categories = Table('user', metadata,

Column('Category\_Type', Integer, nullable=False, primary\_key=True),

Column('recipeID', BigInt, ForeignKey(“recipes.recipeID), nullable=False)

)

recipes = Table('user\_prefs', metadata,

Column('recipeID', BigInteger, nullable=False, unique=True, primary\_key=True),

Column('cookTime', Integer, nullable=False),

Column('name', String(40), nullable=False),

Column('description', Text, nullable=False),

Column(‘Servings’, Integer, nullable=False),

Column(‘Difficulty’, ENUM, nullable=False),

Column(‘steps’, Integer, nullable=False)

)

Ingredients = Table(‘ingredients’, metadata,

Column(‘IngredientID’, Integer, nullable=False, unique=True, primary\_key=True ),

Column(‘name’, String, nullable=false),

Column(‘Aisle’, String),

)

User = Table(‘User’, metadata,

Column(‘userID’, BigInt, nullable=False, unique=True, primary\_key=True),

Column(‘username’, String, nullable=False, unique=True),

Column(‘creation\_date’, TIME, nullable=False),

Column(‘password’, String, nullable=False),

Column(‘last\_access\_date’, Time, nullable=False),

)  
  
userPantry = Table(‘userPantry’, metadata,

Column(‘pantryItemID’, Integer, unique=True, primary\_key=True),

Column(‘ingredientID’, Integer, ForeignKey(“Ingredients.IngredientID”),

Column(‘userID’, String, ForeignKey(“User.userID”), nullable=False),

Column(‘expirationDate’, Time),

Column(‘purchaseDate’, ??),

Column(‘currentQuantity’, Float),

Column(‘quantityBought’, Float),

)

Recipe\_ingredient = Table(‘recipe\_ingredient’, metadata,

Column(‘recipeID’, BigInt, ForeignKey(“recipes.recipeID”, nullable=False), primary\_key=True),

Column(‘IngredientID’, Integer, ForeignKey(“Ingredients.IngredientID”), nullable=False, primary\_key=True),

Column(‘Amount’, Float, nullable=False)

)

cookedBy = Table(‘cookedBy’, metadata,

Column(“recipeID”, BigInt, Foreign\_Key(“recipes.recipeID”), nullable=False, primary\_key=True),

Column(‘userID’, BigInt, Foreign\_Key(“User.userID”), nullable=False, primary\_key=True),

Column(‘Rating’, Integer, nullable=False),

Column(‘Scale’, Integer),

Column(‘cookDate, Time),

)

Steps = Table(‘steps’, metadata,

Column(‘recipeID’, BigInt, Foreign\_Key(“recipes.recipeID”), nullable=False, primary\_key=True),

Column(‘Stepnr’, Integer, primary\_key=True),

Column(‘Instructions’,Text, nullable=False),

)