5.61 Part C

* Attributes
  1. A product can’t exist without ingredients.
  2. A supplier can exist without providing ingredients.
  3. All ingredients don’t have to be associated with a supplier.
  4. Not all ingredients are used in products.
  5. There are multiple suppliers for an ingredient.

Diagram

Description automatically generated

The Morgan Importing case, part A

* Tables
  1. Organization(OrganizationID, OrganizationName)
  2. PurchasingAgents(AgentID, AgentName, AgentOrganizationID)
  3. PurchaseStores(StoreID(pk), StoreName, StoreAddress, StorePhoneNumber, StoreWebsite, StoreEmail)
  4. StoreItems(ItemID, ItemName, ItemUnitPrice, ItemQuantity, StoreID)
  5. PurchaseDetails(PurchaseDate, PurchaseItemID, PurchaseStoreID, PurchaseAgentID, PurchaseQuantity, PurchasePrice)
  6. Shippers(ShipperID, ShipperName, ShipperAddress, ShipperPhoneNumber, ShipperWebsiteAddress, ShipperEmailID)
  7. ShipmentDetails(ShipmentDate, ShipmentItemID, StoreID, ShipperID, ItemQuantity, ItemPrice, ItemInsuranceValue)
  8. ReceivingClerks(ClerkID, ClerkName, ClerkOrganizationID)
  9. ShipmentReceipts((ReceivingDateTime, ReceivingClerkID), ShipmentCondition)

Diagram

Description automatically generated