#### I. Introduction

A veterinarian office wants to digitize their records to keep track of their customers (owners), and pets including their medical history and any prescriptions they may need. Each customer may have many pets that they take into the animal clinic. The customers are emailed and also mailed reminders about when their pet is scheduled for a visit. The pets are scheduled for appointments with veterinarians including the date, start time, and length of each visit. Each pet has a medical history record that the vet takes notes in each visit and will prescribe prescriptions if necessary including the Rx, cost, how many refills the owners may request and when the refills will expire. The pets are identified by a unique pet ID, also their name, species, weight, fur colour, and age. If the vet needs to schedule to see a pet, they will consult the pet's owner. Note that the intended audience for this application is the clerical staff that interact with customers in the office and not the veterinarians. Even though we have access to medical notes and medication records, it is assumed that the medical staff have their own system for creating and managing this and anything else related to treating the animals.

#### **II. Application Requirements**

- 1. Look up owner's account
  - a. Show owners contact info
  - b. Show pets owned by owner
  - c. Show description of each pet and ID

Description: If a staff member or customer needs to see information about their account, they can view all details of the owner's contact information and all associated pets, along with the pets information by searching their owner's account number or the pet ID associated with one of the pets.

- 2. Add a new customer
  - a. Get customer's information
  - b. Enter in profile for each pet

Description: Adds a new customer by acquiring their contact information, and detailed descriptions of each of their pets.

- 3. Schedule an appointment
  - a. Enter in appointment details for each pet identified by their account ID

Description: If a customer requests a visit, staff can schedule an appointment for the pet by identifying their ID, date, time, and length of the visit.

- 4. View a pet's medical history
  - a. Show medical record history
  - b. Show medication history

Description: If an owner wants to inquire about their pet's medical history, staff can view information detailing all medical visit notes and previous prescriptions.

- 5. Show list of customers that clerk will send reminders to
  - a. Search for customers that haven't had an appointment in over 1 year
  - b. Display their contact information so that the clerk can email or mail them a reminder

c. Generate a report

Description: Like other vet offices and dental offices, clerical staff will remind clients when it is time for an annual check up. To achieve this, the staff can generate a report detailing all customers that have not visited the vet clinic in over 1 year.

- 6. Cancel an appointment
  - a. Look up appointment history for a pet
  - b. Remove desired appointment

Description: If an owner needs to cancel an appointment for their pet, staff can view all appointments by searching the pet's ID, and select the desired appointment to cancel.

