## Stage 4

## Trigger

```
DELIMITER $$

CREATE TRIGGER Before_Insert_Users
BEFORE INSERT ON users
FOR EACH ROW
BEGIN

DECLARE suffix INT;
SET suffix = 1;

WHILE EXISTS

(SELECT 1 FROM users WHERE name = NEW.name) DO
SET NEW.name = CONCAT(NEW.name, suffix);
SET suffix = suffix + 1;
END WHILE;
END$$

DELIMITER;
```

## **Stored Procedure**

```
DELIMITER $$

CREATE PROCEDURE AddIngredientToPantry(
     IN _userID INT,
     IN _pantryID INT,
     IN _ingredientName VARCHAR(20),
     IN _quantity FLOAT
)
BEGIN
```

Stage 4

```
DECLARE _ingredientID INT;
    SELECT ingredientID INTO _ingredientID
    FROM ingredients
    WHERE ingredientName = _ingredientName;
    IF _ingredientID IS NULL THEN
        INSERT INTO ingredients (ingredientName)
        VALUES (_ingredientName);
        SET _ingredientID = LAST_INSERT_ID();
    END IF;
    IF EXISTS (SELECT 1 FROM userpantries
        WHERE memberID = _userID
       AND pantryID = _pantryID) THEN
        INSERT INTO pantry (pantryID, ingredientID, quantity)
       VALUES (_pantryID, _ingredientID, _quantity);
    ELSE
        SIGNAL SQLSTATE '45000'
        SET MESSAGE TEXT =
        'No matching pantry found for this user.';
    END IF;
END$$
DELIMITER ;
```

Stage 4