

Restaurant Management Database

By: David O'donnell, Ellen Tunison, Nick Furlo, & Ryan Sadowski

Problem Statement

- Our application will help restaurants manage their recipes as well as what recipes each chef is assigned to.
 - This will help managers and chefs quickly lookup recipes, their ingredients, costs, and which chef will be making that dish.
 - A database will be used to implement the relationships between recipes, chefs, and other entities related to our restaurant management database system.

Functional Requirements

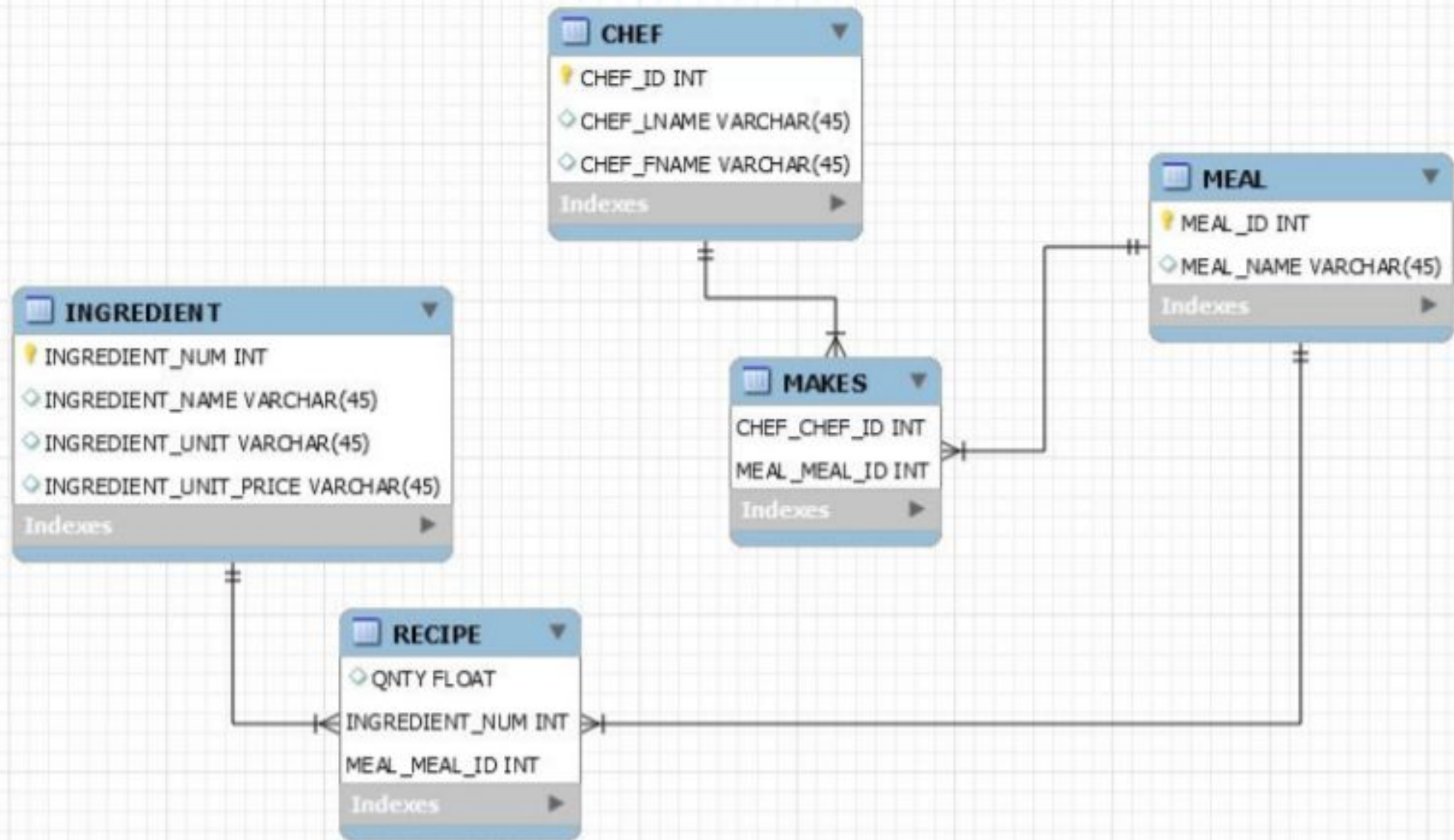
- Add a new recipe
 - Only if the recipe doesn't already exist.
- Remove a recipe
 - Removal of recipe without removing ingredients from the DB.
- Add Ingredients
 - Only if the ingredient doesn't already exist.
- Search for a recipes
 - By recipe name / ingredient names

Functional Requirements (Cont'd...)

- Calculate recipe price
 - Based on quantity of ingredients used and cost of each unit of ingredient.
- Assign recipes to chefs
 - Only the Manager role can do this if chef knows the certain recipe.
- Add additional chefs
 - Only the Manager role can do this if the chef doesn't already exist in the DB.

Conceptual Database Design

- The relationship in our database can be described by the following business rules:
 - Each meal may use many ingredients.
 - Each ingredient may be used in many meals, but may not be used in any meals.
 - Each chef can make many meals.
 - Each meal can be made by many chefs.



Technologies Used

- Python and PyQt for the GUI design
- PyCharm and Sublime text for our IDE's
- SQLite for database management and queries
- MySQL for modelling of our DB system
- Git and Github for version control

Demo
