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CMPT 308

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Lab 7

Part one:

1) The data is there, but it is messy. It needs to be more consistent with less redundancy. It needs to be normalized.

2) 1NF Display!!

PackID	TagNum	PackID	SoftwareCost	PackID	InstallDate
AC01	32808	AC01	754.95	AC01	9/13/1995
DB32	32808	DB32	380	DB32	12/3/1995
DB32	37691	DB32	380	DB32	6/15/1995
DB33	57772	DB33	412.77	DB33	5/27/1995
WP08	32808	WP08	185	WP08	1/12/1996
WP08	37691	WP08	227.5	WP08	6/15/1995
WP08	57222	WP08	170.24	WP08	5/27/1995
WP09	59836	WP09	35	WP09	10/30/1995
WP09	77740	WP09	35	WP09	5/27/1995

3) The primary key is "PackID"

Part two:

4)

PackID	PackName	CompModel	TagNum	SoftwareCost	InstallDate
AC01	Zork	HP	32808	754.95	9/13/1995
DB32	Portal	Apple	32808	380	12/3/1995
DB32	Ding	Samsung	37691	380	6/15/1995
DB33	Dong	Lenovo	57772	412.77	5/27/1995
WP08	Bruh	Asus	32808	185	1/12/1996
WP08	Software	Dell	37691	227.5	6/15/1995
WP08	Development	Asus	57222	170.24	5/27/1995
WP09	Two	Lenovo	59836	35	10/30/1995
WP09	Hi	Apple	77740	35	5/27/1995

5) The PackId for the PackName is a dependency. When there is data added to Packname it is given a PackID so it has its own value.

6) This is not in third normal form because there is duplicate data, its not in second normal form, and the attributes in the table are not dependent on the primary key.

Part three:

7) Primary Keys: PackID, TagNum, InstallDate

8) Functional dependencies:

- PackID – PackageName
- CompModel – TagNum
- InstallDate – SoftwareCost - PackID

9) The tables are in third normal form because there is no duplicate data, it is in second normal form, and the attributes are actually dependent on the primary key.

10) ER Diagram!

