**Answer1:**Figure P1.1 contains 7 records.Each record is composed of 5 fields.

**Answer2:**The problem is “Extensive Programming”.Making changes to an existing file structure can be difficult in a file system environment,it needs extensive programming.Changing just one field in the original file would require a program that:

1. Reads a record from the original file.
2. Transforms the original data to conform to the new structure’s storage requirements.
3. Writes the transformed data into the new file structure.
4. Repeats steps 2 to 4 for each record in the original file.

**Answer3**:Any change to a file structure,no matter how minor,forces modifications in all of the programs that use the data in that file.Modifications are likely to produce errors(bugs),and additional time is spent using a debugging process to find those errors.

**Answer4:**In record1,4 and 6 the same data are stored unnecessarily different places.And also in record3 and 5 the same data are stored unnecessarily different places.