

Model : Model_1

Subject Area : Order

Entity Name : AccountCustomer			
Entity Definition : A person who has registered with Tim's and provided basic information.			
Attribute Name	Domain	Null Option Type	Attribute Definition
accountCustomerID	LONG	Not Null	
accountNumber	VARCHAR(20)	Not Null	
encryptedPassword	VARCHAR(20)	Not Null	
preferredAddressID	LONG	Null	
preferredCreditCardID	LONG	Null	
Entity Name : Address			
Entity Definition : Data suitable for a post office mailing.			
Attribute Name	Domain	Null Option Type	Attribute Definition
addressID	LONG	Not Null	
addressData	VARCHAR(254)	Not Null	
accountCustomerID	LONG	Null	
Entity Name : AdhocCustomer			
Entity Definition : A person who is not known to register with Tim's and is placing an order.			
Attribute Name	Domain	Null Option Type	Attribute Definition
adhocCustomerID	LONG	Not Null	
Entity Name : CreditCard			
Entity Definition : A means of deferred payment via a financial institution.			
Attribute Name	Domain	Null Option Type	Attribute Definition
creditCardID	LONG	Not Null	
cardType	VARCHAR(20)	Not Null	
cardHolderName	VARCHAR(50)	Not Null	
cardNumber	VARCHAR(20)	Not Null	
expirationDate	DATE	Not Null	
accountCustomerID	LONG	Null	
Entity Name : Customer			
Entity Definition : Someone who has placed an order or defined an account.			
Attribute Name	Domain	Null Option Type	Attribute Definition
customerID	LONG	Not Null	
customerName	VARCHAR(50)	Not Null	

Entity Name : Customer
Entity Definition : Someone who has placed an order or defined an account.

Attribute Name	Domain	Null Option Type	Attribute Definition
phoneNumber	VARCHAR(20)	Null	
emailAddress	VARCHAR(50)	Null	
customerType	VARCHAR(20)	Not Null	

Entity Name : CustOrder
Entity Definition : A collection of menu items chosen by a customer to be paid for together and delivered together.

Attribute Name	Domain	Null Option Type	Attribute Definition
custOrderID	LONG	Not Null	
orderDatetime	DATETIME DAY TO SECOND	Not Null	
pickupDatetime	DATETIME DAY TO SECOND	Null	
totalAmount	MONEY(,)	Null	
specialInstructions	VARCHAR(254)	Null	
customerID	LONG	Not Null	
addressID	LONG	Null	
deliveryTypeID	LONG	Null	
locationID	LONG	Not Null	

Entity Name : DeliveryType
Entity Definition : The means of providing a customer with an order.

Examples: delivery to a table, delivery to an address.

Attribute Name	Domain	Null Option Type	Attribute Definition
deliveryTypeID	LONG	Not Null	
deliveryTypeName	VARCHAR(50)	Not Null	

Entity Name : Location
Entity Definition : A place where Tim's sells sandwiches.

Attribute Name	Domain	Null Option Type	Attribute Definition
locationID	LONG	Not Null	
phoneNumber	VARCHAR(20)	Not Null	
sandwichShopID	LONG	Not Null	
addressID	LONG	Not Null	
menuID	LONG	Not Null	

Entity Name : Payment
Entity Definition : The providing of monies in return for an order.

Attribute Name	Domain	Null Option Type	Attribute Definition
paymentID	LONG	Not Null	

Entity Name : Payment
Entity Definition : The providing of monies in return for an order.

Attribute Name	Domain	Null Option Type	Attribute Definition
paymentAmount	MONEY(,)	Not Null	
custOrderID	LONG	Not Null	
creditCardID	LONG	Not Null	

Entity Name : SandwichShop
Entity Definition : A business for making sandwiches. Currently only one possibility, Tim's.

