

Farm
<pre>{ farm_id: PK factors_id: { • factors_id: PK • coverage_id: FK • moisture_id: FK • humidity_id: FK • time: NUMBER } region_id: { • region_id: PK • coverage_id: FK • climate_id: FK • location: coordinates } } plant_id: { • crop_id: PK • Name: VARCHAR • Requirements: BLOB • health_id: FK } yield_id: FK } location: coordinates }</pre>

Farm
<pre>{ farm_id: PK factors_id: { factors_id: PK coverage_id: { coverage_id: PK inchesOfRain: NUMBER location: coordinates } moisture_id: { moisture_id: PK waterSaturation: NUMBER } humidity_id: { humidity_id: PK humidity: NUMBER } } time: NUMBER } region_id: { region_id: PK soilType_id: { soil_id: PK type: TEXT } climate_id: { climate_id: PK data: VARCHAR } location: coordinates } crop_id: { crop_id: PK Name: VARCHAR Requirements: BLOB health_id: { health_id: PK diseases: TEXT health: BLOB } yield_id: { yield_id: PK yield: NUMBER } } location: coordinates }</pre>

IrrigationSolution
<pre>solution_id: PK insight_id: { insight_id: PK insights: BLOB analyst_id: FK solution_id: FK } visualization_id: { visualization_id: PK image: *artFile algorithm_id: PK analyst_id: { analyst_id: PK concentration: TEXT engineer_id: FK specialist_id: FK } } information: BLOB user_id: { user_id: PK firstName: VARCHAR lastName: VARCHAR IP address: VARCHAR email: VARCHAR phone: VARCHAR userType: { farmer_id: manager_id: organization_id: } farm_id: FK }</pre>