

a) The file server is the computer that stores all the data and information within the system. It can be accessed 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 unnecessarily 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 unnecessary space in the database. It will slow the transmitting of the database to other computers and make queries return unnecessarily 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	9115
004	96	8	9115
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