

Chris Koriniskie

Database Systems

Lab 7: Normalization 1

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Part One:

1. I would say it sucks. It does not have all the information we are looking for. Essentially it is useless at this point.
- 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 TagNumber.

Part Two:

- 4.

PackageID	TagNumber	InstallDate	SoftwareCostUSD	PackName	CompModel
AC01	32808	09-13-2005	754.95	Zork	IBM
DB32	32808	12-03-2005	380.00	Portal	Apple
DB32	37691	06-15-2005	380.00	Office	Dell
DB33	57772	05-27-2005	412.77	Norton	Acer
WP08	32808	01-12-2006	185.00	Portal	HP
WP08	37691	06-15-2005	227.50	TurboTax	Dell
WP08	57222	05-27-2005	170.24	Photoshop	Apple
WP09	59836	10-30-2005	35.00	Spotify	Lenovo
WP09	77740	05-27-2005	35.00	Zork	Toshiba

5. TagNumber is dependent on CompModel and PackageID is dependent on PackName.
6. It is not in 2NF thus not in 3NF. They are dependent on a more than one key. Tables should only rely on one key.
7. There should be three tables: Packages, ComputerModels, and Software.

Primary Keys:

Packages: PackageID

ComputerModel: TagNumber

Software: PackageID and TagNumber

8. Packages: PackageID:PackName

ComputerModel: TagNumber: CompModel

Software: PackageID, TagNumber: InstallDate, SoftwareCostUSD

9. They are in 3NF because they are in 2NF and 1NF. 1NF has all atomic data and 2NF does not have more than one key dependency.

10.

