1. Before deleting our customer we have to make sure to delete records from anywhere in the database this customer is referenced. First a customer has an address, so we will have to delete that address. Next a customer must have placed orders so “customer” is referenced in the orders table. Every order has some order items, so to correctly delete a customer we have to make sure that all order entries and related order\_items entries are also deleted.
2. From the question we can see that “Vendor B.” has been purchased by another “Vendor A.”. This “Vendor A.” has also changed their name. We will need to reflect these changes in the database and here is how we will do that.
   1. First we will update the vendors record by updating the name of “Vendor A.”.
   2. Next before deleting “Vendor B.” from the DB we need to make sure all relevant invoices in the database where “Vendor B.” are referenced are updated to now point to “Vendor A.”. We will do that by updating invoices where “B.”s id is used to “A”s id.
   3. Now we delete “Vendor B.”s record from the vendor table.
3. This is a similar process to No.2, we have two table invoice\_line\_items and invoices. We are deleting an invoice so we have to make sure any related invoice\_line\_items are also deleted before we delete the invoice from the db.
   1. Setting up privileges for users of the guitar\_shop db would require that each user gets the appropriate type and level of privileges that they require to do their job. I assume in this case that I am the administrator and therefore I am just allocating privileges to workers using the guiter\_shop db. They would not get privileges to grant roles etc, and would only receive object privileges pertaining to the guitar\_shop\_db. They would not receive global privileges, so they couldn’t access the mysql db.
   2. If we assign users to roles we can easily give them only the privileges we want. We could setup developer, manager, and user roles. The developer would get the basic the basic privileges for working with data, and also the privileges for modifying the database structure. We wouldn’t limit them solely to the guitar\_shop\_db, however we might not give them access to the mysql db. The manager would get the SELECT, INSERT, UPDATE, DELETE abilities and limit their privilege level to the entire db. We would also give them the WITH GRANT OPTION, so they could assign their object privileges to other users without us, the admin having to give new users new roles. We would not give them WITH ADMIN OPTION since only we should assign this role to others. We would also make a USER role with the same object privileges as the manager, however we could limit their access to any given table in the guitar\_shop db depending on what their job would be.