Soil Classification & Smart Agriculture System - Database Report

1. Sample Data Inserted

- Farmers: Ahmed Ali, Sara Mohamed

- Soil Types: Clay, Sandy

- Crops: Wheat, Corn

- Weather Data: Cairo (28.5°C), Alexandria (24.3°C)

- Recommendations: Wheat for Ahmed, Corn for Sara

- Smart Irrigation: Ahmed (Active, 15.5L), Sara (Inactive, 0L)

2. Query Results

a) Farmers and Their Recommendations

Farmer Name	Recommendation
Ahmed Ali	Wheat is best suited for your soil.
Sara Mohamed	Corn is recommended for your soil conditions.

b) Suitable Crops for Each Soil Type

Crop	Soil Type
Wheat	Clay
Corn	Sandy

c) Smart Irrigation Status

Farmer Name	Irrigation Status	Water Used (L)
Ahmed Ali	Active	15.5
Sara Mohamed	Inactive	0.0

This report confirms that the database structure and relationships are working correctly.