Dataset 1 (DS 1):

Sales Agent Number (8 Chars Numeric)

Customer Number (8 Chars Numeric)

+Order Number (6 Chars Numeric)

+Item Number (6 Chars Numeric)

+Quantity (6 Chars Integer)

+Special Needs (40 Chars Alphanumeric)

Dataset 2 (DS 2):

Sales Agent Number (8 Chars Numeric)

Customer Number (8 Chars Numeric)

+Order Number (6 Chars Numeric)

+Item Number (6 Chars Numeric)

+Quantity (6 Chars Integer)

+Special Needs (40 Chars Alphanumeric)

Commission (6 Chars Floating Point)

Total Sales (8 Chars Floating Point)

Dataset 3 (DS 3):

Sales Agent Number (8 Chars Numeric)

Customer Number (8 Chars Numeric)

+Order Number (6 Chars Numeric)

+Item Number (6 Chars Numeric)

+Quantity (6 Chars Integer)

+Special Needs (40 Chars Alphanumeric)

Commission (6 Chars Floating Point)

Total Sales (8 Chars Floating Point)

Figure 2-20. Atomic Sales and Order Application Three-Tier Model

Do It

1. When must you convert numbers to numeric form (such as Integer) for storage within a database?

2. Why use datasets to pass information between tiers?

3. What items have been missed or ignored in the case example?