

1. I would say spreadsheet contains useful data, but that it should be reorganized to make it appropriate for the database.
- 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	37691	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 PackageID+TagNumber

4.

PackageID	TagNumber	InstallDate	SoftwareCostUSD	SoftwareName	CompModel
AC01	32808	09-13-2005	754.95	Dragon Nest	Toshiba
DB32	32808	12-03-2005	380.00	Photoshop	Toshiba
DB32	37691	06-15-2005	380.00	yWriter	Toshiba
DB33	57772	05-27-2005	412.77	Photoshop	Toshiba
WP08	32808	01-12-2006	185.00	ScreenwriterPro	Toshiba
WP08	37691	06-15-2005	227.50	yWriter	Toshiba
WP08	57222	05-27-2005	170.24	Zingbox	Toshiba
WP09	59836	10-30-2005	35.00	Photoshop	Toshiba
WP09	77740	05-27-2005	35.00	Photoshop	Toshiba

5. PackageID → SoftwareName
TagNumber → CompModel
PackageID, TagNumber → InstallDate, SoftwareCostUSD
6. This table is not in 3rd normal form because it is not even in 2nd normal form. The table has partial key dependencies. CompModel is only dependent on TagNumber and SoftwareName is

only dependent on PackageID, they are not dependent on the primary key (PackageID, TagNumber).

Computers

TagNumber	CompModel
32808	Toshiba
37691	Toshiba
57772	Toshiba
57222	Toshiba
59836	Toshiba
77740	Toshiba

Software

PackageID	SoftwareName
AC01	Dragon Nest
DB32	Photoshop
DB33	Photoshop
WP08	ScreenwriterPro
WP09	Photoshop

Installations

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	37691	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

7. Computers PK: TagNumber

Software PK: PackageID

Installation PK: (PackageID, TagNumber)

8. TagNumber → CompModel

PackageID → SoftwareName

(PackageID, TagNumber) → InstallDate, SoftwareCostUSD

9. This is in 3rd Normal Form because there are no partial key dependencies and there are no multi key dependencies. Each non-key entity in the table depends only on the primary key.