



Assumptions:

- 1) Each book is supplied by one or several suppliers, each supplier may supply many books. The identifier of a book is BookTitle, and other attributes: Edition, Condition, title, author(s), publisher, ISBN, Copyright(year), binding, and Signed.
- 2) Supplier has identifier SupplierID and the other attributes: supplier's Name, Address, Email, and Phone.
- 3) When Nile.com buys a book from a supplier, the book becomes Nile's Book Inventory and BookID and Purchase Cost are recorded.
- 4) Each book may have zero or one book inventory in Nile.com. Each book inventory has one and only one book.
- 5) Each customer creates wish list which contains at least one or many books which may or may not exist in Nile's book inventory.
- 6) When customer submits order paid by credit card, all the ordered books will become Nile's book inventory. An order may contain one or more book inventories; each book inventory is included in none or one order.
- 7) The identifier of order is OrderID, the other attributes: shipping method, estimated shipping date, credit card number, ShipTo and amount.
- 8) The identifier of customers is CustomerID, the other attributes: customer name, phone number, address, and email.
- 9) The identifier of wish list is wish list ID. Wish Lists must be created by customers, and customers can create zero or many wish lists.
- 10) When order is paid and submitted, this order is processed by at least one employee. Each employee may process zero or many orders.
- 11) The identifier of employee is EmployeeID. The other attributes: employee name, payroll address.
- 12) Then employee creates Shipment. One shipment is tied to exactly one order
- 13) The identifier of shipment is ShipmentID. The other attributes: arrival date, arrival time, shipping date, and tracking number.
- 14) Each employee may create none or many shipments, each shipment is created by exactly one employee.
- 15) Then shipment is executed by exactly one shipping company. Each shipping company may execute none or many shipments.
- 16) The identifier of shipping company is Shipping company ID. The other attributes: shipping company name, contact, phone number, email, address.

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