Part One

1. I would ask him, "Wouldn't you rather be a city planner than a CEO?" Then I would say the data organization needs to be changed a bit if its going in a database.

2.

PackID	TagNum	InstallDate	SoftwareCost
AC01	32808	09-14-1995	754.95
DB32	32808	12-03-1995	380.00
DB32	37691	06-15-1995	380.00
DB33	57772	05-27-1995	412.77
WP08	32808	01-12-1996	185.00
WP08	37691	06-15-1995	227.50
WP08	57772	05-27-1995	170.24
WP09	59836	10-30-1995	35.00
WP09	77740	05-27-1995	35.00

3. The primary key would be the PackID and TagNum if the software is never reinstalled. If the software can be reinstalled it would be the PackID, TagNum, and InstallDate.

Part Two

4.

PackID	TagNum	InstallDate	SoftwareCost	SoftwareName	ComputerModel
AC01	32808	09-14-1995	754.95	Virus	Apple
DB32	32808	12-03-1995	380.00	Great	Apple
DB32	37691	06-15-1995	380.00	Great	Dell
DB33	57772	05-27-1995	412.77	SoMI	Windows
WP08	32808	01-12-1996	185.00	Воор	Apple
WP08	37691	06-15-1995	227.50	Воор	Linux
WP08	57772	05-27-1995	170.24	Воор	Windows
WP09	59836	10-30-1995	35.00	Веер	Linux
WP09	77740	05-27-1995	35.00	Веер	Dell

- 5. SoftwareName is dependent on PackID ComputerModel is dependent on TagNum
- 6. The table is not in third normal form because all the attributes in a table are not dependent on the primary key and only the primary key.

Part 3

Computer Systems

ComputerModelID	ComputerModel	
Sys1	Apple	
Sys2	Dell	
Sys3	Windows	
Sys4	Linux	

Software Packs

PackID	SoftwareName	
AC01	Virus	
DB32	Great	
DB33	SoMI	
WP08	Воор	
WP09	Веер	

Software Installs

InstallID	PackID	TagNum	InstallDate	SoftwareCost
1	AC01	32808	09-14-1995	754.95
2	DB32	32808	12-03-1995	380.00
3	DB32	37691	06-15-1995	380.00
4	DB33	57772	05-27-1995	412.77
5	WP08	32808	01-12-1996	185.00
6	WP08	37691	06-15-1995	227.50
7	WP08	57772	05-27-1995	170.24
8	WP09	59836	10-30-1995	35.00
9	WP09	77740	05-27-1995	35.00

- 7. The primary key for Computer Systems is ComputerModelID. The primary key for Software Packs is PackID. The primary key for Software Installs is InstallID.
- 8. SoftwareName is dependent on PackID
 ComputerModel is dependent on TagNum
 InstallDate, PackID, TagNum, and SoftwareCost are dependent on InstallID
- 9. The new tables are in third normal form because all the attributes in a table are dependent on the primary key and only the primary key.

10.

