Database model documentation

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1. Model details

Model name:

DF_RestLosPinos

Version:

2.4

Database engine:

Oracle Database

Description:

This logical layout will show the flow or sequence that the Los Pinos restaurant follows for customer payments and reservations. This logical layout will show the flow or sequence that the Los Pinos restaurant follows for customer payments and reservations.

2. Tables

2.1. Table table

Description:

Each reservation is assigned a single table, and each table can only be in one reservation at a given time.

2.1.1. Columns

Column name	Type	Properties	Description
table_id	integer	PK	Unique identifier for the table (Primary Key).
table_number	integer		Assigned number for the table in the restaurant.
ability	integer		Number of people that can sit at the table.
state	char(1)		Table status (available, occupied, reserved, etc.).

2.2. Table reservation_detail

Description:

Contains the details of the reservation made by the client.

2.2.1. Columns

Column name	Type	Properties	Description
id_reservacion_detalle	integer	PK	Unique identifier for the reservation detail (Primary Key).
number_people	integer		Number of people included in the reservation.
reservation_method	varchar2(50)		Reservation method (online, phone, in-person).
request	varchar2(200)		Special observations for the reservation.
table_id	integer		Relationship with the table "mesa" (Foreign Key).

reservation_id	integer		Relationship with the reservation table (Foreign key).

2.3. Table reservation

Description:

Stores information about reservations made by customers.

2.3.1. Columns

Column name	Type	Properties	Description
reservation_id	integer	PK	Unique identifier for the reservation (Primary Key).
reservation_name	varchar2(90)		Name of the reservation or client name.
date	timestamp		Date and time of the reservation.
id_type_state	integer		Reservation status (Foreign Key).
user_id	integer		User who made the reservation (Foreign Key).

2.4. Table restaurant_user

Description:

Stores information about users who interact with the system, such as administrators and waiters.

2.4.1. Columns

Column name	Type	Properties	Description
user_id	integer	PK	Unique identifier for the user (Primary Key).
user_name	varchar2(20)		Contains the username.
password	varchar2(90)		System access password.
names	varchar2(90)		Full names of the user.
surnames	varchar2(90)		Full surname of the user.
date_of_birth	date		User's date of birth.

address	varchar2(150)		User address.
telephone	char(9)		Contact cell phone number.
email	varchar2(150)		Contact email.
document_type	varchar2(5)		Type of identification document.
number_type	varchar2(20)		Identification document number.
state	char(1)		Indicates whether the user is active or inactive in the system.
user_type_id	integer		User type (Foreign Key).

2.5. Table user_type

2.5.1. Columns

Column name	Type	Properties	Description
user_type_id	integer	PK	Unique identifier for the user type (Primary Key).
name	varchar2(90)		User type name (e.g., client, administrator).

2.6. Table product

2.6.1. Columns

Column name	Type	Properties	Description
product_id	integer	PK	Unique identifier for the product (Primary Key).
image	varchar2(255)		URL of the product image.
name	varchar2(150)		Product name.
description	varchar2(200)		Product description.
price	number(6,2)		Product price.
state	char(1)		Product status (available/not available).

category_id	integer		Category to which the product belongs (Foreign Key).

2.7. Table category

2.7.1. Columns

Column name	Type	Properties	Description
category_id	integer	PK	Unique identifier for the category (Primary Key).
name	varchar2(150)		Category name for the product.
state	char(1)		Category status (active/inactive).

2.8. Table sales_ticket

2.8.1. Columns

Column name	Type	Properties	Description
ticket_id	integer	PK	Unique identifier for the sales ticket (Primary Key).
date	timestamp		Date and time of the sale.
total_payment	number(6,2)		Total amount paid.
delivery	varchar2(2)		Indicates if the purchase is for home delivery.
delivery_address	varchar2(150)		Delivery address (if applicable).
note	varchar2(200)	null	Comments or notes about the sale.
user_id	integer		User who made the purchase (Foreign Key).
id_type_state	integer		Order status (Foreign Key).
id_payment_type	integer		Payment method used (Foreign Key).