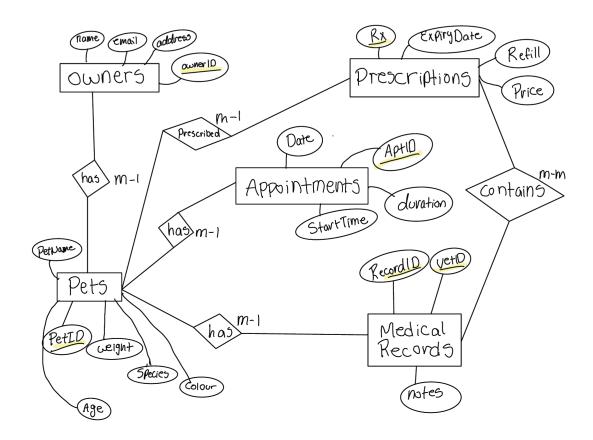
#### III. Database Design

#### **Data Descriptions**

- 1. Owners table holds all information associated with each pet owner/ customer.
  - a. OwnerID (NUMBER 6): A unique identifier that is given to each customer.
  - b. Name (VARCHAR 2(30)): Holds the customer's first and last name.
  - c. Email (VARCHAR2(50)): Holds the customer's email address.
  - d. Address (VARCHAR2(100)): Holds the customer's full mailing address.
- 2. Pets The table contains information about the pets at the clinic.
  - a. PetID (NUMBER 6): A unique identifier addressed to each pet.
  - b. PetName (VARCHAR2(30)): Contains pet's name.
  - c. Age (VARCHAR2(10)): Contains pet's age in years, or months if less than 1 year.
  - d. Species (VARCHAR2(30)): Contains a brief description of what type of species the pet is.
  - e. Colour (VARCHAR2(20)): Contains a brief description of the pet's colourings.
  - f. Weight (NUMBER(4)): Contains their weight in pounds.
  - g. OwnerID (NUMBER(6) REFERENCES OWNERS): References owner's account ID, to see which pet belongs to whom.
- 3. Appointments This table contains all scheduled visits that the owner takes their pet into the clinic.
  - a. AptID (NUMBER(10)): A unique identifier given to each appointment.
  - b. PetID (NUMBER(6) REFERENCES PETS): Contains the pet's identifier that the appointment is about.
  - c. AptDate (DATE): The date the pet is scheduled for a visit in mm/dd/yyyy format.
  - d. StartTime (TIMESTAMP(6)): The time of the day the vet is scheduled, in 24 hour format.
  - e. Duration (Number(3)): The estimated length of the scheduled visit, in minutes.
- 4. MedicalRecords This table contains medical notes that describe the purpose of each visit from a pet's veterinarian. This includes previous surgeries or vaccinations. Since appointments may just be consultations for an owner, this is not related to the appointment table as each appointment may not require medical notes.
  - a. RecordID (NUMBER(10)): A unique identifier for each medical record.
  - b. VetID (CHAR(5)): Contains the Veterinarian's identifier that performed the surgery or vaccination.
  - c. PetID (NUMBER(6) REFERENCES PETS): Contains the pet's identifier that the record is about.

- d. Notes (VARCHAR2(200)): Contains medical descriptions of the procedure performed.
- 5. Prescriptions This table contains all prescriptions that may be prescribed to a pet by the veterinarian.
  - a. Rx (NUMBER(8)): A unique medication identifier for the prescribed medicine.
  - b. Refill (NUMBER(2)): The number of times the owner may refill this prescription.
  - c. ExpiryDate (DATE): The date that the medication expires.
  - d. Price (NUMBER(8,2)): The total cost of the medication in Canadian dollars.
- 6. Contains This table is a many-to-many relationship table that keeps track of which veterinarian prescribed the medication, and the purpose of the medicine by linking the medical records and prescription tables. This is useful for generating medical reports.
  - a. Rx (NUMBER(8) REFERENCES PRESCRIPTIONS): A unique medication identifier for the prescribed medicine.
  - b. RecordID (NUMBER(10) REFERENCES MEDICALRECORDS): A unique identifier for each medical record.
  - c. VetID (CHAR(5) REFERENCES MEDICALRECORDS): Contains the Veterinarian's identifier that performed the surgery or vaccination.

#### **Entity Relationship Diagram**



# SCHEMA

Owners (Owner 10, Name, Email, Address);

Pets (Pet1D, Petname, Age, Species, Colour, Weight, Owner 1D);

Appointments (Apt ID, Pet ID, Date, StartTime, Duration);

Medical Records (<u>Record ID</u>, <u>VetID</u>, <u>PetID</u>, <u>Notes</u>);

Contains (Rx. Record ID, VetD);

Prescriptions (Rx, Refill, Expiry Date, Price);

Underlined attributes represent primary keys and foreign keys are indicated by the highlighted portions.

