



COSTA RICA INSTITUTE OF TECHNOLOGY

COMPUTER ENGINEERING SCHOOL

IC4301 DATABASES I
GROUP 02

Project II: MyPetCR

Data Dictionary

Professor:

Diego Mora Rojas

Authors:

Andres Arias Corrales
Anthony Barrantes Jimenez
Fabricio Solis Alpizar
Pavel Zamora Araya
Víctor Aymerich Quesada

I semestre, 2024

Address

Column	Data Type	Description	Null	Calculation Rule
IDAddress	int	Unique identifier for each address	No	Auto-incremented value starting from 1
IDClient	int	Foreign key referencing the client	No	Must match an existing IDClient in the Client table
Province	nvarchar(16)	Province of the address	No	Must not be null
City	nvarchar(64)	City of the address	No	Must not be null
District	nvarchar(64)	District of the address	No	Must not be null
ZIPCode	nvarchar(10)	ZIP code of the address	Yes	Optional; if provided, must follow the format for ZIP codes
Description	nvarchar(512)	Additional description of the address	Yes	Optional; descriptive text about the address

Appointment

Column	Data Type	Description	Null	Calculation Rule
IDAppointment	int	Unique identifier for each appointment	No	Auto-incremented value starting from 1
IDPet	int	Foreign key referencing the pet	No	Must match an existing IDPet in the Pet table
IDEmployee	int	Foreign key referencing the employee	No	Must match an existing IDEmployee in the Employee table
IDStore	int	Foreign key referencing the store	No	Must match an existing IDStore in the Store table
IDStatus	int	Foreign key referencing the status type	No	Must match an existing IDStatus in the StatusType table
DateTime	datetime	Timestamp of the appointment	No	Default to current date and time if not provided

Breed

Column	Data Type	Description	Null	Calculation Rule
IDBreed	int	Unique identifier for each breed	No	Auto-incremented value starting from 1
Name	nvarchar(128)	Name of the breed	No	Must not be null

Cart

Column	Data Type	Description	Null	Calculation Rule
IDClient	int	Foreign key referencing the client	No	Must match an existing IDClient in the Client table
IDProduct	int	Foreign key referencing the product	No	Must match an existing IDProduct in the Product table
Quantity	int	Quantity of the product in the cart	No	Must be a non-negative integer

Client

Column	Data Type	Description	Null	Calculation Rule
IDClient	int	Unique identifier for each client	No	Auto-incremented value starting from 1
IDUser	int	Foreign key referencing the user	No	Must match an existing IDUser in the User table
Name	nvarchar(255)	Full name of the client	No	Must not be null
PhoneNumber	nvarchar(20)	Contact phone number of the client	Yes	Optional; if provided, must follow the format for phone numbers

Employee

Column	Data Type	Description	Null	Calculation Rule
IDEmployee	int	Unique identifier for each employee	No	Auto-incremented value starting from 1
IDUser	int	Foreign key referencing the user	No	Must match an existing IDUser in the User table
Name	nvarchar(255)	Full name of the employee	No	Must not be null
PhoneNumber	nvarchar(20)	Contact phone number of the employee	Yes	Optional; if provided, must follow the format for phone numbers

Inventory

Column	Data Type	Description	Null	Calculation Rule
IDProduct	int	Foreign key referencing the product	No	Must match an existing IDProduct in the Product table
IDStore	int	Foreign key referencing the store	No	Must match an existing IDStore in the Store table
Quantity	int	Quantity of the product in the store	No	Must be a non-negative integer

Invoice

Column	Data Type	Description	Null	Calculation Rule
IDInvoice	int	Unique identifier for each invoice	No	Auto-incremented value starting from 1
IDAppointment	int	Foreign key referencing the appointment	No	Must match an existing IDAppointment in the Appointment table
IDClient	int	Foreign key referencing the client	No	Must match an existing IDClient in the Client table
IDPayment	int	Foreign key referencing the payment	No	Must match an existing IDPayment in the Payment table
IDStatus	int	Foreign key referencing the status type	No	Must match an existing IDStatus in the StatusType table
DateTime	datetime	Timestamp of the invoice	No	Default to current date and time if not provided

InvoiceDetail

Column	Data Type	Description	Null	Calculation Rule
IDInvoiceDetail	int	Unique identifier for each invoice detail	No	Auto-incremented value starting from 1
IDInvoice	int	Foreign key referencing the invoice	No	Must match an existing IDInvoice in the Invoice table
IDProduct	int	Foreign key referencing the product	No	Must match an existing IDProduct in the Product table
Description	nvarchar(512)	Description of the product or service in the invoice detail	Yes	Optional; descriptive text about the product or service
Quantity	int	Quantity of the product or service	No	Must be a non-negative integer
Price	money	Price of the product or service	No	Must be a positive monetary value

