Assignment One

Database Systems and Models

CS1103, 2021F

Complete your answers for the following questions in a word processor and submit them to the lms in pdf format. Use hand-drawn diagrams to create any diagrams for your answers and insert the exported images (cell-phone or other) into the document.

Chapter One Questions

PROJECT_CODE	PROJECT_MANAGER	MANAGER_PHONE	MANAGER_ADDRESS	PROJECT_BID_PRICE
21-5Z	Holly B. Parker	904-338-3416	3334 Lee Rd., Gainesville, FL 37123	16833460
25-2D	Jane D. Grant	615-898-9909	218 Clark Blvd., Nashville, TN 36362	12500000
25-5A	George F. Dorts	615-227-1245	124 River Dr., Franklin, TN 29185	32512420
25-9T	Holly B. Parker	904-338-3416	3334 Lee Rd., Gainesville, FL 37123	21563234
27-4Q	George F. Dorts	615-227-1245	124 River Dr., Franklin, TN 29185	10314545
29-2D	Holly B. Parker	904-338-3416	3334 Lee Rd., Gainesville, FL 37123	25559999
31-7P	William K. Moor	904-445-2719	216 Morton Rd., Stetson, FL 30155	56850000

1. How many records does the file contain? How many fields are there per record?
2. What problem would you encounter if you wished to produce a listing ordered by manager's last name? How could you alter the file structure to solve this problem?
3. Knowing that users would need reports for particular states, area codes or zip-codes (postal codes), how would you (re)structure the file?
4. Identify and discuss the serious data redundancy problems in the file structure.

Chapter Two Questions (from the text)

- Review Questions 2, 11, 12
- Problems 14, 16c, 16d