**PROJECT-TITLE:” FARMING MANAGEMENT SYSTEM”**

**DATE:18-12-2024**

**1.FARMER TABLE:**

|  |  |  |
| --- | --- | --- |
| **FARMER\_ID(PK)** | **NAME** | **PHONE** |
| 1 | Ahmed Ali | 1234567890 |
| 2 | Abdullah Mohsin | 1234567890 |
| 3 | Arish Khan | 1234567890 |
| 4 | Faheem Abbas | 1234567890 |
| 5 | Raman Soquel | 1234567890 |

**2.FARM TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **FARM\_ID(PK)** | **NAME** | **ADDRESS** | **FARMER\_ID(FK)** |
| 1 | Sunny Farm | 123 Green Road | 3 |
| 2 | Green Valley Farm | 45 Canal View | 4 |
| 3 | Pakistani Orchard | 78 Mango Street | 3 |
| 4 | Golden Wheat Fields | 12 Lahore Avenue | 4 |
| 5 | Golden Wheat Fields | 90 Karachi Road | 2 |

**3.INPUT INVENTORY TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **INVENTORY\_ID(PK)** | **ITEM\_NAME** | **QUANTITY** | **FARMER\_ID(FK)** |
| 1 | Wheat Seeds | 500 | 3 |
| 2 | Fertilizer | 300 | 2 |
| 3 | Pesticides | 150 | 2 |
| 4 | Tractor Fuel | 200 | 3 |
| 5 | Irrigation Pipes | 50 | 4 |

**4.FIELD TABLE:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FIELD\_ID(PK)** | **FARMER\_ID(FK)** | **SIZE** | **FARM\_ID(FK)** | **CROP\_ID(FK)** |
| 1 | 2 | 10.50 | 3 | 3 |
| 2 | 4 | 15.00 | 4 | 4 |
| 3 | 3 | 8.25 | 2 | 2 |
| 4 | 5 | 12.00 | 4 | 4 |
| 5 | 5 | 20.00 | 3 | 3 |

**5.FINANCIAL TRANSACTIONS TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **TRANSACTION\_ID(PK)** | **TYPE** | **AMOUNT** | **FARM\_ID(FK)** |
| 1 | Crop Sale | 1500.00 | 5 |
| 2 | Fertilizer Purchase | 2500 | 2 |
| 3 | Seed Purchase | 4300 | 5 |
| 4 | Equipment Maintenance | 1200 | 2 |
| 5 | Milk Sale | 1000 | 4 |

**6.IRRIGATION SCHEDULE TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SCHEDULE\_ID** | **WATER\_REQUIREMENT** | **FREQUENCY(WEEKLY/DAILY)** | **FIELD\_\_ID(FK)** |
| 1 | 500.00 | Weekly | 2 |
| 2 | 300.00 | Bi-Weekly | 2 |
| 3 | 600.00 | Monthly | 4 |
| 4 | 700.00 | Weekly | 5 |
| 5 | 250.00 | Weekly | 4 |

**7.FERTILIZERS TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ANALYSIS\_ID(PK)** | **FIELD\_ID(FK)** | **FERTILIZER\_TYPE** | **FERTILIZER \_LEVEL** |
| 1 | 2 | Nitrogen | 12.50 |
| 2 | 2 | Phosphorus | 15.00 |
| 3 | 3 | Potassium | 10.00 |
| 4 | 4 | Organic Compost | 8.00 |
| 5 | 5 | Micronutrients Mix | 20.00 |
| 6 | 3 | Organic Compost | 13.98 |
| 7 | 5 | Micronutrients Mix | 15.67 |
| 8 | 1 | Organic Compost | 13.91 |
| 9 | 4 | Nitrogen | 17.89 |
| 10 | 1 | Micronutrients Mix | 14.56 |

**8.CROP TABLE:**

|  |  |  |
| --- | --- | --- |
| **CROP\_ID(PK)** | **NAME** | **CROP\_TYPE** |
| 1 | Wheat | Grain |
| 2 | Rice | Grain |
| 3 | Cotton | Fiber |
| 4 | Sugarcane | Cash Crop |
| 5 | Mango | Fruit |

**9.HARVEST RECORD TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **HARVEST\_ID(PK)** | **YIELD QUANTITY(Kg/Ton)** | **DATE OF HARVEST** | **CROP\_ID(FK)** |
| 1 | 2000.00 | 2024-12-15 | 4 |
| 2 | 3500.00 | 2024-11-30 | 4 |
| 3 | 2500.00 | 2024-10-20 | 5 |
| 4 | 4000.00 | 2024-12-01 | 3 |
| 5 | 1500.00 | 2024-07-15 | 3 |