

Farm to (Database) Table

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KEY

Entity	
primary key	data type
atribute	data type
composite attribute	
. componant	data type

relationship

One

Many

One (and only one)

Zero or one

One or many

Zero or many

The ER diagram illustrates the relationships between various entities in a 'Farm to Table' database. Entities are represented by green rectangles, and relationships by yellow diamonds. Primary keys are underlined, and foreign keys are indicated by 'fk'.

Entities and their attributes:

- food**: food_id (int), name (text), quantity (int), unit (enum), macro (text), harvest_date (date_time), experation_date (date_time), price_per_unit (decimal(10,2)).
- hub**: hub_id (int), name (text), address (text), city (text), state (text), zip (varchar(2)), hours (varchar(5)).
- local_producer**: producer_id (int), name (text), phone (text), email (text), address (text), city (text), state (varchar(2)), zip (varchar(5)).
- school**: school_id (int), name (text), phone (text), email (text), address (text), city (text), state (varchar(2)), zip (varchar(5)).
- volunteer**: volunteer_id (int), name (text), email (text), phone (text).
- volunteer_role**: role_id (int), name (text), description (text), start_time (time), end_time (time), day (text).
- purchase_order**: purchase_id (int), date (date), food_id (fk), quantity (int), total_price (fk).

Relationships and cardinalities:

- hub_food**: One-to-Many relationship between **hub** and **food**.
- producer_food**: One-to-Many relationship between **local_producer** and **food**.
- hub_producer**: One-to-Many relationship between **hub** and **local_producer**.
- hub_consumer**: One-to-Many relationship between **hub** and **school**.
- hub_volunteer_role**: One-to-Many relationship between **hub** and **volunteer_role**.
- volunteer_volunteer_role**: One-to-Many relationship between **volunteer** and **volunteer_role**.
- school_purchase_order**: One-to-Many relationship between **school** and **purchase_order**.