

--Michael Shershin
--Database management
--Lab 7

--Part One

1. "I should have asked for more money if I knew I would be dealing with this." I would say that in my head then go on to say in the real world "This looks like a great starting point now to make it so my professor would be happy with it."

2.

trackID	packID	tagNum	installDate	costUSD
t0001	AC01	32808	09-13-1995	754.95
t0002	DB32	32808	12-03-1995	380.00
t0003	DB32	37691	06-15-1995	380.00
t0004	DB33	57772	05-27-1995	412.77
t0005	WP08	32808	01-12-1996	185.00
t0006	WP08	37691	06-15-1995	227.50
t0007	WP08	57222	05-27-1995	107.24
t0008	WP09	59836	10-30-1995	35.00
t0009	WP09	77740	05-27-1995	35.00

3. I added the primary key of trackID because I felt that packID would be a more suitable foreign key and same with tagNum.

--Part Two

4.

trackID	packID	softwareName	tagNum	computerModel	installDate	costUSD
t0001	AC01	Minecraft	32808	HP	09-13-1995	754.95
t0002	DB32	Zelda	32808	HP	12-03-1995	380.00
t0003	DB32	Zelda	37691	Apple	06-15-1995	380.00
t0004	DB33	SmashBros	57772	Dell	05-27-1995	412.77
t0005	WP08	Office	32808	HP	01-12-1996	185.00
t0006	WP08	Office	37691	Apple	06-15-1995	227.50
t0007	WP08	Office	57222	Dell	05-27-1995	107.24
t0008	WP09	Portal	59836	Alienware	10-30-1995	35.00
t0009	WP09	Portal	77740	ASUS	05-27-1995	35.00

5. The functional dependencies are the software with their ids and the computer models with their ids. Ex: DB32 = Zelda, WP08 = Office, WP09 = Portal, 32808 = HP, 37691 = Apple, 57772 = Dell.
6. This table is not in 3nf because it has way too many functional dependencies, and the table is not in 2nf because of the columns software and computerModel.

--Part Three

7. trackID, packID, tagNum
8. There should not be any functional dependencies if the table is to be in 3nf.
9. This may sound like a bull answer but it is the only way I truly know how to explain it. The tables are in 3nf because they meet all the qualifications of being in 2nf and having no transitive functional dependencies.
- 10.