Attribute Name	Domain	Null Option Type	Attribute Definition
sandwichShopID	LONG	Not Null	
sandwichShopName	VARCHAR(50)	Not Null	
URL	VARCHAR(254)	Not Null	

Subject Area : OrderItem

Entity Name : CustOrder			
Entity Definition : A collection of menu items chosen by a customer to be paid for together and delivered together.			
Attribute Name	Domain	Null Option Type	Attribute Definition
custOrderID	LONG	Not Null	
orderDatetime	DATETIME DAY TO SECOND	Not Null	
pickupDatetime	DATETIME DAY TO SECOND	Null	
totalAmount	MONEY(,)	Null	
specialInstructions	VARCHAR(254)	Null	
customerID	LONG	Not Null	
addressID	LONG	Null	
deliveryTypeID	LONG	Null	
locationID	LONG	Not Null	
Entity Name : Discount			
Entity Definition : A pricing category.			
Examples: none, senior.			
Attribute Name	Domain	Null Option Type	Attribute Definition
discountID	LONG	Not Null	
discountName	VARCHAR(50)	Not Null	
Entity Name : IngredientChoice			
Entity Definition : An alternative for an ItemIngredient.			
Examples: swiss and cheddar cheese.			
Attribute Name	Domain	Null Option Type	Attribute Definition
ingredientChoiceID	LONG	Not Null	
ingredientChoiceName	VARCHAR(50)	Not Null	
itemIngredientID	LONG	Not Null	
Entity Name : ItemIngredient			
Entity Definition : One component of a MenuItem.			
Examples: bread, cheese, meat.			
Attribute Name	Domain	Null Option Type	Attribute Definition
itemIngredientID	LONG	Not Null	
itemIngredientName	VARCHAR(50)	Not Null	
menuItemID	LONG	Not Null	
Entity Name : ListPrice			
Entity Definition : The charge for a MenuItem given a particular Discount.			
Attribute Name	Domain	Null Option Type	Attribute Definition
menuItemID	LONG	Not Null	
discountID	LONG	Not Null	

Entity Name : ListPrice
Entity Definition : The charge for a MenuItem given a particular Discount.

Attribute Name	Domain	Null Option Type	Attribute Definition
listPriceAmount	MONEY(,)	Not Null	

Entity Name : Location
Entity Definition : A place where Tim's sells sandwiches.

Attribute Name	Domain	Null Option Type	Attribute Definition
locationID	LONG	Not Null	
phoneNumber	VARCHAR(20)	Not Null	
sandwichShopID	LONG	Not Null	
addressID	LONG	Not Null	
menuID	LONG	Not Null	

Entity Name : Menu
Entity Definition : A collection of offered products.

Example: fall menu.

Attribute Name	Domain	Null Option Type	Attribute Definition
menuID	LONG	Not Null	
menuName	VARCHAR(50)	Not Null	

Entity Name : MenuItem
Entity Definition : A product that Tim's offers.

Examples: reuben sandwich, garden salad.

Attribute Name	Domain	Null Option Type	Attribute Definition
menuItemID	LONG	Not Null	
menuItemType	VARCHAR(20)	Not Null	
menuItemName	VARCHAR(50)	Not Null	
menuItemSize	VARCHAR(10)	Not Null	
menuID	LONG	Not Null	

Entity Name : OrderItem
Entity Definition : A quantity of MenuItems or a miscellaneous charge (such as tax, delivery fee).

Attribute Name	Domain	Null Option Type	Attribute Definition
orderItemID	LONG	Not Null	
orderItemName	VARCHAR(50)	Null	
quantity	INTEGER	Not Null	
orderItemAmount	MONEY(,)	Not Null	
menuItemID	LONG	Null	
custOrderID	LONG	Not Null	

Entity Name : OrderItem_IngredientChoice

Entity Definition : A many-to-many relationship.

Attribute Name	Domain	Null Option Type	Attribute Definition
orderItemID	LONG	Not Null	
ingredientChoiceID	LONG	Not Null	