**Tony Gobeck**

**Part one:**

Table

Description automatically generated

1. How many records does the file contain? How many fields are there per record?

Records: 7

Fields: 5

1. What problem would you encounter if you wanted to produce a listing by city? How would you sole this problem by altering the file structure?

If you attempted to make a listing by city you would end up with duplicates with no way of telling them apart.

I would solve this by maybe including the project code with each city listing

1. What data redundancies do you detect? How could those redundancies lead to anomalies?

There are three redundancies which include the manager name, phone, and address

This may lead to anomalies when trying to find a specific case while sorting by any one of these fields.

**Part two:**

Table

Description automatically generatedUsing your school’s student information system, print your class schedule. The schedule probably would contain the student identification number, student name, class code, class name, class credit hours, class instructor name, the class meeting days and times, and the class room number. Use **Figure P1.11** as a template to complete the following actions.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| STU\_ID | STU-NAME | CLASS-CODE | CLASS-NAME | CLASS-CREDHRS | INSTR-NAME | CLASS-DAY | CLASS-TIME | ROOM |
| 1008413 | Tony Golbeck | CSC-4500 | Database design | 4 | Casey Walters | TTH | 3:15-5:00 | 212 |
| 1004873 | Josh Kellum | CSC-4500 | Database design | 4 | Casey Walters | TTH | 3:15-5:00 | 212 |
| 1005634 | Ricky Sanchez | CSC-4500 | Database design | 4 | Casey Walters | TTH | 3:15-5:00 | 212 |

Just about this whole design is covered in redundancies. Unless you are sorting by student ID or student name you will run into issues finding what you need.