



Data Dictionary

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Actual database

Data Dictionary: The Data Dictionary for Mocha Point outlines the structure and rules for the data used in the system, helping ensure accurate tracking of inventory, drink ingredients, unit notification logs, units, and User settings. It includes detailed descriptions of each table and field, along with its data types and validation rules. This reference is for managing Mocha Point's system, as it supports consistent data entry, system functionality, and inventory accuracy across the café's operations.

Inventory Table

Key	Field name	Field type	Description	Validation
PK	InventoryID	Int	Unique identifier for each inventory item	Must be a positive integer
	IngredientName	text	Name of the ingredient	Must be a non-empty string
	Unit	text	Measurement unit for the ingredient	Must be one of ["oz", "ml", "lb"]
	Quantity	real	Current quantity in stock	Must be a positive decimal number
	Threshold	Int	Minimum quantity before restocking	Must be a non-negative integer
	UnitConversion	text	Description or rate of unit conversion	Must be a non-negative integer

DrinkIngredients Table

Key	Field name	Field type	Description	Validation
PK	DrinkIngredientID	Int	Unique identifier for the drink-ingredient pair	Must be a positive integer
	DrinkName	Text	Name of the drink	Must be a non-empty string
	IngredientName	Text	Name of the ingredient used	Must match existing ingredient name
	Quantity	Real	Amount of the ingredient used in the drink	Must be a positive decimal number

NotificationLog Table

Key	Field name	Field type	Description	Validation
PK	NotificationLogID	Int	Unique ID for each notification entry	Must be a positive integer
	IngredientName	Text	Ingredient that triggered the alert	Must match an inventory item
	AlertDateTime	Text/Date	Date and time the alert was generated	Must be a valid date-time string
	QuantityAlert	Real	Quantity level at the time of alert	Must be a non-negative decimal

Units Table

Key	Field Name	Field Type	Description	Validation
PK	UnitName	String	Name of the measurement unit	Must be a non-empty string
	BaseUnit	String	Base unit of measurement	Must be a valid base unit (e.g., "oz", "ml", "lb")
	ConversionToBase	Decimal	Conversion rate to base unit	Must be a positive decimal number
	Serving	String	Serving size description	Must be a non-empty string

UserSettings Table

Key	Field Name	Field Type	Description	Validation
PK	ID	String	User ID for login	Must be a unique non-empty string
	Password	String	User's login password	Must be a non-empty string, hashed