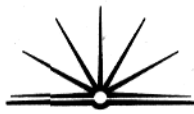a) The file server is the computer that stores all the data and information within the system. It can be acessed by all the other computers. File servers are usually kept away from the others in the network and they do all the backing up for the network.

b) Redundant data is that, that is unecessarily repeated within a database in this case it is the room number and the location. As this database increases in size the redundant data will take up unesecary space in the database. It will slow the transmitting of the database to other computers and make queeries return unecessarily larger.

c) Table 1 computer

Computer No.	Computer RAM	Computer Hard Disk	~~Room No~~
001	64	6	~~9023~~
002	64	10	~~9023~~
003	128	8	~~~~
004	96	8	~~~~
005	256	40	~~9153~~

⊳ primary key

Table 2 Location

Computer No.	Room No.	Phone Extension
001	9023	3227
002	9023	3227
003	9115	1859
004	9115	1859
005	9153	2016.

⊳ foreign key.