

a)

number of roles. It stores the Server has а be shared across the network application programs to (provided the user has appropriate access to them Twough the network operating system. server can used / that b be created file were programs available. These files could shared directory or in use's private allocated also controlled within by and contained drive server.

b) The data redundancy in Mr Ferranc's database is occurring as there are more than one computer at particular location, cousing information on location, phone extension and room number to be repeated.

As the autabase increases size data
redundancy con couse the file to take up more
storage space than necessary. Also, if data
needs to be up dated it can cause information
to be updated incorrectly by the computer
or through manual input as computers in the



same location may get confused.

۲.	(Primary key) Computer number	Computer RAM	Computer hard disk	(Foreign key) Location
	001	64	6	Reception
	002	64	(0	Reception
	003	128	8	Manager's office
4-400-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	004	96	8	Manager's office
	005	256	40	Store Room 3

(Primary key) Location	Phone extension	Room number
Reception	3227	9023
Manager's office	1859	9115
Store Room 3	2016	9153