

-- Create Fruits Table (Auto-increment ID)

```
CREATE TABLE fruits (  
    id SERIAL PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    type VARCHAR(50) NOT NULL,  
    price DECIMAL(5,2) NOT NULL  
);
```

-- Create Ingredients Table (Linked to Fruits)

```
CREATE TABLE ingredients (  
    id SERIAL PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    fruit_id INT REFERENCES fruits(id) ON DELETE SET NULL  
);
```

-- Create Premium Fruits Table (One-to-One Relationship with Fruits)

```
CREATE TABLE premium_fruits (  
    fruit_id INT PRIMARY KEY REFERENCES fruits(id) ON DELETE CASCADE  
);
```

-- Insert Data into Fruits Table

```
INSERT INTO fruits (name, type, price) VALUES  
( 'Apple', 'Citrus', 2.50),  
( 'Banana', 'Tropical', 1.50),  
( 'Orange', 'Citrus', 3.00),  
( 'Grapes', 'Berry', 4.00),  
( 'Watermelon', 'Melon', 6.50),  
( 'Strawberry', 'Berry', 2.80),  
( 'Blueberry', 'Berry', 3.60),  
( 'Mango', 'Tropical', 5.20),  
( 'Dragonfruit', 'Exotic', 5.99);
```

-- Insert Data into Ingredients Table

```
INSERT INTO ingredients (name, fruit_id) VALUES  
( 'Milk', 1), -- Apple has Milk  
( 'Honey', 2), -- Banana has Honey  
( 'Yogurt', 3), -- Orange has Yogurt  
( 'Sugar', NULL), -- Sugar is not linked to any fruit  
( 'Almond Milk', 4), -- Grapes have Almond Milk  
( 'Lemon Juice', 5); -- Watermelon has Lemon Juice
```