

## Data Dictionary Final Project

### Context:

The store I'm creating a database for is a pet supplies store, this store will have supplies for these animal species: Dogs, Cats, Birds, Reptiles, Small mammals (rabbits, hamsters), and Fish.

This store will manage purchases directly in the store, accepting payment methods such as: cash, debit card, credit card, PayPal, etc. The store purchases many products from various suppliers.

### Entity: Product

The "Product" relation represents individual pet products available for sale in the store.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>product_sku</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps keep track of products. It will help localize specific products in a fast way. The code must begin with the product category, followed with the product name, and finally with a numerical unique identifier.	PT-DOG-CHEWTOY-12345  "PT": Represents the product category, "Pet Toys."  "DOG": Indicates the pet specie, "Dog."  "CHEWTOY": Represents the product name, "Chew Toy."  "12345": This part is a unique identifier associated with this specific product variant.
<b>product_name</b>	varchar	255				Helps identify what the products are.	Beds, Cages, Treats, Chew toys.
<b>product_description</b>	varchar	255		<input checked="" type="checkbox"/>		Helps to know more about the product, such as its features, benefits, and any relevant information for customers.	Quality dog food with natural ingredients.

<b>product_price</b>	decimal	Precision : 6 Scale: 2				Helps to identify the monetary value of the product in pesos. It must have 2 decimal points.	\$300.00
<b>product_unit_of_measurement</b>	varchar	255		<input checked="" type="checkbox"/>		Helps to know how the product is measured.	4 kg, 10 pounds, 1 piece
<b>product_pet_species</b>	varchar	255				Helps to identify easily the products for a pet, as it exists a classification.	Dog, Cat, Bird.
<b>product_stock</b>	integer	10				Helps to keep track of the current quantity of the product available in the store. This is necessary as it tells if a product is available.	40
<b>category_category_id</b>	varchar	255				Helps to know what category the product falls into. It is the foreign key linking the product to a category in the "Category" relation. It is the foreign key that relates a specific category to the product.	CAT005 "CAT" abbreviation for "Category". "005" is a unique numerical identifier for each category.

### Entity: Category

The "Category" relation provides a structured and organized classification system for the various types of pet products available in the store. This relation plays a key role in categorizing and grouping products to enhance navigation and facilitate effective inventory management.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>category_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the category of a product. The code must begin with "CAT" and next to it a unique numerical identifier.	CAT005 "CAT" abbreviation for "Category". "005" is a unique numerical identifier for each category.
<b>category_name</b>	varchar	255				Helps break down the products into different categories.	Pet supplies, Health and Wellness, Pet Hygiene

### Entity: Inventory

The "Inventory" relation is a central component of the database designed to comprehensively manage and record all inventory-related transactions and movements within the store.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>inventory_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps as a reference to a specific inventory event. This allows to identify individual	INV2023-001

						movements or changes in inventory. The code must begin with "INV" and next to it the year of the transaction, and finally a unique numerical identifier,	"INV" denotes inventory transactions. "2023" represents the year of the transaction. "001" is a unique numerical identifier for each inventory transaction.
<b>inventory_quantity_change</b>	integer	10				Helps to know how much products were added or reduced. Positive values represent additions, while negative values represent deductions.	-30
<b>inventory_movement_type</b>	varchar	255				Helps to know if products were added or reduced. Purchase means addition, Return means reduction.	Purchase, Return
<b>inventory_movement_date</b>	timestamp	0				Helps to record the date and time when an inventory movement occurred. This to easily track movements. It must follow the format: YYYY-DDTHH hh:mm:ss	2023-09-15 14:30:00
<b>product_product_sku</b>	varchar	255				This is the foreign key that references the SKU (Stock Keeping Unit) of the product involved. It is the foreign key from the Product relation.	PT-DOG-CHEWTOY-12345 "PT": Represents the product category, "Pet Toys." "DOG": Indicates the pet specie, "Dog." "CHEWTOY": Represents the product name, "Chew Toy." "12345": This part is a unique identifier associated with this specific product variant.

