develop a data model and prototype applications for managing their operations. For your term, you will create a robust proposal for Prep including:

1. ~~A review of their stated requirements and the associated business rules – Already done in a previous assignment – no need to resubmit.~~
2. ~~A list of assumptions made where the stated requirements are unclear, missing, or not included in your proposal – already done – no need to resubmit.~~
3. ~~An ERD and discussion of a proposed logical model for their business - already done – no need to resubmit.~~
4. ~~A detailed discussion of the underlying Entities, Attributes, and Relationships needed to implement the ERD. This differs from #3 in that you should have a write up (pdf) that describes the Tables, Fields, and Relationships to a user in English. (That is, it provides further information and clarification than the model so that I may understand the meanings of fields, tables, and relationships not clear from the model definition). Your goal should be~~

~~a database design that is in 3NF format. You may deviate from 3NF, but you should explain where and why you do so.~~ Already done – no need to resubmit.

5. A prototype implementation using Oracle. You should be able to show
 - a. That you are able to utilize Oracle as an implementation. You should have table creation, primary key and foreign key definitions and referential integrity for all of the tables in your data model. You should also create some sample data for each of your tables so that you can show it working properly in b.
 - b. That you can show some “typical” questions or operations for the business. [Editor’s note: it will be important to show one or more “interesting” operations involving multiple database interactions (create, read, update, delete AKA “CRUD”) within the scope of a single transaction. Your prototype needs to be able to be executed repeatedly, and you ***must*** be clear in your write up the order of execution of the .sql files (see below). Note: A good starting place is to create queries for the items you did in Assignment 10.
 - c. **You will need to provide me the sql file(s) to create the tables, etc. and execute your prototype queries.** Your SQL MUST be able to be executed multiple times without failure – this means that you MUST drop w/cascade any object you create in your script.

If you have any questions, ask by email or in the “Ask the Instructor” discussion board.

Grading Criteria – Term Project Prototype & Video

This part of the term project grade is based on:

- ❓ Prototype - How well does your prototype implementation show the subset of FUZZY’s business? Are your tables documented? Do you have the proper DML to create the necessary objects? Do you have sample data that you load? Does your prototype show some typical queries or operations on the underlying data? Do you have adequate test/sample data to show your prototype?
- ❓ Presentation: You will be presenting your completed application to the rest of the class via a screen show which you record. Note that you can do this with zoom.

Note: The earlier assignments where you’ve done pieces of this project are also included in the Final Project and Related % column (in addition to this assignment grade).

Grading Criteria Weights – Completed Final Project

- Prototype Implementation – 75%

- Presentation – 25%