Functional Dependencies

1. SupplierID -> SupplierName, SupplierAddress, SupplierPhone
(for Supplier)

2. DeliveryID -> SupplierID
(for ProvidesDelivery)

3. ProductID -> PricePerCostUnit, CostUnit, ProductionDate, QuantityInStock, Brand, BestBeforeDate, PLU, UPC, Organic, Name, Cut, Animal, ProductType, AisleNumber)
(for Product)

4. LocationNumber, AisleNumber -> AisleName
(for Aisle)
The store's location number and aisle number determine the aisle name.

5. Name, Phone -> Email
(for Customer)

6. TransactionNumber, ProductID, Quantity -> CustomerName, CustomerPhone, Date, Total)
(for Purchases)

7. LocationNumber -> StoreName, StoreAddress
(for Store)
The store's location number determines the store's name and address.

8. DepartmentName -> AisleNumber
(for Department)

9. EmployeeID -> LocationNumber, DepartmentName, Position, EmployeeName, EmployeePhone, SIN, EmployeeAddress

10. Position -> Wage

Candidate Keys

ProvidedBy: SupplierID, ProductID
Supplier: SupplierID
ProvidesDelivery: DeliveryID, SupplierID
ReceivedFrom: ProductID, DeliveryID
Product: ProductID
Customer: CustomerName, CustomerPhone
Purchases: TransactionNumber, ProductID, Quantity
ShopsAt: CustomerName, CustomerPhone, LocationNumber
Store: LocationNumber
HasDepartment: LocationNumber, DepartmentName
Department: DepartmentName
AisleContains: LocationNumber, AisleNumber, AisleName, DepartmentName
Employee: EmployeeID

Normalization

After normalization, the following schemas change:

Employee(EmployeeID: Integer, **LocationNumber:** Integer, **DepartmentName:** String, **Position:** String, EmployeeName: String, EmployeePhone: String, SIN: Integer, EmployeeAddress: String)

PositionWage (Position: String, Wage: Integer)

All other tables remain unchanged because the determinants are primary keys.