Steven Bacdayan

11/1/14

1) First thing I notice is that your data isn't atomic. In other words, there are multiple intersections hold more than one value.

2)

| PackID | TagNum | InstallDate | SoftwareCost |
|--------|--------|-------------|--------------|
| AC01 | 32808 | 09-13-1995 | 745.95 |
| DB32 | 32808 | 12-03-1995 | 380.00 |
| DB32 | 37691 | 06-15-1995 | 380.00 |
| DB33 | 57772 | 05-27-1995 | 412.77 |
| WP08 | 32808 | 01-12-1996 | 185.00 |
| WP08 | 37691 | 06-15-1995 | 227.50 |
| WP08 | 57222 | 05-27-1995 | 35.00 |
| WP09 | 59836 | 10-30-1995 | 35.00 |
| WP09 | 77740 | 05-27-1995 | 35.00 |

3) PackID and TagNum

4)

| PackID | PackName | TagNum | Model | InstallDate | SoftwareCost |
|--------|-------------|--------|---------|-------------|--------------|
| AC01 | Halo | 32808 | HP | 09-13-1995 | 745.95 |
| DB32 | COD | 32808 | HP | 12-03-1995 | 380.00 |
| DB32 | COD | 37691 | Dell | 06-15-1995 | 380.00 |
| DB33 | Half-Life | 57772 | Apple | 05-27-1995 | 412.77 |
| WP08 | Borderlands | 32808 | Dell | 01-12-1996 | 185.00 |
| WP08 | Borderlands | 37691 | Dell | 06-15-1995 | 227.50 |
| WP08 | Borderlands | 57222 | Apple | 05-27-1995 | 35.00 |
| WP09 | Sonic | 59836 | Leenovo | 10-30-1995 | 35.00 |
| WP09 | Sonic | 77740 | Leenovo | 05-27-1995 | 35.00 |

⁵⁾ PackID -> {PackName,SoftwareCost) TagNum -> Model

⁶⁾ Not every non-primary column is reliant on the primary key. For example, model is dependent on tagNum.

Packages Table

| PackID- PK | PackName | SoftwareCost |
|-------------------|-------------|--------------|
| AC01 | Halo | 745.95 |
| DB32 | COD | 380.00 |
| DB32 | COD | 380.00 |
| DB33 | Half-Life | 412.77 |
| WP08 | Borderlands | 185.00 |
| WP08 | Borderlands | 227.50 |
| WP08 | Borderlands | 35.00 |
| WP09 | Sonic | 35.00 |
| WP09 | Sonic | 35.00 |

Computers Table

| TagNum- PK | Model |
|-------------------|---------|
| 32808 | HP |
| 32808 | HP |
| 37691 | Dell |
| 57772 | Apple |
| 32808 | Dell |
| 37691 | Dell |
| 57222 | Apple |
| 59836 | Leenovo |
| 77740 | Leenovo |

Installations Table

| PackID- PK | TagNum- PK | InstallDate |
|-------------------|-------------------|-------------|
| AC01 | 32808 | 09-13-1995 |
| DB32 | 32808 | 12-03-1995 |
| DB32 | 37691 | 06-15-1995 |
| DB33 | 57772 | 05-27-1995 |
| WP08 | 32808 | 01-12-1996 |
| WP08 | 37691 | 06-15-1995 |
| WP08 | 57222 | 05-27-1995 |
| WP09 | 59836 | 10-30-1995 |
| WP09 | 77740 | 05-27-1995 |

- 7) Packages Tables PK=PackID, Computers Table PK=TagNum, Installations table PK= PackID, TagID
- 8) In Packages Tables PackID -> {PackName, SoftwareCost}

In Computers Table Model TagNum -> Model

In Installations Table PackID, TagNum -> InstallDate

9) In every table, non-primary key attributes are dependent on the primary key.

10)

