REPORT DATABASE SYSTEM

"PROJECT-TITLE: FARMING-MANAGEMENT SYSTEM"" "ER-DIAGRAM UML WITH BUSINESS RULES"

REPORT:

• INTRODUCTION:

We are creating this database in order to manage data of farmer. It is a mini project with some tables. Here in this figure of ER-diagram, we just use 9 tables which includes for relationship you can see in this figure.

• BUSINESS-RULE:

1. Farmers and Farms:

- Each farmer can manage one or more farms.
- Each farm is managed by exactly one farmer.

2. Farmer and Fields:

- Each farmer having one or more fields.
- Each field belongs to exactly one farmer.

3. Fields and Crops:

- Each field is associated with one crop at a time.
- Each crop grows in one field.

4. Fields and Fertilizers:

- Each field uses multiple fertilizer.
- Each fertilizer analysis is associated with exactly one field.

5. Fields and Irrigation Schedules:

- Each field having one or more irrigation schedules.
- Each irrigation schedule is associated with exactly one field.

6. Crops and Harvest Records:

- Each crop having one or more harvest records.
- Each harvest record belongs to exactly one crop.

7. Farmers and Financial Transactions:

- Each financial transaction is linked to one and only one farmer.
- Each farmer can have multiple financial transactions.

8. Farmers and Input Inventory:

- One farmer manages one input inventory items.
- One inventory item belongs one and only one farmer.

9. Farm and Fields:

- One farm has many fields
- One fields belong to one and only one farm

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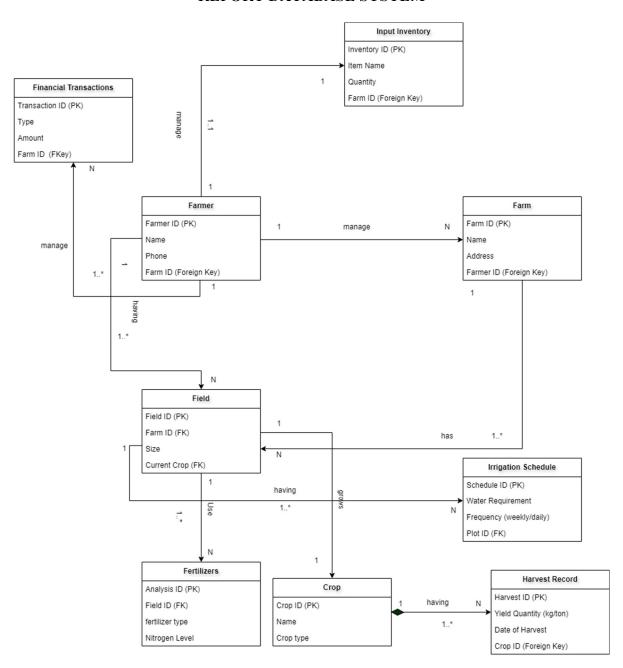


Fig: ER-Diagram