

Table Design

MINI PROJECT – 20MCA245

FarmConnect

Empowering Agricultural Commerce through Digital Platform

1 Table: Users

Primary Key: UserID

Field Name	Data Type	Key Constraints	Field Description
UserID	INT	Primary Key	Unique identifier
Role	VARCHAR	Not Null	Role (Admin, Farmer, Buyer)
Username	VARCHAR	Not Null	Username
Password	VARCHAR	Not Null	Password
FirstName	VARCHAR	Not Null	First name
LastName	VARCHAR	Not Null	Last name
Email	VARCHAR	Not Null	Email address
Phone	VARCHAR	Not Null	Phone number
Status	VARCHAR	Not Null	User status (Blocked, Active)

2 Table: Farmer

Primary Key: FarmerID

Foreign Key: UserID

Field Name	Data Type	Key Constraints	Field Description
FarmerID	INT	Primary Key	Unique farmer identifier
RegistrationDate	DATE	Not Null	Registration date
UserID	INT	Foreign Key	Foreign key to User Table

3 Table: Buyer

Primary Key: BuyerID

Foreign Key: UserID

Field Name	Data Type	Key Constraints	Field Description
BuyerID	INT	Primary Key	Unique buyer identifier
RegistrationDate	DATE	Not Null	Registration date
UserID	INT	Foreign Key	Foreign key to User Table

4 Table: Admin

Primary Key: AdminID

Foreign Key: UserID

Field Name	Data Type	Key Constraints	Field Description
AdminID	INT	Primary Key	Unique admin identifier
UserID	INT	Foreign Key	Foreign key to User Table

5 Table: Inventory

Primary Key: InventoryID

Foreign Key: FarmerID, ProductID

Field Name	Data Type	Key Constraints	Field Description
InventoryID	INT	Primary Key	Unique inventory ID
FarmerID	INT	Foreign Key	Owner (Farmer)
ProductID	INT	Foreign Key	Product in inventory
Quantity	INT	Not Null	Quantity of product

6 Table: Product

Primary Key: ProductID

Foreign Key: FarmerID

Field Name	Data Type	Key Constraints	Field Description
ProductID	INT	Primary Key	Unique product ID
ProductName	VARCHAR	Not Null	Product name
Category	VARCHAR	Not Null	Product category
Price	DECIMAL	Not Null	Product price
Description	TEXT	Not Null	Product description
FarmerID	INT	Foreign Key	Owner (Farmer)

7 Table: Cart

Primary Key: CartID

Foreign Key: BuyerID, ProductID

Field Name	Data Type	Key Constraints	Field Description
CartID	INT	Primary Key	Unique cart ID
BuyerID	INT	Foreign Key	Owner (Buyer)
ProductID	INT	Foreign Key	Product in cart
Quantity	INT	Not Null	Quantity of item

8 Table: Order

Primary Key: OrderID

Foreign Key: BuyerID

Field Name	Data Type	Key Constraints	Field Description
OrderID	INT	Primary Key	Unique order ID
BuyerID	INT	Foreign Key	Buyer of the order
OrderDate	DATE	Not Null	Date of the order
Status	VARCHAR	Not Null	Order status

9 Table: Invoice

Primary Key: InvoiceID

Foreign Key: OrderID

Field Name	Data Type	Key Constraints	Field Description
InvoiceID	INT	Primary Key	Unique invoice ID
OrderID	INT	Foreign Key	Associated order
TotalAmount	DECIMAL	Not Null	Total amount paid
PaymentStatus	VARCHAR	Not Null	Payment status