9. Transforming Table 5 (shipping manifest) to relations:
   
a. Total weight is a derived attribute and can be calculated from weight and quantity. Therefore it is not shown here as part of the relational schema. Relational schema shown below:

   ![Relational schema diagram]

b. First normal form (1NF)

c. 3NF relations

   ![3NF relations diagram]
d. **3NF relations with referential integrity and functional dependencies shown**
e. Relational schema shown in Visio notation