Part 1-

1. I would reply saying that this is a good start for collecting data, but it does not satisfy the 3 normal form rules that are necessary for a quality database. Now that you hired me, I will help make this database satisfy them.

2.
1NF

Package ID	Tag Number	Install Date	SoftwareCostUSD
AC01	32808	9/13/05	754.95
DB32	32808	12/3/05	380.00
DB32	37691	6/15/05	380.00
DB33	57772	5/27/05	412.77
WP08	32808	1/12/06	185.00
WP08	37691	6/15/05	227.50
WP08	57222	5/27/05	170.24
WP09	59836	10/30/05	35.00
WP09	77740	5/27/05	35.00

3. The primary key in this table is a composite key consisting of Package ID and Tag Number. These are the two that must be used in order to stay consistent with their business model.

Part 2-

1.

Package ID	Tag Number	Install Date	SoftwareCostUSD	Package Name	Computer Model
AC01	32808	9/13/05	754.95	Package 1	Lenovo
DB32	32808	12/3/05	380.00	Package 2	Lenovo
DB32	37691	6/15/05	380.00	Package 2	Mac
DB33	57772	5/27/05	412.77	Package 3	IBM
WP08	32808	1/12/06	185.00	Package 4	HP
WP08	37691	6/15/05	227.50	Package 4	Mac
WP08	57222	5/27/05	170.24	Package 4	Acer
WP09	59836	10/30/05	35.00	Package 5	Toshiba
WP09	77740	5/27/05	35.00	Package 5	Samsung

2. Functional Dependencies
   a. Package ID determines Package Name
   b. Tag Number determines computer model
   c. Package name and tag number together determine installation date and Cost
3. This table is not in third normal form because it is not in second normal form

Part 3-

1. Primary Keys
   a. The primary key for the software table is Package ID
   b. The primary key for the hardware table is Tag Number
   c. The primary key for the Inventory table is a composite key of Package ID and Tag Number.
2. Table relationships
   a. Software table has a one to many relationship with inventory
   b. Hardware has a one to many relationship with inventory
3. The tables are in third normal form because they are in second normal form and all the attributes in a table are determined by only the candidate key of that table and not by any non-prime attributes.
4. Entity Relationship Diagram