Database model documentation

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1. Model details

Model name:

SumaqMikuy-DiseñoFisico

Version:

2.4

Database engine:

MySQL

Description:

2. Tables

2.1. Table CUSTOMERS

Description:

Register all types of system users (administrator, customer, waiter, kitchen).

2.1.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique user identifier.
names	varchar(100)		User names.
last name	varchar(100)		Apellidos del usuario.
email	varchar(50)		Unique email address for identification and access.
address	varchar(150)		User contact address.
cell phone	char(8)		User's cell phone number.
registration_date	datetime		Date and time the customer registered
status	char(1)		Account status (active, inactive, deleted).
ubigeo	char(6)		It contains the customer's origin ubigeo code
UBIGEO_code	char(6)		It contains the ubigeo code according to reniec

2.2. Table TABLES

Description:

It contains information about the restaurant tables.

2.2.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Identificador único de la mesa.
table_number	int		Visible number assigned to the table.
quantity	int		Number of people at the table.
location	varchar(100)		Place inside the restaurant.

description	varchar(200)		Additional information about the table.
status	char(1)		Current status of the table (available, reserved, occupied).

2.3. Table MENU_CATEGORIES

Description:

Classify the restaurant's dishes.

2.3.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique category identifier.
names	varchar(100)		Menu category name.
description	varchar(200)		Details or explanation of the category.
order	int		Position in the menu list.
status	char(1)		Indicates whether the category is active or inactive.

2.4. Table DISHES

Description:

It represents the dishes available on the restaurant's menu.

2.4.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique identifier of the dish.
category_id	int		Link to the dish category.
name	varchar(20)		Name of the dish.
description	varchar(150)		Explanation or details of the dish.
preci	decimal(10,2)		Selling price of the dish.
preparation_time	timestamp		Approximate preparation time in minutes.
ingredients	varchar(200)		Main ingredients of the dish.
status	char(1)		Dish status (active or

			inactive).
CATEGORIES_MENU_identifier	int		Unique category identifier.

2.5. Table RESERVATIONS

Description:

It records table reservations made by users.

2.5.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique reservation identifier.
costumer_id	int		User who made the reservation.
table_id	int		Table assigned to the reservation.
people_count	int		Number of people who will attend.
reservation_date	datetime		Reservation date.
hora_reserva	timestamp		Scheduled arrival time.
notes	varchar(150)		Observations or special requests.
status	char(1)		Reservation status (pending, confirmed, cancelled).
CLIENTS_identifier	int		Unique user identifier.
TABLES_identifier	int		Unique table identifier.

2.6. Table ORDERS

Description:

Save orders made at a table or from a reservation.

2.6.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique order identifier.
costumer_id	int		User or waiter who registers the order.
table_id	int		Table associated with the order.
reservation_id	int		Reservation of origin if applicable.

order_date	datetime		Date and time the order was registered.
total	decimal(10,2)		Monto total del pedido.
payment_method	varchar(30)		Payment method: cash, card, Yape, Plin, or bank transfer.
notes	varchar(150)		Special notes or instructions for the kitchen.
status	char(1)		Order status (pending, served, paid).
CLIENTS_identifier	int		Unique user identifier.
RESERVATIONS_identifier	int		Unique reservation identifier.
TABLES_identifier	int		Unique table identifier.

2.7. Table ORDER DETAILS

Description:

Record each item included within an order.

2.7.1. Columns

Column name	Type	Properties	Description
identifier	int	PK	Unique identifier of the detail.
order_id	int		Order to which the detail belongs.
dish_id	int		Dish selected in the order.
quantity	int		Number of units requested.
unit_price	decimal(10,2)		Price of the dish at the time of ordering.
subtotal	decimal(10,2)		Total for the requested amount.
notes	varchar(150)		Comments on the requested dish.
status	char(1)		Status of detail (active or inactive).
PLATES_identifier	int		Unique identifier of the dish.
ORDERS_identifier	int		Unique order identifier.

2.8. Table UBIGEO

Description:

The ubigeo field was added to record the user's location.

2.8.1. Columns

Column name	Type	Properties	Description
code	char(6)	PK	It contains the ubigeo code according to reniec
department	varchar(120)		It contains the departments of Peru
province	varchar(120)		Stores the name of the province corresponding to the department.
district	varchar(120)		Stores the district name within the province.

3. References

3.1. Reference RESERVAS_USUARIOS

Description:

Un usuario puede registrar varias reservas.

CUSTOMERS	0..*	RESERVATIONS
identifier	<->	CLIENTS_identifier

3.2. Reference PEDIDOS_USUARIOS

Description:

Un usuario puede registrar varios pedidos.

CUSTOMERS	0..*	ORDERS
identifier	<->	CLIENTS_identifier

3.3. Reference PEDIDOS_RESERVAS

RESERVATIONS	0..*	ORDERS
identifier	<->	RESERVATIONS_identifier

3.4. Reference RESERVAS_MESAS

Description:

Una mesa puede ser reservada varias veces.

TABLES	0..*	RESERVATIONS
identifier	<->	TABLES_identifier

3.5. Reference PEDIDOS_MESAS

Description:

Una mesa puede recibir muchos pedidos.

TABLES	0..*	ORDERS
identifier	<->	TABLES_identifier

3.6. Reference PLATOS_CATEGORIAS_MENU

Description:

Una categoría tiene muchos platos.

MENU_CATEGORIES	0..*	DISHES
identifier	<->	CATEGORIES_MENU_identifier

3.7. Reference DETALLE_PEDIDO_PLATOS

Description:

Un plato puede aparecer en muchos pedidos.

DISHES	0..*	ORDER DETAILS
identifier	<->	PLATES_identifier

3.8. Reference DETALLE_PEDIDO_PEDIDOS

Description:

Un pedido contiene varios detalles.

ORDERS	0..*	ORDER DETAILS
identifier	<->	ORDERS_identifier

3.9. Reference CLIENTES_UBIGEO

Description:

Un cliente tiene varios ubigeos

UBIGEO	0..*	CUSTOMERS
code	<->	UBIGEO_code