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Part 1:

1. It looks good Mr. Cosmo Kramer, but why are the costs for software package WP08 different for each computer tag number. If it is the same software package, shouldn't they cost the same?
2. 1NF

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 composite primary key is **PackageID and TagNumber**

Part 2:

1.1NF

PackageID	TagNumber	InstallDate	SoftwareCostUSD	PName	CModel
AC01	32808	09-13-2005	754.95	Dog	Apple
DB32	32808	12-03-2005	380.00	Cat	Apple
DB32	37691	06-15-2005	380.00	Cat	Dell
DB33	57772	05-27-2005	412.77	Zebra	HP
WP08	32808	01-12-2006	185.00	Bison	Apple
WP08	37691	06-15-2005	227.50	Bison	Dell
WP08	57222	05-27-2005	170.24	Bison	Lenovo
WP09	59836	10-30-2005	35.00	Chicken	Apple
WP09	77740	05-27-2005	35.00	Chicken	Lenovo

2.

TagNumber → CModel

PackageID → PName

PackageID and TagNumber → SoftwareCostUSD

PackageID and TagNumber → InstallDate

3.

Not all of the columns depend directly on the composite primary key. For example, PName is not dependent on TagNumber. So, It is not dependent on the key, the whole, and nothing but the key. Only dependent on part of the key, which is PackageID.

Part 3:

1.

Primary Keys:

Packages: **PackageID**

Computers: **TagNumber**

Installations: Composite key of **PackageID and TagNumber**

2.

TagNumber → CModel

PackageID → PName

PackageID and TagNumber → SoftwareCostUSD

PackageID and TagNumber → InstallDate

3.

The new tables are in third normal form because each table has only columns that are dependent on the key, the whole, and nothing but the key.

4. E.R Diagram:

Packages

PackageID	PName
AC01	Dog
DB32	Cat
DB33	Zebra
WP08	Bison
WP09	Chicken

Computers

TagNumber	CModel
32808	Apple
37691	Dell
57772	HP
57222	Lenovo
59836	Apple
77740	Lenovo

Installations

PackageID	TagNumber	InstallDate	Software CostUSD
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
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