

# Supermarket Database Management System

## FD's

### 1. Product

- Product\_ID -> {Product\_Type, brand, Selling\_Price, weight, Cost\_Price, Category\_ID, offer\_ID, Block\_Count, Warehouse\_Count}
- Product\_Type -> {category\_id}
- Key -> {Product\_ID, Product\_Type}
- Primary Key -> Product\_ID
- Foreign Key -> category\_id references category(category\_id)

### 2. Customer

- Customer\_ID -> { customer\_name, DOB, email, address., gender, customer\_contact, membership\_to, membership\_from, cust\_type\_id }
- Primary Key -> Customer\_ID
- Foreign Key -> cust\_type\_id references to cust\_type

### 3. Employee

- Employee\_ID -> {dep\_id, employee\_name, employee\_contact, employee\_gender, employee\_email, employee\_address, employee\_DOB }
- Primary key -> Employee\_ID

### 4. InvoiceDetails

- Inv\_id -> {cust\_id, amount, date, payment\_mode\_id, cashier\_id}
- Primary key -> Inv-id
- Foreign key -> cust\_id reference to customer

### 5. Payment Mode

- Payment\_mode\_id -> {mode\_of\_payment, offer\_id}
- Mode\_of\_payment -> { payment\_mode\_id, offer\_id }
- Primary key -> payment\_mode\_id
- Foreign Key -> offer\_id references to offerDetails

### 6. offerDetails

- Offer\_id -> {offer\_type, offer\_info, offer\_startDate, offer\_endDate}
- Primary key -> offer\_id

### 7. Block

- block\_id -> { block\_name, block\_incharge\_id }
- Block\_name -> { block\_id, block\_incharge\_id }
- Primary key -> block\_id

### 8. Feedback

- Review\_id -> { review\_text, rating, review\_date, cust\_id, invoice\_id }
- Primary key -> Review\_id
- Foreign key -> cust\_id reference to customer, invoice\_id references to invoiceDetails

## 9. Buys

- { Invoice\_id, Product\_id } -> Quantity, cost
- Primary key -> { Invoice\_id, Product\_id }
- Foreign key -> Product\_id references Product, invoice\_id references invoiceDetails

## 10. Warehouse

- Warehouse\_no -> { warehouse\_name }
- Primary key -> warehouse\_no

## 11. Customer\_type

- Type\_id -> { type\_name }
- Primary key -> Type\_id

## 12. Return\_Slip

- Slip\_no -> { inv\_id, product\_id, quantity, date }
- Primary key -> Slip\_no
- Foreign key -> inv\_id references to invoiceDetails, product\_id references to product

## 13. Category

- Category\_id -> { category\_name, block\_id, warehouse\_no }
- Primary key -> category\_id
- Foreign key -> block\_id references to block