

CRM Objects



Owner		Table		
Attribute Name	Data Type	Size	Constraint	Notes
OwnerID	number(p,s)	10	PRIMARY KEY	
First_Name	varchar2(size)	40		
Last_Name	varchar2(size)	40	INDEX	Index this field; programming says it will likely be a field used when looking up customers
Phone_Primary	varchar2(size)	9	INDEX	Index this field; programming says it will likely be a field used when looking up customers
Phone_Secondary	varchar2(size)	9		
Address_Street	varchar2(size)	60		
Address_Apt	varchar2(size)	10		
City	varchar2(size)	40		
State	char(size)	2		
Zip	char(size)	5		
Email	varchar2(size)	50		
Alt_Family_Mem_First_Name	varchar2(size)	40		Can pick up animal in lieu of primary parent being unavailable
Alt_Family_Mem_Last_Name	varchar2(size)	40		
Alt_Family_Mem_Phone	varchar2(size)	9		
Emerg_Cont_First_Name	varchar2(size)	40		For when there is an emergency and no other contact is available.
Emerg_Cont_Last_Name	varchar2(size)	40		
Emerg_Cont_Phone	varchar2(size)	9		



Pet		Table		
Attribute Name	Data Type	Size	Constraint	Notes
PetID	number(p,s)	12	PRIMARY KEY	
OwnerID	number(p,s)	10	FOREIGN KEY	
Pet_First_Name	varchar2(size)	40	INDEX	
Pet_Middle_Name	varchar2(size)	40		
SpeciesID	number(p,s)	5	FOREIGN KEY	Yes, technically birds and lizards are not species, and feline, canine are genera but this is how customer requested
BreedID	number(p,s)	5	FOREIGN KEY	
GenderID	number(p,s)	5	FOREIGN KEY	
Coloring	varchar2(size)	30		
Birth_Date	date			
Is_Living	char(size)	1		Y or N; Subtype discriminator
Photo	blob			
Temperament_Notes	varchar2(size)	80		



Pet_Historical		Table		
Attribute Name	Data Type	Size	Constraint	Notes
PetID	number(p,s)	12	PRIMARY KEY	
OwnerID	number(p,s)	10	FOREIGN KEY	
Pet_First_Name	varchar2(size)	40		
Pet_Middle_Name	varchar2(size)	40		
SpeciesID	number(p,s)	5	FOREIGN KEY	Yes, technically birds and lizards are not species, and feline, canine are genera but this is how customer requested
BreedID	number(p,s)	5	FOREIGN KEY	
GenderID	number(p,s)	5		
Coloring	varchar2(size)	30		
Birth_Date	date			
Photo	blob			
Death_Date				May be set when the Is_Living Flag is changed in living pets, or manually changed by staff?
Temperament_Notes	varchar2(size)	80		

✓

Pet_Deceased		Table		
Attribute Name	Data Type	Size	Constraint	Notes
PetID	number(p,s)		5 PRIMARY KEY	
OwnerID	number(p,s)		10 FOREIGN KEY	
Pet_First_Name	varchar2(size)		40	
Pet_Middle_Name	varchar2(size)		40	
SpeciesID	number(p,s)		5 FOREIGN KEY	Yes, technically birds and lizards are not species, and feline, canine are genera but this is how customer requested
BreedID	number(p,s)		5 FOREIGN KEY	
GenderID	number(p,s)		5	
Coloring	varchar2(size)		30	
Birth_Date	date			
Death_Date	date		DEFAULT	Default = NULL will be used as pseudo-Boolean to prevent showing dead animals
Photo	blob			
Is_Living	char(size)		1	Y or N; Subtype discriminator
Temperament_Notes	varchar2(size)		80	

✓

Animal_Breed		Table		
Attribute Name	Data Type	Size	Constraint	Notes
BreedID	int		5 PRIMARY KEY	
SpeciesID	int		5	
Breed_Name	varchar2(size)		25	

✓

Animal_Species		Table		
Attribute Name	Data Type	Size	Constraint	Notes
SpeciesID	int		5	
Species_Name	varchar2(size)		25	

✓

Animal_Gender		Table		
Attribute Name	Data Type	Size	Constraint	Notes
GenderID	int		5	
Gender_Name	varchar2(size)		25	

