**Business Data Management**

**Assignment I**

**Due Date: Oct 6, 2021**

**FIGURE P1.1 The File Structure for Problems 1-3**



**1. (5 pts) How many records does the file contain? How many fields are there per record?**

**2. (10 pts) What problem would you encounter if you wanted to produce a listing by city? How would you solve this problem by altering the file structure?**

**3. (10 pts) What data redundancies do you detect? How could those redundancies lead to**

**anomalies?**

**4. (10 pts) Identify and discuss the serious data redundancy problems exhibited by the file structure shown in Figure P1.5.**

**FIGURE P1.5 The File Structure for Problems 4-5**



**5. (10 pts) How would you reorganize the data – i.e., what new files should you create to help eliminate the data redundancies found in the file shown in Figure P1.5?**

**6. (15 pts) Give an example of each of the three types of relationships (1:1, 1:N, M:N).**

**Using Figure P2.4 as your guide, work Problems 7–8. The DealCo relational diagram shows the initial entities and attributes for the DealCo stores, located in two regions of the country.**



**Figure P2.4 The DealCo relational diagram**

**7. (10 pts) Identify each relationship type and write all of the business rules.**

**8. (10 pts) Create the basic Crow’s Foot ERD for DealCo. (You can hand in a hand-drawn**

**diagram for this, but please make sure you have your name noted on the page, if you do so.)**

**9. (20 pts) Write the business rules that are reflected in the ERD shown in Figure P2.15.**

**(Remember that the ERD is always read from the “1” to the “M” side, regardless of the**

**orientation of the ERD components.) Will there be any problems in representing real-world data through this model (i.e., are any of the assumptions problematic in the real-world)?**

**FIGURE P2.15 The Crow’s Foot ERD for Problem 9**

