

Milestone 3 - FD's & Normalization

Drink Recipe

<u>drink_ID</u> (INT NOT NULL UNIQUE)	Drink_name (VARCHAR(50) NOT NULL)	Price (FLOAT NOT NULL)	Mix_method (VARCHAR(50) NOT NULL)	On_ice (BOOLEAN NOT NULL)	Rating (INT NOT NULL)	Popularity (VARCHAR(50) NOT NULL)	glass_ID (INT NOT NULL)	Version_of (INT)

FD's: Rating -> popularity

Candidate keys: drink_ID

Normalised:

Drink recipe

<u>drink_ID</u> (INT NOT NULL UNIQUE)	Drink_name (VARCHAR(50) NOT NULL)	Price (FLOAT NOT NULL)	Mix_method (VARCHAR(50) NOT NULL)	On_ice (BOOLEAN NOT NULL)	Rating (INT)	glass_ID (INT NOT NULL)	Version_of (INT)

Rating

<u>Rating</u> (INT NOT NULL UNIQUE)	Popularity (VARCHAR(50) NOT NULL)

Ingredient

<u>ingredient_ID</u> (INT NOT NULL UNIQUE)	Ingredient_name (VARCHAR(50) NOT NULL)	Quantity (INT)	isAvailable (BOOLEAN50)

FD's: Quantity -> isAvailable

Candidate keys: Ingredient_ID

Ingredient

<u>ingredient_ID</u> (INT NOT NULL UNIQUE)	Ingredient_name (VARCHAR(25) NOT NULL)	Quantity (INT)

IngredientAvailable

<u>Quantity</u> (INT NOT NULL UNIQUE)	isAvailable (BOOLEAN NOT NULL)

Alcohol

<u>ingredient_ID</u> (INT NOT NULL UNIQUE)	Percentage (FLOAT NOT NULL)	Liquor (BOOLEAN)	Liqueur (BOOLEAN)	glass_ID (INT NOT NULL)

FD's: Percentage -> liquor, liqueur

Candidate keys: ingredient_ID

Normalised:

Alcohol

<u>Ingredient_id</u> (INT NOT NULL UNIQUE)	Percentage (FLOAT NOT NULL)	glass_ID (INT NOT NULL)

alcoholType

<u>Percentage</u> (FLOAT NOT NULL UNIQUE)	Liquor (BOOLEAN NOT NULL)	Liqueur (BOOLEAN NOT NULL)

Juice

<u>ingredient_ID</u> (INT NOT NULL UNIQUE)	Is_sweet (BOOLEAN?)	Fruit (VARCHAR(25) NOT NULL)

FD's: Fruit -> is_sweet

Candidate keys: ingredient_id

Normalised:

Juice

<u>Ingredient_id</u> (INT NOT NULL UNIQUE)	Fruit (VARCHAR(25) NOT NULL)

Fruit

<u>Fruit</u> (VARCHAR(25) NOT NULL UNIQUE)	Is_sweet (BOOLEAN NOT NULL)

Drink_requires

<u>drink_ID</u> (INT NOT NULL)	<u>ingredient_ID</u> (INT NOT NULL)	Quantity (FLOAT NOT NULL)

Garnish

<u>ingredient_ID</u> (INT NOT NULL UNIQUE)	Placement (VARCHAR(25) NOT NULL)	Food (VARCHAR(25))

Transaction

<u>transaction_ID</u> (INT NOT NULL UNIQUE AUTO_INCREMENT)	Date (DATE NOT NULL)	drink_ID (INT NOT NULL)	Customer_name (VARCHAR(25) NOT NULL)

Customer

<u>Customer_name</u> (VARCHAR(25) NOT NULL UNIQUE)	DOB (DATE NOT NULL)

Glasses

<u>glass_ID</u> (INT NOT NULL UNIQUE)	Glass_name (VARCHAR(25) NOT NULL)