Danny Mulick

Lab 7, Normalization Part 1

1. Part One
   1. After being shown this spreadsheet, I am impressed with the amount of work that you have put into this project. Your organization for your project is very neat but I have some changes that I wish to make as a part of my consultation.
   2. Table shown below

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |

* 1. The primary key of this table would be the composite key of packageID and tagNumber.

1. Part Two
2. Table for part 2, question 1 is shown below

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **packageID** | **tagNumber** | **installDate** | **softwareCostUSD** | **packageName** | **computerModel** |
| AC01 | 32808 | 09-13-2005 | 754.95 | Notepad++ | Mac |
| DB32 | 32808 | 12-03-2005 | 380.00 | Photoshop | Mac |
| DB32 | 37691 | 06-15-2005 | 380.00 | Photoshop | Dell |
| DB33 | 57772 | 05-27-2005 | 412.77 | PostgreSQL | HP |
| WP08 | 32808 | 01-12-2006 | 185.00 | Intellij | Lenovo |
| WP08 | 37691 | 06-15-2005 | 227.50 | Intellij | Gigabyte |
| WP08 | 57222 | 05-27-2005 | 170.24 | Intellij | MSI |
| WP09 | 59836 | 10-30-2005 | 35.00 | Apache | Asus |
| WP09 | 77740 | 05-27-2005 | 35.00 | Apache | Sony |

1. Functional Dependencies
   1. packageID 🡪 packageName
   2. tagNumber 🡪 computerName
   3. packageID, tagNumber 🡪 installDate, softwareCostUSD