✓

Grief_Counselor_Alert		Table		
Attribute Name	Data Type	Size	Constraint	Notes
AlertID	number(p,s)		5 PRIMARY KEY	
Alert_Date	date			
PetID	number(p,s)		12	
OwnerID	number(p,s)		10 FOREIGN KEY	It's likely a PL/SQL procedure will be used to fill in this table to prevent transcription errors
Parent_First	varchar2(size)		40	
Parent_Last	varchar2(size)		40	
Pet_First	varchar2(size)		40	
Complete_Date	date		DEFAULT	Default=NULL
Resolution_Notes	clob			
Phone_Primary	varchar2(size)		9	
Death_Date	date		FOREIGN KEY	This may not actually end up being a relational constraint; especially if the table is filled in by PL/SQL

✓	<b>Grief_Counselor_Adoption_V</b>	<b>View</b>
	<b>Fields</b>	<b>Notes</b>
	Parent_First	
	PetID	
	SpeciesID	
	BreedID	
	GenderID	
	Coloring	

✓	<b>Patient_Check_In_V</b>	<b>View</b>
	<b>Fields</b>	<b>Notes</b>
	Pet_First	
	Pet_Middle	
	Parent_Last	
	Parent_First	
	Species	
	Breed	
		May end up getting dropped from the view
	Other_Pet_Names	

✓	<b>Pet_Siblings_V</b>	<b>View</b>
	<b>Fields</b>	<b>Notes</b>
	OwnerID	
	SpeciesID	
	BreedID	
	GenderID	
	Is_Living	
	Pet_First_Name	
	Birth_Date	

Chart Objects

✓	<b>Animal_Facts</b>	<b>Table</b>			
	<b>Attribute Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Notes</b>
	PetID	number(p,s)	12	FORMARY KEY	Child of Pet table
	ChartID	number(p,s)	12	CHECK	LITERALLY THE SAME AS PK PetID here to soothe the concerns of Chief Vet. Will likely not be used. May be able to purge on demonstration
	Pet_First_Name	varchar2(size)	40		
	Pet_Middle_Name	varchar2(size)	40		Most of this table will likely be built with a PL/SQL stored procedure, data entry will be done by Reception and a chart will be created upon a program button push (some SELECT INTO statement, etc.)
	Owner_Last_Name	varchar2(size)	40	INDEX	Assuming Vets will look up animals by human last name?
	SpeciesID	number(p,s)	5	FOREIGN KEY	
	BreedID	number(p,s)	5	FOREIGN KEY	
	GenderID	number(p,s)	5	FOREIGN KEY	
	Coloring	varchar2(size)	30		
	Birth_Date	date			
	Temperament_Notes	varchar2(size)	80		
	Chart_Create_Date	date			

✓

Procedure_History	Table				Note on Chart Tables: Patient data is kept longer than laboratory records, so data will have to be copied, that's ok.
Attribute Name	Data Type	Size	Constraint	Notes	
Patient_ProcedureID	number(p,s)		10 PRIMARY KEY		
ProcedureID	number(p,s)		10 FOREIGN KEY		
PetID	number(p,s)		12 FOREIGN KEY		
Procedure_Date	date				
Procedure_Notes	clob				
Procedure_Follow_Up_Date	date				
Procedure_Follow_Up_Outcome	clob				
RxID	int		10 FOREIGN KEY		
VetID	int		5 FOREIGN KEY		

✓

Rx_History	Table				
Attribute Name	Data Type	Size	Constraint	Notes	
RxID	int		10 PRIMARY KEY		
PetID	number(p,s)		12 FOREIGN KEY		
Drug_ID	int		5 FOREIGN KEY		
Drug_Dosage	number(p,s)	9,2			
Drug_Units_Dispensed	number(p,s)	9,2		Will have to use PI/Sal likely to copy this information back into from the actual fill date info	
Date_Filled	date				
Patient_ProcedureID	number(p,s)		10 FOREIGN KEY	Can be null	
Is_Maintenance_Med	char(size)		1	To be used as pseudo-Boolean: Check = Y, N, or NULL only	
Notes	varchar2(size)	1000			

✓

Pathology_History	Table				
Attribute Name	Data Type	Size	Constraint	Notes	
LabHistoryID	int		10 PRIMARY KEY		
LabOrderID	int		10 FOREIGN KEY		
PetID	number(p,s)		12 FOREIGN KEY		
LabID	int		10		
Critical_Disease	char(size)		1 CHECK	Y(es) or N(o) is a flag field	
Date_Completed	date				
Results	varchar2(size)	1000			

