

1. Introduction

A plant nursery business needs a database to manage its plants, customers, and sales effectively. Without a structured system, it becomes difficult to track inventory, customer purchases, and supplier relationships. This database will help organize and streamline nursery operations.

2. Objectives

Store details about plants (types, price, quantity, supplier).

Track customer information (name, phone, email).

Record orders made by customers (date, total cost).

Maintain supplier details (name, contact, location).

Connect these entities with relationships for accurate data management.

3. Entities & Attributes

Plant Table

PlantID (PK)

Name

Type

Price

QuantityAvailable

SupplierID (FK)

Customer Table

CustomerID (PK)

FirstName

LastName

Phone

Email

Order Table

OrderID (PK)

CustomerID (FK)

OrderDate

TotalAmount

Supplier Table

SupplierID (PK)

SupplierName

ContactNumber

Location

4. Relationships

Plant → Supplier = Many plants come from one supplier (many-to-one).

Order → Customer = Many orders belong to one customer (many-to-one).

Order → Plant = An order can have multiple plants, and plants can appear in many orders (many-to-many).

Solved using a junction table: OrderDetails with attributes:

OrderDetailID (PK)

OrderID (FK)

PlantID (FK)

Quantity