Shelby Simpson; CS205-01; Spring 2018

**Normalized Logical Schema(Version 2)**

The purpose of this file is to normalize the logical schema.

Based on: Logical Schema(Version 4)

Changes: The original logical schema did not need to be altered during the normalization process. There weren’t any multi-valued attributes in the ER diagram and all composite attributes were already unbundled. All non-key and key attributes were already determined by a complete candidate key.

Part (PartID, Name\*, Unit Cost\*, ShipmentName, ComponentPartName)

*ShipmentName represents the Contains relationship; ComponentPartName represents the BOM relationship*

Technician (TechnicianID, Name\*, Street, City, State, Zip, CardName)

*CardName represents relationship Uses*

Order (OrderID, [OrderTotal]\*, CustomerID\*, PartID\*)

*CustomerID references Customer.CustomerID; PartID references Part.PartID*

ForPart (PartID, OrderID, Quantity\*, [LineTotal]\*)

*PartID references Part.PartID; OrderID references Order.OrderID*

Assembly Card (CardNumber, OrderID\*, Exact Date, OrderName)

*OrderID references Order.OrderID; OrderName represents the Creates relationship*

Customer (CustomerID, Name\*, Street\*, City\*, State\*, Zip\*, OrderName)

*OrderName represents the Places relationship*

Supplier (SupplierID, Name\*, Street\*, City\*, State\*, Zip\*, ShipmentName)

*ShipmentName represents the Ships relationship*

Supply Shipment (SupplyID, Quantity\*, SupplierID\*, PartID\*)

*SupplierID references Supplier.SupplierID; PartID references Part.PartID*