### Entity: Employee

The "Employee" relation is designed to store information about the individuals employed at the pet supply store. This relation helps manage the workforce, track employee details, and oversee staff roles and responsibilities.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>employee_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to identify the employee with his unique id. The code must begin with "EMP" and next to it a unique numerical identifier.	EMP001 "EMP" serves as an abbreviation for employees. "001" is a unique numerical identifier for each employee.
<b>employee_first_name</b>	varchar	255				Helps to provide their personal identification.	Regina
<b>employee_last_name</b>	varchar	255				Helps to complete their personal identification.	Ochoa Gonzalez
<b>employee_position</b>	varchar	255				Helps to know the job position held by the employee within the store.	Cashier, Store Manager
<b>employee_hire_date</b>	date	0				Helps to have the record of the date when the employee was hired or started working at the store. It must follow the format: YYYY-DDTHH	2023-07-10
<b>employee_salary</b>	decimal	Precision: 6 Scale: 2				Helps to know the salary for the employee according to their position, the value must be in pesos and have 2 decimal places.	\$8000.00
<b>employee_contact_info</b>	varchar	255		<input checked="" type="checkbox"/>		Helps to have a way to contact the employee. This may include contact details like the email address or phone number. In case of a phone number, it must not exceed 16 digits, and the email must include the special character (@).	reginaochoa@hotmail.com
<b>employee_address</b>	varchar	255		<input checked="" type="checkbox"/>		Helps to have the physical address of the employee, in case of an emergency.	Valle de Ulua 3, Condominio Citea, Zibatá, Queretaro, 76269
<b>employee_status</b>	bit	0				Helps to know if the employee is still working or not. Active means he/she is, and Inactive means he/she isn't.	Active, Inactive
<b>employee_employee_id</b>	varchar	255				Helps to know if an employee has a responsibility over one or more employees. This is the foreign key that can be used to represent a hierarchical relationship within the employee relation, such as a supervisor-subordinate relationship.	EMP002 "EMP" serves as an abbreviation for employees. "002" is a unique numerical identifier for each employee.

**Entity: Client**

The "Client" relation is designed to store and manage essential information about the customers who visit and shop at the pet supply store. This relation helps maintain customer records, track their interactions, and provide personalized services.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>client_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the client. The code must begin with "CLI" and next to it a unique numerical identifier.	CLI001 "CLI" is the abbreviation for "Client." "001" is a unique numerical identifier for each client.
<b>client_first_name</b>	varchar	255				Helps to provide their personal identification and identify who is the client.	Ricardo
<b>client_last_name</b>	varchar	255				Helps to complete their personal identification and have more accurate searches.	Gomez Perez
<b>client_email</b>	varchar	255				Helps to have a contact point for communication. This must include the special character (@).	ricardogomez@h otmail.com
<b>client_phone_number</b>	integer	12		<input checked="" type="checkbox"/>		Helps to have another way of contacting the client. It must not exceed 16 digits.	8781162012
<b>client_address</b>	varchar	255		<input checked="" type="checkbox"/>		Helps to store the physical address of the client, which may include details like street address, city, state, and postal code.	Valle de Ulua 3, Condominio Citea Zibatá, Queretaro, 76269

**Entity: Payment\_method**

The "Payment\_method" relation is responsible for storing information related to various payment methods accepted at the pet supply store. This relation facilitates the processing of transactions and allows tracking and management of payment options available to the customers.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>payment_method_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the payment method. The code must begin with "PAY" and next to it a unique numerical identifier.	PAY001 "PAY" is the abbreviation for payment methods. "001" is a unique numerical identifier for each payment method.