✓

Radiology_History	Table				
Attribute Name	Data Type	Size	Constraint	Notes	
PetID	number(p,s)		12 FORMARY KEY		
RadImgID	int		10 PRIMARY KEY		
RadImg_Date_Taken	date				
RadImg_Notes	clob			Notes on radiology image, I would imagine could get quite large.	
RadImg_Files	bfile			Never used this before 🤖, Radiological images will likely have several files	

✓	Imported_Chart_Data	Table			
Attribute Name	Data Type	Size	Constraint	Notes	
PetID	number(p,s)		5 FORMARY KEY		
ImportID	int		5 PRIMARY KEY		
Import_Files	bfile			Never used this before 🤖, Apparently it's custom to keep files from other health care providers separate	

✓	Imported_Chart_Data	Table			
Attribute Name	Data Type	Size	Constraint	Notes	
EncounterID	int		10 PRIMARY KEY		
PetID	int		10 FOREIGN KEY		
Encounter_Weight	number(p,s)		8,2	Adding enough room in the event the business expands to equine pets.	
VetID	int		5 FOREIGN KEY		
Encounter_Notes	clob				

✓	Rx_History_5Yrs&All_Maint_Meds_V	View
	Field	Notes
	PetID	Pet Name is also ok
	Drug_Name	
	Drug_Dosage	
	Date_Prescribed	
	Is_Maintenance_Med	

✓

Procedure_Hist_V	View
Field	Notes
PetID	
ProcedureID	
Procedure_Date	
Procedure_Notes	
Procedure_Follow_Up_Outcome	
VetID	Performing Vet

✓

Lab_Work_V	View
Field	Notes
PetID	
LabID	
Date_Completed	
Results	
Critical_Disease	

Chart_Meta_V (possibly Mtrlzd)	View
Field	Notes
Patient_First_Name	AKA Pet_First_Name
Parent_Last_Name	
Parent_First_Name	
BreedID	
GenderID	
Birth_Date	
Temperament_Notes	
Procedure_Name	
Procedure_Date	
Procedure_Notes	
Procedure_Follow_Up_Date	
Procedure_Follow_Up_Outcome	
Lab_Name	
Lab_Date_Complete	
Radlmg_Notes	
Radlmg_Date_Taken	
Drug_Name	
Drug_Dosage	
Drug_Units_Dispensed	
Date_Prescribed	
Rx_Notes	
Last_Encounter_Notes	
Critical_Disease	

Specialist/Procedure Objects

Specialties	Table			
Attribute Name	Data Type	Size	Constraint	Notes
SpecialtyID	number(p,s)		3 PRIMARY KEY	
VetID	int		5 FOREIGN KEY	
Specialty	varchar2(size)		30	
Specialty_Add_On_Cost	varchar2(size)	7,2		

Procedure	Table			
Attribute Name	Data Type	Size	Constraint	Notes
ProcedureID	number(p,s)		10 PRIMARY KEY	
Procedure_Name	varchar2(size)		30	
Is_Surgery	char(size)		1 CHECK	To be used as pseudo-Boolean: Check = Y, N, or NULL only
Procedure_Cost	number(p,s)	7,2		
SpecialtyID	number(p,s)		3 FOREIGN KEY	Which specialist performs the procedure



Chemical/Pharma

✓

Pathology_Lab_Tests		Table		
Attribute Name	Data Type	Size	Constraint	Notes
LabID	int		10 PRIMARY KEY	
Lab_Name	varchar2(size)			
Lab_Cost	number(p,s)	7,2		
Kits_on_Hand	int	5		

✓

Pathology_Lab_Orders		Table		
Attribute Name	Data Type	Size	Constraint	Notes
LabOrderID	int		10 PRIMARY KEY	
LabID	int		10 FOREIGN KEY	
PetID	int		5 FOREIGN KEY	
VetID	int		5 FOREIGN KEY	
Date_Completed	date			

✓

Pharmacology_Stock		Table		
Attribute Name	Data Type	Size	Constraint	Notes
Drug_ID	int		10 PRIMARY KEY	
Drug_Name	varchar2(size)	60 INDEX		It's likely the chemists and doctors will look up the drug by drug names
Drug_Dosage	number(p,s)	9,2		
Drug_Units_Inv	number(p,s)	9,2		
Drug_Units_Meas	varchar2(size)	20		What is the drug dispensed as? Tablets, mL, bags, pre-filled injections?
Drug_Cost_Per_Unit	number(p,s)	7,2		
Is_Controlled	char(size)	1 CHECK		To be used as pseudo-Boolean: Check = Y, N, or NULL only
Avian_Safe	char(size)	1 CHECK		To be used as pseudo-Boolean: Check = Y, N, or NULL only
Canine_Safe	char(size)	1 CHECK		To be used as pseudo-Boolean: Check = Y, N, or NULL only
Feline_Safe	char(size)	1 CHECK		To be used as pseudo-Boolean: Check = Y, N, or NULL only
Reptile_Safe	char(size)	1 CHECK		To be used as pseudo-Boolean: Check = Y, N, or NULL only
Date_Stocked	date			
Date_Expiration	date		INDEX	Expiration Date of the oldest on hand stock
Order_Level	number(p,s)	7,2		At what level should a report generate and call for a refill
Reorder_Flag	char(size)	1 CHECK		Flag field, will auto-populate, then manually be reset by users

