This Store Management System uses MySQL as a database to create, read, update, and delete data. The database will be used to store information about products as well as to track various business updates, including transactions. The following is a list of what the different entities and their properties are:

Customers, has 5 attributes

CustomerID: INT, > 0 Name: VARCHAR(255)

Email: VARCHAR(255), unique

Phone: VARCHAR(255) Address: VARCHAR(255)

Suppliers, has 5 attributes

SupplierID: INT, > 0 Name: VARCHAR(255)

ContactName: VARCHAR(255) Email: VARCHAR(255), unique

Phone: VARCHAR(255) Address: VARCHAR(255)

Products, has 8 attributes

ProductID: INT, > 0

SupplierID: INT, > 0, foreign key referencing a Supplier

Name: VARCHAR(255)

Description: VARCHAR(255)

Quantity: INT, >= 0

Price: DECIMAL(10, 2), >= 0.00, per unit

SupplyPrice: DECIMAL(10, 2), >= 0.00, per unit, this is the price paid to supplier

Expiration: VARCHAR(255), "n/a" if not applicable

Orders, has 6 attributes

OrderID: INT, > 0

CustomerID: INT, > 0, foreign key referencing a Customer

OrderDate: DATE

TotalPrice: DECIMAL(10, 2), >= 0.00

Status: VARCHAR(255), (e.g., "Pending", "Completed", "Cancelled") **PaymentStatus**: VARCHAR(255), (e.g., "Paid", "Partial", "Unpaid")

OrderLines, has 5 attributes

OrderLineID: INT, > 0

OrderID: INT, > 0, foreign key referencing an Order **ProductID**: INT, > 0, foreign key referencing a Product

Quantity: INT, > 0

PriceAtPurchase: DECIMAL(10, 2), >= 0.00

Payments, has 5 attributes

PaymentID: INT, > 0

OrderID: INT, > 0, foreign key referencing an Order

Amount: DECIMAL(10, 2), >= 0.00

PaymentDate: DATE

Method: VARCHAR(255), (e.g., "Credit Card", "Debit Card", "Cash")

There are 6 entities in total: Customers, Suppliers, Products, Orders, OrderLines, and Payments. Each product will be associated with a supplier, each order will be associated with a customer, and each payment will be associated with an order. For the case of OrderLines, this entity will track the details of an order – that is what, how many, and at what price products are sold/bought in an order. A row in OrderLines is associated with an order as well as with a product that would be marked as part of that order.