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Database Systems Lab 7 – Normalization One

***Part One***

1. The spreadsheet shown has pretty column names however, there are some under the tag number that have two values which goes against the First Normal Form rule, as well some tag numbers being repeated which makes it unable to be the primary key.
2. Here is what a table fitting the first normal rule should look like:

|  |  |  |  |
| --- | --- | --- | --- |
| PackageID | TagNumber | InstallDate | SoftwareCostUSD |
| AC01 | 32808 | 09-13-2005 | 754.95 |
| DB32 | 32808 | 12-03-2005 | 380.00 |
| DB32A | 37691 | 06-15-2005 | 380.00 |
| DB33 | 57772 | 05-27-2005 | 412.77 |
| WP08 | 32808 | 01-12-2006 | 185.00 |
| WP08A | 37691 | 06-15-2005 | 227.50 |
| WP08B | 57222 | 05-27-2005 | 170.24 |
| WP09 | 59836 | 10-30-2005 | 35.00 |
| WP09A | 77740 | 05-27-2005 | 35.00 |

1. The primary key of this table would be the PackageID as it only would return one specific row.

***Part Two***

New Table with more columns.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PackageID | TagNumber | InstallDate | SoftwareCostUSD | ComputerModel | PackageName |
| AC01 | 32808 | 09-13-2005 | 754.95 | Apple | Zork |
| DB32 | 32808 | 12-03-2005 | 380.00 | IBM | Portal |
| DB32A | 37691 | 06-15-2005 | 380.00 | PC | CounterStrike |
| DB33 | 57772 | 05-27-2005 | 412.77 | IBM | PayDay |
| WP08 | 32808 | 01-12-2006 | 185.00 | Apple | Bond |
| WP08A | 37691 | 06-15-2005 | 227.50 | PC | GoldFinger |
| WP08B | 57222 | 05-27-2005 | 170.24 | Apple | GoldenGun |
| WP09 | 59836 | 10-30-2005 | 35.00 | IBM | GoldenEye |
| WP09A | 77740 | 05-27-2005 | 35.00 | PC | Meow |

1. Above Table.
2. PackageID is the uniquie value, so if you serach the Id you will get the other information about the package.