| PackageID | TagNumber | InstallDate | SoftwareCostUSD |
|-----------|-----------|-------------|-----------------|
| AC01 | 32808 | 09-13-2005 | 754.95 |
| DB32 | 32808 | 12-03-2005 | 380.00 |
| | 37691 | 06-15-2005 | 380.00 |
| DB33 | 57772 | 05-27-2005 | 412.77 |
| WP08 | 32808 | 01-12-2006 | 185.00 |
| | 37691 | 06-15-2005 | 227.50 |
| | 57222 | 05-27-2005 | 170.24 |
| WP09 | 59836 | 10-30-2005 | 35.00 |
| | 77740 | 05-27-2005 | 35.00 |

1. I think the collection of data is thorough, I just think there might be better ways to display this data to make everything more consistent and less confusing. Like there are tag numbers that are the same for different packages, and same dates of installation.

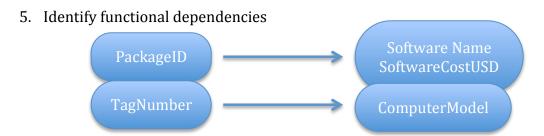
2.

| PackageID | TagNumber | InstallDate | SoftwareCostUSD |
|-----------|-----------|-------------|-----------------|
| AC01 | 32808 | 09-13-2005 | 754.95 |
| DB32 | 32808 | 12-03-2005 | 380.00 |
| DB32 | 37691 | 06-15-2005 | 380.00 |
| DB33 | 57772 | 05-27-2005 | 412.77 |
| WP08 | 32808 | 01-12-2006 | 185.00 |
| WP08 | 37696 | 06-15-2005 | 227.50 |
| WP08 | 57222 | 05-27-2005 | 170.24 |
| WP09 | 59836 | 10-30-2005 | 35.00 |
| WP09 | 77740 | 05-27-2005 | 35.00 |

3. The Primary Key is the PackageID

4. Add two columns

| PackageID | TagNumber | InstallDate | SoftwareCostUSD | SoftwareName | ComputerModel |
|-----------|-----------|-------------|-----------------|------------------|---------------|
| AC01 | 32808 | 09-13-2005 | 754.95 | Adobe Studio 6 | MacBook Pro |
| DB32 | 32808 | 12-03-2005 | 380.00 | Microsoft Office | MacBookPro |
| | 37691 | 06-15-2005 | 380.00 | Microsoft Office | Lenovo T540 |
| DB33 | 57772 | 05-27-2005 | 412.77 | Oracle | Gateway NV52 |
| WP08 | 32808 | 01-12-2006 | 185.00 | Zork | MacBookPro |
| | 37691 | 06-15-2005 | 227.50 | Zork | Lenovo T540 |
| | 57222 | 05-27-2005 | 170.24 | Zork | Gateway NV52 |
| WP09 | 59836 | 10-30-2005 | 35.00 | VirtualDJ Pro | MacBook Air |
| | 77740 | 05-27-2005 | 35.00 | VirtualDJ Pro | Lenovo Yoga 3 |



6. This isn't in 3NF because the table would show not show the computer models in the table—that would be a different table. The first table would include the tag number, and then a separate table would show the tag number with the associated computer model. There are two primary key's in this table and the non-prime attributes are not all dependent on them.

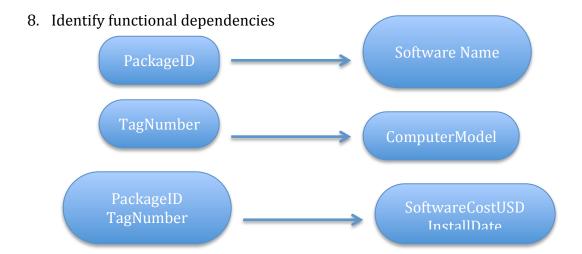
7. 3NF

| PackageID | SoftwareName | SoftwareCostUSD | InstallDate | TagNumber |
|-----------|------------------|-----------------|-------------|-----------|
| AC01 | Adobe Studio 6 | 754.95 | 09-13-2005 | 32808 |
| DB32 | Microsoft Office | 380.00 | 12-03-2005 | 32808 |
| | Microsoft Office | 380.00 | 06-15-2005 | 37691 |
| DB33 | Oracle | 412.77 | 05-27-2005 | 57772 |
| WP08 | Zork | 185.00 | 01-12-2006 | 32808 |
| | Zork | 227.50 | 06-15-2005 | 37691 |
| | Zork | 170.24 | 05-27-2005 | 57222 |
| WP09 | VirtualDJ Pro | 35.00 | 10-30-2005 | 59836 |
| | VirtualDJ Pro | 35.00 | 05-27-2005 | 77740 |

| TagNumber | ComputerModel |
|-----------|---------------|
| 32808 | MacBook Pro |
| 37691 | Lenovo T540 |
| 57772 | Gateway NV52 |
| 59836 | MacBook Air |
| 77740 | Lenovo Yoga 3 |

Identify Primary Keys

Primary Key: PackageID Primary Key: TagNumber



9. The new tables are in 3NF because now the functional dependences are apparent in the tables. The package ID wasn't unique for the computer models. Now, their in a table in which the Tag Number is unique to the computer model

