



a) Role of a file server is to store files of which other nodes/terminals save, edit, and open these files. It allows files to be accessed by ~~the~~ nodes connecting to the server, with the availability dependent on access rights for each terminal user.

b) Data redundancy in Mr Ferrano's database is occurring in the Location, Phone Extension, and Room Number columns. Data which refers to a location and related phone extension and room number are all the same. eg. 'Reception' has the same phone extension of '3227' and room number of '9023'.

As this database increases in size, it will take up wasted space which could be used for other data. It may also cause errors from human error ~~in~~ entering the data.



Computer No.	Computer Ram	Computer Hard Drive	Room Number <del>Location</del>
001	64	6	9023
002	64	10	9023
003	128	9	9115
004	96	8	9115
005	256	40	9153
			<del>Foreign</del> Key

Room Number	Location <del>Key</del>	Phone <del>Extension</del> Extension
9023	Reception	<del>3227</del> 3227
9115	Manager's office	1859
9153	Store Room 3	2016
Primary Key		