<b>payment_method_name</b>	varchar	255				Helps to know what is the payment method	Credit card, PayPal, Cash
<b>payment_method_is_active</b>	bit	0		<input checked="" type="checkbox"/>		Helps to know if the payment method is currently active and available for use. Only applies on cards. Available means it is active, Not Available not active.	Available, Not Available

### Entity: Client\_payment\_method

The "Client\_Payment\_method" relation allows to associate specific payment methods with individual clients/customers. This relation allows to store and manage the payment preferences of the clients.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>client_client_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the client. It is the foreign key that associates a client with a specific payment method. The code must start with "CLI" and next to it a unique numerical identifier.	CLI001 "CLI" is the abbreviation for "Client". "001" is a unique numerical identifier for each client.
<b>payment_method_payment_method_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the payment method. It is the foreign key that links the client to a payment method they have registered or chosen to use. The code must begin with "PAY" and next to it a unique numerical identifier.	PAY001 "PAY" is the abbreviation for payment methods. "001" is a unique numerical identifier for each payment method.

### Entity: Order\_made

The "Order" relation is designed to store comprehensive information about customer orders placed at the pet supply store.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>order_made_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to identify easily the order that is being made. The code must begin with "ORD" and next to it a unique numerical identifier.	ORD001 "ORD" indicates customer orders. "001" is a unique numerical identifier for each order.
<b>order_made_date</b>	timestamp	0				Helps to know when was the order made by the client. It must follow the format: YYYY-DDTHH hh:mm:ss	2023-09-16 16:30:00.

<b>order_made_status</b>	varchar	255				Helps to know if the order was completed or canceled.	Completed, Canceled.
<b>order_made_total_amount</b>	decimal	Precision: 6 Scale: 2				Helps to know the total amount of the order. This is in pesos and must have 2 decimal places.	\$1,000.00
<b>client_client_id</b>	varchar	255				Helps to know the client who made the order. The code must begin with "CLI" and next to it a unique numerical identifier. It is the foreign key that relates a specific client to an order made.	CLI001 "CLI" is the abbreviation for "Client". "001" is a unique numerical identifier for each client.
<b>employee_employee_id</b>	varchar	255				Helps to identify the employee who assisted the client. The code must begin with "EMP" and next to it a unique numerical identifier. It is the foreign key that relates a specific employee to an order being made.	EMP001 "EMP" serves as an abbreviation for employees. "001" is a unique numerical identifier for each employee.

### Entity: Order\_detail

The "Order\_Detail" relation stores detailed information about individual products or items included in customer orders. This relation helps to track the contents of each order, calculate subtotals, and manage inventory effectively.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>order_detail_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to easily identify the order details specifically. The code must begin with "DET" and next to it a unique numerical identifier.	DET001 "DET" is an abbreviation of "Details". "001" is a unique identifier.
<b>order_detail_quantity</b>	integer	10				Helps to know the quantity of a specific product ordered within the order detail. It represents the number of units or items for that product.	3
<b>product_product_sku</b>	varchar	255				Helps to know the products that are involved in the order. It references the SKU (Stock Keeping Unit) of the product. It is the foreign key. The code must begin with the category of the product, next to it the pet specie, after the product name, and finally a unique numerical identifier.	PT-DOG-CHEWTOY-12345 "PT": Represents the product category, "Pet Toys." "DOG": Indicates the pet specie, "Dog." "CHEWTOY": Represents the

							product name, "Chew Toy." "12345": This part is a unique identifier associated with this specific product variant.
<b>Order_made_order_made_id</b>	varchar	255				Helps to know which order we're adding details to. This is the foreign key that associates the order detail with the parent order. The code must begin with "ORD" and next to it a unique numerical identifier.	ORD001 "ORD" indicates customer orders. "001" is a unique numerical identifier for each order.

