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Database Management

Lab 7

**Part One:**

1. I tell him that the data is missing a lot of context. With the data we have I would not know what is being sold, and in what kind of currency it is being sold in.

2.

PackID	TagNum	InstallDate	SoftwareCost
AC01	32808	09-13-1995	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	57222	05-27-1995	170.24
WP09	59836	10-30-1995	35.00
WP09	77740	05-27-1995	35.00

3. The primary key is the PackID and TagNum.

**Part Two**

4.

SwfName	CMPTModel	PackID	TagNum	InstallDate	SoftwareCost
Zork	Commodore 64	AC01	32808	09-13-1995	754.95
Portal	Atari 720	DB32	32808	12-03-1995	380.00
E.T	Sega Genesis	DB32	37691	06-15-1995	380.00
Hercules	Commodore 64	DB33	57772	05-27-1995	412.77
Nightshade: The Claws of Heugh	NES	WP08	32808	01-12-1996	185.00
Dino City	SNES	WP08	37691	06-15-1995	227.50
Conan the Barbarian	PS1	WP08	57222	05-27-1995	170.24
Charlies Angels	Apple	WP09	59836	10-30-1995	35.00
Monster Party	Apple2	WP09	77740	05-27-1995	35.00

5.  $\text{PackID} \rightarrow \text{SwfName}$   
 $\text{TagNum} \rightarrow \text{CmptModel}$
6. There are multiple keys that are functionally dependent on other keys. In order for it to be in third normal form, these dependencies cannot be there.
7. PackID and TagNum.
8.  $\text{PackID} \rightarrow \text{SwfName}$   
 $\text{TagNum} \rightarrow \text{CmptModel}$   
 $\text{CMPTModel} \rightarrow \text{SoftwareCost}$
9. The tables are now in normal form because there are no longer functional dependencies between keys. Each table is now only dependent on a single key as it should be.

