

## MySQL Database Table Documentation

### farmer

Column Name	Data Type	Description
start_date	DATE NOT NULL	Date at which data was collected
farmer_id	INT(AUTO_INCREMENT)	Primary key, unique identifier.
first_name	VARCHAR(100)	Farmer's first name.
last_name	VARCHAR(100)	Farmer's last name.
nationality	VARCHAR(50)	Nationality of the farmer.
sex	CHAR(1)	Gender of the farmer.
dob	DATE	Date of birth.
id_type	VARCHAR(50)	Type of identification document.
id_number	VARCHAR(100)	Identification number.
id_doc_number	VARCHAR(50)	Additional document identifier.
id_image_url	VARCHAR(255)	Link to the ID image.
farmer_image_url	VARCHAR(255)	Link to the farmer image
marital_status	ENUM	Marital status (e.g., Single, Married).
contact_number	VARCHAR(20)	Primary contact number.
mobile_money_number	VARCHAR(20)	Mobile money account number.
is_mobile_money_same	BOOLEAN	Indicates if mobile money number is same as contact number (default TRUE).
association	VARCHAR(100)	Affiliation or cooperative association.
location	VARCHAR(100)	Location or address of the farmer.
global_gap_certified	ENUM ('Yes', 'No but interested', 'No and not interested')	Certification status for Global GAP.
usda_organic_certified	ENUM ('Yes', 'No but interested', 'No and not interested')	Certification status for USDA Organic.

### farm

Column Name	Data Type	Description
farm_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
farm_number	INT	Unique farm number.
farm_location	VARCHAR(100)	Description of the farm's location.
geo_coordinates	POINT	Central geographic coordinates of the farm.
geo_boundaries	POLYGON	Polygon describing the farm boundaries.

road_accessibility	ENUM ('accessible', 'difficult', 'not accessible')	Accessibility level (e.g., accessible, difficult).
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intercropping\_data

Column Name	Data Type	Description
crop_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
intercropped_crops	TEXT	List of intercrops (e.g., Okra, Cocoa).

dependents

Column Name	Data Type	Description
dependent_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
age_range	VARCHAR(20)	Age range of dependents (e.g., 0-5).
num_dependents	INT	Number of dependents.

farm\_inputs

Column Name	Data Type	Description
input_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
input_type	VARCHAR(50)	Type of input (e.g., Fertilizer).
details	VARCHAR(255)	Specific details about the input.

impact\_assessment

Column Name	Data Type	Description
assessment_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farm_id`.
disability	BOOLEAN	Indicates if the farmer has a disability.
farming_income_type	ENUM ('Primary', 'Secondary')	Farming's role in income (e.g., Primary).
primary_income_source	VARCHAR(255)	Description of income source if farming is secondary.
post_harvest_loss_percent	INT	Post-harvest losses due to spoilage, crop being uneaten, etc.

main\_crop\_data

Column Name	Data Type	Description
crop_data_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`
farm_id	INT	Foreign key referencing `farm.farm_id`.
crop_name	VARCHAR(50)	Name of the main crop.
variety	VARCHAR(100)	Variety of crop
flowering_image_url	VARCHAR(255)	Link to flowering stage image.
avg_fruit_set_percentage	DECIMAL(5,2)	Average fruit set percentage of sampled trees
avg_fruit_count	INT	Average fruit count of sampled trees
initial_planting_year	YEAR	Year trees were planted on each farm
tree_spacing	VARCHAR(50)	Tree spacing in feet or meters (e.g. 10x10 m, 6x6 ft)
tree_flower_percentage	INT	Aggregated percentage of total flowers on each tree
predicted_harvest_time	VARCHAR(255)	Predicted harvest timing

irrigation

Column Name	Data Type	Description
irrigation_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
relies_on_rainfall	BOOLEAN	Indicates reliance on rainfall.
other_irrigation_methods	TEXT	Description of other irrigation methods.

harvesting

Column Name	Data Type	Description
harvesting_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
collected_or_harvested	ENUM(collected, harvested)	Indicates if the crop was collected/harvested.
harvesting_process	VARCHAR(100)	Description of the process (e.g., Hand-picking).
harvest_responsibility	VARCHAR(100)	Party responsible for harvesting.
laborers_count	INT	Number of laborers involved.

tree\_data

Column Name	Data Type	Description
tree_id	INT (AUTO_INCREMENT)	Primary key, unique identifier.
farm_id	INT	Foreign key referencing `farm.farm_id`.
farmer_id	INT	Foreign key referencing `farmer.farmer_id`.
tree_number	INT	Unique identifier for the tree.
tree_geopoint	POINT	Geographical point of the tree.

picture_1_url	VARCHAR(255)	URL for the first picture of the tree.
picture_2_url	VARCHAR(255)	URL for the second picture of the tree.
picture_3_url	VARCHAR(255)	URL for the third picture of the tree.
picture_4_url	VARCHAR(255)	URL for the fourth picture of the tree.
picture_5_url	VARCHAR(255)	URL for the fifth picture of the tree.
picture_6_url	VARCHAR(255)	URL for the sixth picture of the tree.
picture_7_url	VARCHAR(255)	URL for the seventh picture of the tree.
picture_8_url	VARCHAR(255)	URL for the eighth picture of the tree.
fruit_set_percentage	DECIMAL(5,2)	Assessment of fruit set.