1.ITERATION

- *Step 1: Mapping of Regular Entity Types*

User					
UserID	Password	BirthDate	RegistrationDate	Email	PhoneNumber

Campaign				
CampaignID	Name	Description	StartDate	EndDate

ShippingDetail									
ShippingID	AddressTitle	AddressLine	City	District	Neighborhood	BillType	FirstName	LastName	PhoneNumber

PaymentDetail					
PaymentDetailID	CardNumber	CardExpiryDate	CardHolderName	CVV	

Subscription				
SubscriptionID	StartDate	EndDate	RenewalDate	Fee

Inventory		
InventoryID	AddressLine	InventoryName

Product						
ProductID	ProductName	Information	Brand	Price	Properties	

Category	
CategoryID	CategoryName

Logistic
LogisticID

Shipment							
TrackingNumber	PackageWeight	PackageDimension	CarrierName	DeliveryStatus	DeliveryDate	EstimatedDeliveryDate	ShipmentDate

Payment							
PaymentID	PaymentAmount	PaymentMethod	CardNumber	CardExpiryDate	CardHolderName	CVV	

PromotionCode					
PromotionCodeID	StartDate	EndDate	CodeType	Information	

ShoppingCart
ShoppingCartID

- *Step 2: Mapping of Weak Entity Types*

Stock			
InventoryInventoryID	ProductID	Quantity	ListPrice

- *Step 3: Mapping of Binary 1:1 Relation Types*

AppliedToPayment	
PaymentID	PromotionCode.PromotionCodeID

Subscription						
SubscriptionID	StartDate	EndDate	RenewalDate	Fee	**User.UserID**	

ProductStock		
Stock.InventoryID	Stock.ProductID	Product.ProductID

- *Step 4: Mapping of Binary 1:N Relationship Types.*

ShippingDetail										
ShippingID	AddressTitle	AddressLine	City	District	Neighborhood	BillType	FirstName	LastName	PhoneNumber	**User.UserID**

PaymentDetail						
PaymentDetailID	CardNumber	CardExpiryDate	CardHolderName	CVV	**User.UserID**	

Category		
CategoryID	CategoryName	**Category.ParentCategoryID**

Payment							
PaymentID	PaymentAmount	PaymentMethod	CardNumber	CardExpiryDate	CardHolderName	CVV	**PaymentDetail.PaymentDetailID**

Shipment								
TrackingNumber	PackageWeight	PackageDimension	CarrierName	DeliveryStatus	DeliveryDate	EstimatedDeliveryDate	ShipmentDate	**Logistic.LogisticID**

- *Step 5: Mapping of Binary M:N Relationship Types.*

CampaingCart	
CampaingCampaignID	ShoppingCart.ShoppingCartID

CampaingProduct	
CampaignCampaignID	Product.ProductID

CategoryProduct	
Category.CategoryID	Product.ProductID

CartItems		
Product.ProductID	ShoppingCart.ShoppingCartID	Quantity

- *Step 6: Mapping of Multivalued attributes.*

UserLastLogin	
User.UserID	LastLogin

- ***Step 7: Mapping of N-ary Relationship Types -> PASS***

- *Step 8: Options for Mapping Specialization or Generalization.*

8-a

Seller									
Seller.User.User.UserID	FirstName	LastName	StoreName	TaxID	StoreRating	SellerType	StoreDate	TotalSellNumber	SearNo	SellerCategoryType

8-c

Customer		
Customer.User.User.UserID	FirstName	LastName

8-D

Campaign															
CampaignID	Name	Description	StartDate	EndDate	IsPromotion	PromotionType	PromotionStartDate	PromotionEndDate	PromotionCondition	Status	IsDiscount	DiscountType	DiscountStartDate	DiscountEndDate	DiscountValue	DiscountCondition

- ***Step 9: Mapping of Union Types (Categories). -> PASS***

2.ITERATION

- ***Step 1: Mapping of Regular Entity Types -> PASS***

- *Step 2: Mapping of Weak Entity Types.*

Order					
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	OrderDate	OrderStatus	TotalAmount

Collection	
CollectionName	Customer.CustomerID

- *Step 3: Mapping of Binary 1:1 Relation Types*

Order								
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	OrderDate	OrderStatus	TotalAmount	**Payment.PaymentID**	**PaymentDate**	**PaymentStatus**

Order									
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	OrderDate	OrderStatus	TotalAmount	Payment.PaymentID	PaymentDate	PaymentStatus	**Logistic.LogisticID**

Customer			
Customer.User.User.UserID	FirstName	LastName	**ShoppingCart.ShoppingCartID**

- *Step 4: Mapping of Binary 1:N Relationship Types.*

PromotionCode					
PromotionCodeID	StartDate	EndDate	CodeType	Information	**Customer.CustomerID**

Product						
ProductID	ProductName	Information	Brand	Price	Properties	**Seller.SellerID**

Payment								
PaymentID	PaymentAmount	PaymentMethod	CardNumber	CardExpiryDate	CardHolderName	CVV	PaymentDetail.PaymentDetailID	**Customer.CustomerID**

Inventory			
InventoryID	AddressLine	InventoryName	**Seller.SellerID**

Order										
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	OrderDate	OrderStatus	TotalAmount	Payment.PaymentID	PaymentDate	PaymentStatus	Logistic.LogisticID	**ShippingDetails.ShippingID**

- *Step 5: Mapping of Binary M:N Relationship Types.*

Follow	
Seller.SellerID	Customer.CustomerID

SellerCampaign	
Seller.SellerID	Campaigns.CampaignID

CollectionWas		
CollectionWas	Customer.CustomerID	Product.ProductID

- ***Step 6: Mapping of Multivalued attributes. -> PASS***

- ***Step 7: Mapping of N-ary Relationship Types -> PASS***

- ***Step 8: Options for Mapping Specialization or Generalization. -> PASS***

- ***Step 9: Mapping of Union Types (Categories). -> PASS***

3.ITERATION

- ***Step 1: Mapping of Regular Entity Types -> PASS***

- *Step 2: Mapping of Weak Entity Types*

OrderItem						
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	Product.ProductID	OrderItemNo	Quantity	ItemStatus

- ***Step 3: Mapping of Binary 1:1 Relation Types -> PASS***

- *Step 4: Mapping of Binary 1:N Relationship Types.*

OrderItem							
OrderID	Customer.CustomerID	ShoppingCart.ShoppingCartID	Product.ProductID	OrderItemNo	Quantity	ItemStatus	**Shipment.TrackingNumber**

- ***Step 5: Mapping of Binary M:N Relationship Types. ->PASS***

- ***Step 6: Mapping of Multivalued attributes. -> PASS***

- ***Step 7: Mapping of N-ary Relationship Types -> PASS***

- ***Step 8: Options for Mapping Specialization or Generalization. -> PASS***

- ***Step 9: Mapping of Union Types (Categories). -> PASS***

4.ITERATION

- ***Step 1: Mapping of Regular Entity Types -> PASS***

- *Step 2: Mapping of Weak Entity Types*

Review						
ReviewNo	OrderNo	Customer.CustomerID	ShoppingCart.ShoppingCartID	Product.ProductID	OrderItemNo	ReviewDate	Rating	Comment