

## Diagram Documentation

Link to diagram: <https://app.quickdatabasediagrams.com/#/d/PunqlA>

### Farmer

Field	Description	Type	Default	Other
farmer_id		int(5)		PK
farmer_firstname		varchar(30)		
farmer_lastname		varchar(30)		
afm		varchar(9)		
username		varchar(30)		
password		varchar(30)		
email		varchar(50)		

### Field

Field	Description	Type	Default	Other
field_id		int(5)		PK
field_size		demical(5,1)		
field_plant		varchar(30)		
farmer_id		int(5)		FK

### FieldController

Field	Description	Type	Default	Other
controller_id		int(5)		PK
controller_name		varchar(30)		
controller_energy		int(3)		
controller_type		int(3)		FK
field_id		int(5)		FK

### Sensor

Field	Description	Type	Default	Other
sensor_id		int(5)		PK
sensor_name		varchar(20)		
sensor_type		int(3)		FK
sensor_data		varchar(50)		
sensor_status		boolean		
controller_id		int(5)		FK

### IrrigationHistory

Field	Description	Type	Default	Other
irr_id		int(5)		PK
day		datetime		
interference		boolean		
cubic_meters		demical(10,2)		
cost		demical(10,2)		
field_id		int(5)		FK
farmer_id		int(5)		FK

## ControllerType

Field	Description	Type	Default	Other
type_id		int(3)		PK
type_name		varchar(15)		

## SensorType

Field	Description	Type	Default	Other
type_id		int(3)		PK
type_name		varchar(15)		