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- 1) The data is not organized and would be hard to work with. It needs to be normalized to be consistent, eliminate any instances of redundancy and make it more flexible.

2)

TAG		Software			
PACKID	NUM	PACKID	Cost	PACKID	Install Date
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) Primary Key: PACK ID

4)

PACKID	PackageName	Model	TAG NUM	Software Cost	Install Date
AC01	Zork	Apple	32808	754.95	9/13/1995
DB32	Portal	Hp	32808	380	12/3/1995
DB32	Volix	Dell	37691	380	6/15/1995
DB33	Zoa	Lenovo	57772	412.77	5/27/1995
WP08	Boa	Alienware	32808	185	1/12/1996
WP08	Noah	Monkey	37691	227.5	6/15/1995
WP08	Daniel	Samsung	57222	170.24	5/27/1995
WP09	Craig	Samsung	59836	35	10/30/1995
WP09	Awesome	Random	77740	35	5/27/1995

- 5) A dependency would be the PACK ID on the PackageName because once it is given a package name it is given an ID so it can be identified with a unique numeric value.
- 6) The database is not in third normal form because it does not meet the conditions that require it, it is not in second normal form so it must be in first normal form.
- 7) Primary Keys: PACK ID, TagNum, Install Date
- 8) PACK ID – Package Name
MODEL – TAGNUM
INSTALL DATE – SOFTWARE COST – PACKID
- 9) The new tables are now in third normal form because they meet the respective standards of being in second normal form and it now has a transitive dependency.
- 10)