Log

Column	Data Type	Description	Null	Calculation Rule
IDLog	int	Unique identifier for each log entry	No	Auto-incremented value starting from 1
IDLogType	int	Foreign key referencing the log type	No	Must match an existing IDLogType in the LogType table
IDUser	int	Foreign key referencing the user	No	Must match an existing IDUser in the User table
DateTime	datetime	Timestamp of the log entry	No	Default to current date and time if not provided
Description	nvarchar(255)	Description of the log entry	Yes	Optional text describing the log entry

LogType

Column	Data Type	Description	Null	Calculation Rule
LogType	int	Unique identifier for each log type	No	Auto-incremented value starting from 1
Name	int	Name of the log type	No	Must not be null and should be descriptive

Payment

Column	Data Type	Description	Null	Calculation Rule
IDPayment	int	Unique identifier for each payment	No	Auto-incremented value starting from 1
IDPaymentType	int	Foreign key referencing the payment type	No	Must match an existing IDPaymentType in the PaymentType table
Name	nvarchar(64)	Name of the payment method	No	Must not be null

PaymentType

Column	Data Type	Description	Null	Calculation Rule
IDPaymentType	int	Unique identifier for each payment type	No	Auto-incremented value starting from 1
Name	nvarchar(64)	Name of the payment type	No	Must not be null

Pet

Column	Data Type	Description	Null	Calculation Rule
IDPet	int	Unique identifier for each pet	No	Auto-incremented value starting from 1
IDBreed	int	Foreign key referencing the breed	No	Must match an existing IDBreed in the Breed table
IDClient	int	Foreign key referencing the client	No	Must match an existing IDClient in the Client table
Name	nvarchar(128)	Name of the pet	No	Must not be null
Birthdate	date	Birthdate of the pet	Yes	Optional; if provided, must be a valid date
Weight	int	Weight of the pet	Yes	Optional; if provided, must be a non-negative integer
Notes	nvarchar(512)	Additional notes about the pet	Yes	Optional; descriptive text about the pet

Product

Column	Data Type	Description	Null	Calculation Rule
IDProduct	int	Unique identifier for each product	No	Auto-incremented value starting from 1
IDProductType	int	Foreign key referencing the product type	No	Must match an existing IDProductType in the ProductType table
Name	nvarchar(255)	Name of the product	No	Must not be null
Description	nvarchar(512)	Description of the product	Yes	Optional; descriptive text about the product
Price	money	Price of the product	No	Must be a positive monetary value
URL	nvarchar(1028)	URL of the product picture	No	Must not be null

ProductType

Column	Data Type	Description	Null	Calculation Rule
IDProductType	int	Unique identifier for each product type	No	Auto-incremented value starting from 1
Name	nvarchar(255)	Name of the product type	No	Must not be null

Review

Column	Data Type	Description	Null	Calculation Rule
IDReview	int	Unique identifier for each review	No	Auto-incremented value starting from 1
IDProduct	int	Foreign key referencing the product	No	Must match an existing IDProduct in the Product table
IDClient	int	Foreign key referencing the client	No	Must match an existing IDClient in the Client table
Description	nvarchar(512)	Description of the review	Yes	Optional; text describing the review
Rating	tinyint	Rating given in the review (1-5)	No	Must be an integer between 1 and 5
DateTime	datetime	Timestamp of the review	No	Default to current date and time if not provided

Shipping

Column	Data Type	Description	Null	Calculation Rule
IDShipping	int	Unique identifier for each shipping record	No	Auto-incremented value starting from 1
IDInvoice	int	Foreign key referencing the invoice	No	Must match an existing IDInvoice in the Invoice table
IDAddress	int	Foreign key referencing the address	No	Must match an existing IDAddress in the Address table
IDStatus	int	Foreign key referencing the status type	No	Must match an existing IDStatus in the StatusType table
TrackingID	nvarchar(128)	Tracking ID for the shipping	No	Must be unique

StatusType

Column	Data Type	Description	Null	Calculation Rule
IDStatus	int	Unique identifier for each status type	No	Auto-incremented value starting from 1
Name	nvarchar(64)	Name of the status type	No	Must not be null

Store

Column	Data Type	Description	Null	Calculation Rule
IDStore	int	Unique identifier for each store	No	Auto-incremented value starting from 1
Location	nvarchar(128)	Location of the store	No	Must not be null

User

Column	Data Type	Description	Null	Calculation Rule
IDUser	int	Unique identifier for each user	No	Auto-incremented value starting from 1
IDUserType	int	Foreign key referencing the user type	No	Must match an existing IDUserType in the UserType table
LoginID	nvarchar(64)	Unique login identifier for the user	No	Must be unique and not null
Password	nvarchar(64)	Encrypted password for the user	No	Must be hashed before storage

UserType

Column	Data Type	Description	Null	Calculation Rule
IDUserType	int	Unique identifier for each user type	No	Auto-incremented value starting from 1
Name	nvarchar(64)	Name of the user type	No	Must not be null
Clearance	int	Clearance level for the user type	No	Integer value representing the level of clearance