### Entity: Supplier

The "Supplier" relation is designed to store essential information about the suppliers from whom the pet supply store procures products and inventory. This relation enables to manage supplier relationships, track contact details, etc.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>supplier_id</b>	varchar	255	☑		☑	Helps to identify a specific supplier. The code must begin with "SUP" and next to it the year when the supplier is associated, and finally a unique numerical identifier.	SUP2023-001 "SUP" is the abbreviation for "Supplier". "2023" represents the year when the supplier is associated or established. "001" is a unique numerical identifier for each supplier.
<b>supplier_name</b>	varchar	255				Helps to know the name of the supplier and a way to identify them.	PetPro Distributors
<b>supplier_contact_name</b>	varchar	255		☑		Helps to know the person within the supplier's organization who serves as the primary point of contact for the pet store.	John Smith
<b>supplier_phone_number</b>	integer	12				Helps to know the contact phone number for the supplier.	8781162012
<b>supplier_email</b>	varchar	255		☑		Helps to have the email address for the supplier's contact person or the company's general contact email. This must include the special character (@).	info@petprodistributors.com



<b>supplier_address</b>	varchar	255				Helps to have the physical address of the supplier's business location in case of wanting to go directly to them.	789 Oak Avenue, Supplier City, USA
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### Entity: Supplier\_purchase

The "Supplier\_Purchase" relation records and tracks transactions involving the products and inventory from the suppliers. It helps manage supplier interactions, monitoring purchase history, etc.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>supplier_purchase_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Helps to identify each supplier purchase transaction. The code must begin with "SP" and next to it a unique numerical identifier.	SP001 "SP" is the abbreviation of "Supplier Purchase". "001" is the unique numerical identifier.
<b>supplier_purchase_date</b>	date	0				Helps to know when did the supplier purchase transaction occurred. It must follow the format: YYYY-DDTHH	2023-09-30
<b>supplier_purchase_amount</b>	integer	10				Helps to know the quantity or amount of products purchased from the supplier in the transaction.	300
<b>supplier_purchase_total</b>	decimal	Precision: 7 Scale:2				Helps to know and register the total cost of the purchase from the supplier. It must be in pesos and have 2 decimal places.	\$5,000.00
<b>supplier_purchase_payment_method</b>	varchar	255				Helps to specify the payment method used for the supplier purchase.	Credit Card, Paypal, Cash
<b>supplier_supplier_id</b>	varchar	255				This is the foreign key that links the supplier purchase to a specific supplier. It references the unique identifier of the supplier in the "Suppliers" relation. It helps to know the supplier from whom we're buying.	SUP2023-001 "SUP" is the abbreviation for "Supplier". "2023" represents the year when the supplier is associated or established. "001" is a unique numerical identifier for each supplier.
<b>employee_employee_id</b>	varchar	255				This is the foreign key that associates the supplier purchase with the employee who made or managed the	EMP001 "EMP" serves as an abbreviation for employees.

						purchase. It references the unique identifier of the employee in the "Employee" relation. It helps to know the employee who made the purchase.	"001" is a unique numerical identifier for each employee.
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### Entity: Product\_Supplier\_purchase

The "Product\_Supplier\_purchase" relation serves as a bridge between products and supplier purchases. This relation tracks the relationship between specific products and the supplier purchases associated with them.

Name	Type	Length	Primary Key	Nullable	Unique	Description	Example
<b>product_product_sku</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	This is the foreign key that associates a product with a supplier purchase. It references the unique identifier of the product in the "Product" relation. The code must begin with the product category, followed with the product name, and finally with a numerical unique identifier	PT-DOG-CHEWTOY-12345 "PT": Represents the product category, "Pet Toys." "DOG": Indicates the pet specie, "Dog." "CHEWTOY": Represents the product name, "Chew Toy." "12345": This part is a unique identifier associated with this specific product variant.
<b>supplier_purchase_supplier_purchase_id</b>	varchar	255	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	This is the foreign key that links the product to a supplier purchase. It references the unique identifier of the supplier purchase in the "Supplier_purchase_supplier_purchase_id" relation. The code must begin with "SP" and next to it a unique numerical identifier.	SP001 "SP" is the abbreviation of "Supplier Purchase". "001" is the unique numerical identifier.