✓

Rx_Order		Table		
Attribute Name	Data Type	Size	Constraint	Notes
RxOrderID			PRIMARY KEY	
RxID	int		10 FOREIGN KEY	
VetID	int		5 FOREIGN KEY	
PetID	int		5	
Date_Submitted	date			
Drug_ID	int		10 FOREIGN KEY	
Drug_Units_Prescribed	number(p,s)	9,2		
Drug_Units_Dispensed	number(p,s)	9,2		Optional attribute may be purged from final release
Procedure_ID	int			Can be NULL, is only to reference if a drug is given during an operation/procedure
Date_Filled	date			



✓	<b>Rx_Refills</b>	<b>Table</b>			
	<b>Attribute Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Notes</b>
	RxOrderID	int		10 PRIMARY KEY	
	RefillID	int		5 FOREIGN KEY	This table though not a join table might be a good candidate for a composite primary key simply because of tracking. For example: same Rx#, but each refill date creates a new instance of the record;
	RxID	int		10 FOREIGN KEY	
	Num_Refills_Left	int			if no refills then this field will still be populated with a zero and the date filled would be that day
	Date_Filled	date			

✓	<b>Local_Blood_Bank</b>	<b>Table</b>			
	<b>Attribute Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Notes</b>
	BloodBagID	int		5 PRIMARY KEY	
	Type_Blood	char(size)		5	
	Species_Id	int		FOREIGN KEY	

✓	<b>Disposable_Products</b>	<b>Table</b>			
	<b>Attribute Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Notes</b>
	Product_ID	int		5 PRIMARY KEY	
	Product_Description	varchar2(size)		40	
	Product_Size	varchar2(size)		10	
	Product_On_Hand	int		5	

✓	<b>Blood_Report_V</b>	<b>View</b>			
	<b>Fields</b>	<b>Notes</b>			
	Bags_On_Hand				
	Count_by_Avian				
	Count_by_Canine				
	Count_by_Feline				
	Count_by_Reptile				

✓	<b>Pharmacology_On_Hand_V</b>	<b>View</b>			
	<b>Fields</b>	<b>Notes</b>			
	Drug_Name				
	Drug_Dosage				
	Drug_Units_Inv				
	Is_Controlled				
	Date_Stocked				
	Date_Expiration				



Invoicing Objects



Invoice		Table			
Attribute Name	Data Type	Size	Constraint	Notes	
InvoiceID	int		12 PRIMARY KEY	Start at 1000	
PetID	int		12 FOREIGN KEY		
LabOrderID	number(p,s)		7,2 FOREIGN KEY		
VetID	int		5 FOREIGN KEY		
Date_Invoice_Creation	date		INDEX		
Lab_Name	varchar2(size)				
Total_Add_On_Costs	number(p,s)	12,2		Total of Lab_Cost + Specialty_Add_On_Cost	
Total_Invoice_Cost	number(p,s)	12,2		Sum of Total_Procedure_Rx_Costs + Total_Add_On_Costs	
Specialty	varchar2(size)	30			
Specialty_Add_On_Cost	varchar2(size)	7,2			
Late_Charges	number(p,s)	7,2		5% on 30 days +	
Total_With_Late_Charges	number(p,s)	12,2			
Total_Invoice_Cost	number(p,s)	12,2			
Date_Paid	date				
Is_Estimate	char(size)		1 CHECK	Y or N; Subtype discriminator	
SpecialtyID	int		3 FOREIGN KEY		



