Kamel Yehya TA
Supermarket Data Model

Category
Category
Description

Spread
Bread

Comprises

SubCategory
Category
SubCategory
Description

Spread   Sweet
Spread   Savoury

Classifies

Product
Product
Description
Category
SubCategory

PeanutButter   Spread   Sweet
CaramelisedOnion   Spread   Savoury

Exists As

Person
PersonId
NameLast
NameFirst
Email
BirthDate
Address

Employee
EmployeeId
ManagerId
HireDate
Salary

Is

Manager
ManagerId

Supervises

Customer
CustomerId
Points
Discount

Brand
Brand
Description

Kraft
Sanitarium
Kellogs

Is

BrandDiscount
Brand
Discount

Comprises

BrandProduct
Brand
Product
Price

Kraft   PeanutButter
Sanitarium   PeanutButter

Is

ProductDiscount
Brand
Product
Discount

Is

ProductCode
Brand
Product
BarCode   AK

Issues

Order
CustomerId
DateTime

Is

Payment
CustomerId
DateTime
PaymentType
PaymentDateTime
Amount

Comprises

Is Sold As

OrderItem
CustomerId
DateTime
Brand
Product
Quantity
Price

Entity Type
- Reference/Major
- Reference/Simple
- Identifying/Major
- Identifying
- Transaction
- TransactionDetail
- History, Audit

IDEF1X Notation