2.9. Table order_status_type

2.9.1. Columns

Column name	Type	Properties	Description
id_type_state	integer	PK	Unique identifier for the order status (Primary Key).
name	varchar2(90)		Order status name (pending, delivered, canceled, etc.).

2.10. Table payment_type

2.10.1. Columns

Column name	Type	Properties	Description
id_payment_type	integer	PK	Unique identifier for the payment type (Primary Key).
name	varchar2(90)		Name of the payment method (e.g., cash, card, PayPal, etc.).

2.11. Table product_detail

2.11.1. Columns

Column name	Type	Properties	Description
id_detail_product	integer	PK	Unique identifier for the product detail (Primary Key).
amount	integer		Quantity of products sold in the transaction.
ticket_id	integer		Relationship with the sales ticket (Foreign Key).
product_id	integer		Relationship with the sold product (Foreign Key).

3. References

3.1. Reference reservation_detail_table

Description:

A table can have many reservation details, but each reservation detail is associated with a single table.

table	1..*	reservation_detail
table_id	<->	table_id

3.2. Reference reservation_detail_reservation

Description:

A reservation can have many reservation details, but each reservation detail belongs to a single reservation.

reservation	1..*	reservation_detail
reservation_id	<->	reservation_id

3.3. Reference restaurant_user_user_type

Description:

A user can have only one user type, but one user type can be assigned to many users.

user_type	0..*	restaurant_user
user_type_id	<->	user_type_id

3.4. Reference reservation_restaurant_user

Description:

A user can make multiple reservations, but each reservation belongs to a single user.

restaurant_user	0..*	reservation
user_id	<->	user_id

3.5. Reference sales_ticket_restaurant_user

Description:

A user can make many purchases (sales tickets), but each sales ticket belongs to a single user.

restaurant_user	0..*	sales_ticket
user_id	<->	user_id

3.6. Reference sales_ticket_order_status_type

Description:

An order status can apply to many sales, but each sale has only one status.

order_status_type	0..*	sales_ticket
id_type_state	<->	id_type_state

3.7. Reference sales_ticket_payment_type

Description:

A payment type can be on many sales tickets, but each sales ticket only has one payment type.

payment_type	0..*	sales_ticket
id_payment_type	<->	id_payment_type

3.8. Reference product_detail_sales_ticket

Description:

A sales ticket can contain many products, but each product detail belongs to a single ticket.

sales_ticket	0..*	product_detail
ticket_id	<->	ticket_id

3.9. Reference product_detail_product

Description:

A product can be in many sales, but each product detail refers to a single product.

product	0..*	product_detail
product_id	<->	product_id

3.10. Reference product_id_category

Description:

A category can contain many products, but each product belongs to only one category.

category	0..*	product
category_id	<->	category_id

4. Areas

4.1. Developer 1 subject area

4.1.1. Tables

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- reservation

4.1.2. References

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- reservation_restaurant_user
- sales_ticket_restaurant_user
- sales_ticket_order_status_type
- sales_ticket_payment_type
- product_detail_sales_ticket
- product_detail_product
- product_id_category

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4.2.1. Tables

- product
- sales_ticket
- product_detail

4.2.2. References

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- reservation_restaurant_user
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- sales_ticket_order_status_type
- sales_ticket_payment_type
- product_detail_sales_ticket
- product_detail_product
- product_id_category

4.3. Datasoft subject area

4.3.1. Tables

- restaurant_user
- user_type
- category
- order_status_type

4.3.2. References

- reservation_detail_table
- reservation_detail_reservation
- restaurant_user_user_type
- reservation_restaurant_user
- sales_ticket_restaurant_user
- sales_ticket_order_status_type
- sales_ticket_payment_type
- product_detail_sales_ticket
- product_detail_product
- product_id_category