Estimate		Table			
Attribute Name	Data Type	Size	Constraint	Notes	
InvoiceID	int		12 PRIMARY KEY	Everything in this table will get renamed from Invoice to Estimate upon printing for customers, let programming know Except...for of course EstimateID, and InvoiceID	
EstimateID					
PetID	int		12 FOREIGN KEY		
LabOrderID	number(p,s)		7,2 FOREIGN KEY		
VetID	int		5 FOREIGN KEY		
Date_Invoice_Creation	date		INDEX		
Lab_Name	varchar2(size)				
Total_Add_On_Costs	number(p,s)	12,2		Total of Lab_Cost + Specialty_Add_On_Cost	
Total_Invoice_Cost	number(p,s)	12,2		Sum of Total_Procedure_Rx_Costs + Total_Add_On_Costs	
Specialty	varchar2(size)	30			
Specialty_Add_On_Cost	varchar2(size)	7,2			
Total_Invoice_Cost	number(p,s)	12,2			
SpecialtyID	int		3 FOREIGN KEY		
Estimate_Approved	char(size)		1 CHECK	Y or N; Subtype discriminator	



Invoice_Procedure_Builder		Table			
Attribute Name	Data Type	Size	Constraint	Notes	
InvoiceProcID	int		10 PRIMARY KEY		
ProcedureID	int		10 FOREIGN KEY		
Procedure_Name	varchar2(size)	30			
Is_Surgery	char(size)	1		This field adds an additional \$250 for use of the operating theater it is a one time fee per invoice if valid.	
Procedure_Cost	number(p,s)	7,2			
Procedure_Date	date			This table will be used to build the Estimate Table because an animal can have one or more procedures during a surgery. No need for petID, as this is unique, can be joined in later.	



Invoice_Rx_Builder		Table		
Attribute Name	Data Type	Size	Constraint	Notes
Invoice_RxID	int		12 PRIMARY KEY	
PetID	int		FOREIGN KEY	Couple of options with these tables, can either use PL/SQL or connector tables.
Drug_ID	int		10 FOREIGN KEY	
Drug_Cost_Per_Unit	number(p,s)	7,2		
Drug_Dosage	number(p,s)	9,2		
Drug_Units_Prescribed	number(p,s)	9,2		From Rx_Order table
Rx_Cost	number(p,s)	7,2		(Drug_Cost * Drug_Units_Prescribed)
RxID				



Procedure_Cost_Aggregator		Table		
Attribute Name	Data Type	Size	Constraint	Notes
InvoiceID	int		12 FORMARY KEY	Compound Primary Key
InvoiceProclD	int		12 PRIMARY KEY	Compound Primary Key
Sum_Proc_Cost	number(p,s)	9,2		



Rx_Cost_Aggregator		Table		
Attribute Name	Data Type	Size	Constraint	Notes
InvoiceID	int		12 FORMARY KEY	Compound Primary Key
Invoice_RxID	int		12 PRIMARY KEY	Compound Primary Key
Sum_Rx_Cost	number(p,s)	9,2		



Estimate_V	View
Field	Notes
EstimateID	
Pet_Name	
Parent_Last	
Parent_First	
Lab_Name	
Lab_Cost	
Vet_Last	
Sum_Proc_Cost	
Sum_Rx_Cost	
Specialty_Add_On_Cost	
Total_Add_On_Cost	
Total_Estimate_Cost	
Date_Estimate_Creation	
Date_Expires	

Invoice_V	View
Field	Notes
InvoiceID	
Pet_Name	
Parent_Last	
Parent_First	
Lab_Name	
Lab_Cost	
Vet_Last	
Sum_Proc_Cost	
Sum_Rx_Cost	
Specialty_Add_On_Cost	
Total_Add_On_Cost	
Total_Invoice_Cost	
Date_Invoice_Creation	
Date_Due	
Late_Charges	
Total_With_Late_Charges	

Staffing



Veterinarian		Table		
Attribute Name	Data Type	Size	Constraint	Notes
VetID	int		5 FOREIGN KEY	Subtype of Staff, will be a 1:1 relationship with a primary/foreign key.
Rx_Auth_Num	char(size)		11	Typically starts with a letter, so char is required



Staff		Table		
Attribute Name	Data Type	Size	Constraint	Notes
StaffID	int		10 PRIMARY KEY	
Staff_First_Name	varchar2(size)	40		This whole situation may need to be cleaned up possibly combining the Specialist Table and the Vet Table
Staff_Last_Name	varchar2(size)	40	INDEX	
Employment_Date	date			
Termination_Date	date			
Is_Rehireable	char(size)		1 CHECK	To be used as pseudo-Boolean: Check = Y, N, or NULL only
Is_Vet	char(size)		1 CHECK	To be used as pseudo-Boolean: Check = Y, N, or NULL only
Database_Role	varchar2(size)	40		Information irrelevant to anyone but the DBA