```
SupplyChainManager
+DBURL: String
+USERNAME: String
+PASSWORD: String
-dbConnect : Connection
-results : ResultSet
+SupplyChainManager(databaseURL: String, username: String, password: String)
-initializeConnectino()
+run(name: String, tableName: String, quantity: String): boolean
-deleteID(id : String, tableName : String)
+selectItem(name: String, tableName: String): ArrayList<Item>
+selectManufacturers(): ArrayList<String>
                                                                                                                                NoValidCombinationsException
                                                                                                        1
-newItem(result : ResultSet, tableName : String) : Item
                                                                                                                       -serialVersionUID : long = 1L
-selectBestCombination(items : ArrayList<Item>) : ArrayList<Item>
                                                                                                                       +NoValidCombinationsException(message : String)
-getPriceForCombinations(arr : ArrayList<ArrayList<Item>>) : ArrayList<Integer>
                                                                                                                  0..*
-removeDuplicates(toChange : ArrayList<ArrayList<Item>>) : ArrayList<ArrayList<Item>>
-createCombinations(parts : ArrayList<ArrayList<Item>>) : ArrayList<ArrayList<Item>>
-createCombinations(index: int, combos: ArrayList<ArrayList<Item>>): ArrayList<ArrayList<Item>>
                                                                                           1
                         0..*
                                     Item
                                                                                                                                     OutFile
-id : String
                                                                                                         -Request : String
-type : String
                                                                                                         -Quantity: String
-typerVariables : String[]
                                                                                                         -IDs : ArrayList<String>
-price : String
                                                                                                         -TotalPrice : String
-manuID : String
                                                                                                        -filename : String = "OutputFile"
+Item()
                                                                                                        +OutFile(reg : String, qua : String, ids : ArrayList<String>)
+Item(id : String, type : String, variables : String[], price : String, manuID : String)
                                                                                                         +OutFile(reg: String, que: String, companies: ArrayList<String>)
+getId(): String
                                                                                                        +writeOutFile()
+getType() : String
                                                                                                         +writeNoneAvailable(name: String)
+getTypeVariables(): String[]
+getPrice(): String
+getManuID(): String
```