HTTP5126 - Final Project

cookbook_db

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Overview

- As a student, deciding what to cook and managing recipes is challenging.

- This project involved creating a personal database *(cookbook_db)* to efficiently organize and access my recipe collection.

Problems

1. It's hard to quickly find a recipe based on specific ingredients I have on hand (like "chicken") or the cuisine type I want (like "Italian").

2. After trying many recipes, it's difficult to remember which ones I liked the most or were successful without separate notes.

Database Tools

1. ***Database View***
- Provides a quick way to see the highest-rated recipes based on the rating in the *recipes* table.
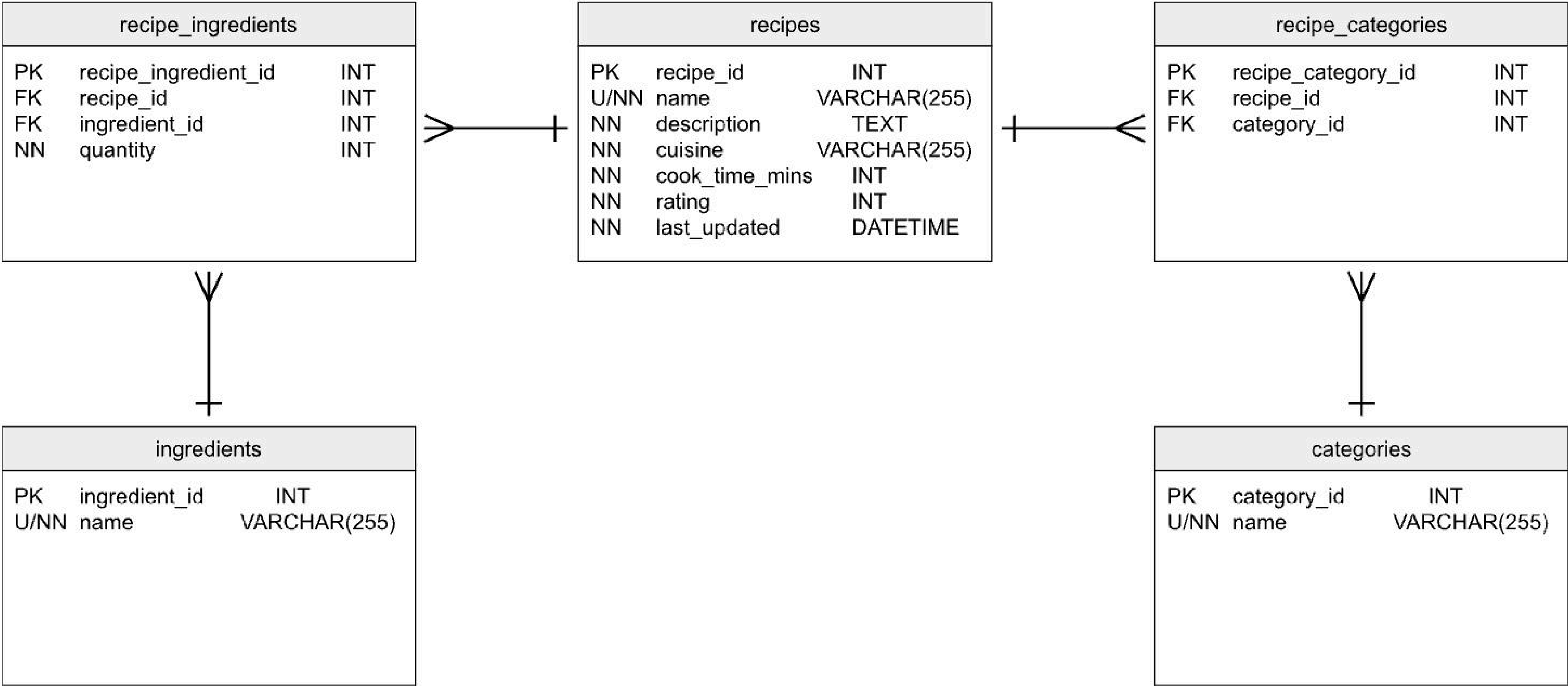- **demo:** SELECT * FROM top_rated_recipes;

2. ***Database Trigger***
- Automatically updates the *last_updated* column whenever any information in the *recipes* table is modified.
- **demo:** UPDATE recipes SET rating = 5 WHERE name = 'Pancakes';

3. ***Stored Procedure***
- Provides a search function that allows searching by ingredients, cuisine or keywords in the recipe name or description.
- **demo:** CALL usp_find_recipes('Chicken', 'Italian', NULL);

Entity Relationship Diagram

recipe_ingredients

PK	recipe_ingredient_id	INT
FK	recipe_id	INT
FK	ingredient_id	INT
NN	quantity	INT

recipes

PK	recipe_id	INT
U/NN	name	VARCHAR(255)
NN	description	TEXT
NN	cuisine	VARCHAR(255)
NN	cook_time_mins	INT
NN	rating	INT
NN	last_updated	DATETIME

recipe_categories

PK	recipe_category_id	INT
FK	recipe_id	INT
FK	category_id	INT

ingredients

PK	ingredient_id	INT
U/NN	name	VARCHAR(255)

categories

PK	category_id	INT
U/NN	name	VARCHAR(255)

Thank You! 🍳