### IV. Sample Data

### <u>Owners</u>

		<u>o whers</u>	
OwnerID	Name	Email	Address
198775	Hollis Stillwell	hstillwell0@theatlantic.com	8893 Bonner Lane
337407	Lowell Oxtaby	loxtaby1@cyberchimps.com	6 Dawn Terrace
154436	Darcee Danne	ddanne2@dot.gov	1 Blackbird Junction
165439	Elsie Helstrip	ehelstrip3@a8.net	2 Gerald Alley
142561	Thain Creese	tcreese4@drupal.org	530 Anthes Road
939611	Adolphe Kacheller	akacheller5@sitemeter.com	96 Lotheville Parkway
648608	Ariadne Seiller	aseiller6@google.fr	9858 Bultman Alley
393378	Karel Hamshere	khamshere7@imageshack.us	77 Porter Trail
576099	Shanna Slimon	sslimon8@examiner.com	40 Steensland Point
444954	Athena Cuseick	acuseick9@psu.edu	10 Lerdahl Trail
342513	Walt La Rosa	wlaa@blogger.com	1275 Melrose Alley
259609	Catlin Tzarkov	ctzarkovb@surveymonkey.com	6 Lyons Center
903786	Munroe Coleson	mcolesonc@sbwire.com	70117 Golf Course Court
915575	Cherie Melson	cmelsond@ning.com	12 Sage Plaza
	Hamlen Lawton	hlawtone@themeforest.net	2482 Haas Alley
	Fredra Tollfree	ftollfreef@imgur.com	0 Algoma Circle
	Agna Kneeland	akneelandg@google.es	8 Thompson Place
	Mallorie Conring	mconringh@feedburner.com	78 Vermont Parkway
	Theda Le Bosse	tlei@cornell.edu	5687 Bashford Place
	Harbert Blindt	hblindtj@fema.gov	2 Washington Point
	Marin Bottlestone	mbottlestonek@cbsnews.com	6573 Porter Road
	Siegfried Whittlesey	swhittleseyl@blogger.com	27796 Lakeland Hill
	Mychal Mouan	mmouanm@sciencedaily.com	86 Bartillon Trail
	Alec Jackett	ajackettn@fastcompany.com	48413 Di Loreto Avenue
	Rosetta Thoma	rthomao@europa.eu	02 Bashford Lane
	Libbie Raff	Iraffp@hugedomains.com	5 Buhler Road
	Lucilia Merrikin	Imerriking@shareasale.com	75 Coolidge Hill
	Boy Baudassi	bbaudassir@google.com	24 Atwood Pass
	Tobey Jewkes	tjewkess@mayoclinic.com	26 Bellgrove Trail
	Retha Syddie	rsyddiet@sfgate.com	69267 Rigney Place
	Warren Kalkofer	wkalkoferu@google.es	715 Warner Hill
	Anabel Vanyushin	avanyushinv@disqus.com	596 Scott Road
	Roland Prin	rprinw@blogspot.com	3 Truax Circle
	Sile Dafydd	sdafyddx@nsw.gov.au	388 Ridgeview Pass
	Ivar Triebner	itriebnery@accuweather.com	37938 Vermont Court
	Dane Maypother	dmaypotherz@sogou.com	3016 Scofield Place
	Viv Plan	vplan10@paginegialle.it	9735 Hollow Ridge Alley
	Retha Goodge	rgoodge11@canalblog.com	916 Vernon Hill
	Conant Vanni	cvanni12@apache.org	20058 7th Lane
	Lacey Mansion	Imansion13@plala.or.jp	690 Steensland Junction
	Rogerio Cheley	rcheley14@skyrock.com	3 Stone Corner Point
	Berny Biscomb	bbiscomb15@meetup.com	3518 Nelson Lane
	Asher Dunton	adunton16@army.mil	85 Dexter Point
	Stillmann Woehler	swoehler17@nyu.edu	62829 Village Green Court
	Erich Verbrugghen	everbrugghen18@sciencedirect.com	2680 Armistice Way
	Valentino Rowly	vrowly19@imageshack.us	6 Makerida Tarraca
	Blair Lapre	blapre1a@a8.net	6 Mcbride Terrace
	Natty Drinkale	ndrinkale1b@nydailynews.com	65 Sundown Pass
3/3802	Dulcinea Bryant	dbryant1c@163.com	22282 Hanson Point
	Andromache Tustin	atustin1d@merriam-webster.com	2 Meadow Ridge Terrace

# <u>Pets</u>

PetID	PetName	Age	Species	Colour	Weight	OwnerID
385764	Zulu	7	dog	Brown	4	1987
541265	Golf	4	cat	Tan	12	33740
180226	Alfa	13	alpaca	White	82	1544
851620	Sierra	11	pig	Pink	86	1654
603978	Lima		mouse	Grey	84	1425
830373			hamster	Calico	46	9396
704555			ferret	Grey	34	6486
840228			newt	Green	86	3933
886910	·		gerbil	Brown	54	5760
838185			gerbil	Brown	10	4449
800088			cat	Black	94	3425
377950			snake	Yellow	58	2596
766917	_		mouse	Grey	64	9037
276675			toad	Green	99	9155
167780			sheep	White	8	6434
433622			horse	Burgundy	23	6111
865331			horse	Black	1	5555
				White	31	
446976			cat			1745
789434			rabbit	Grey	87	1186
133414	,		hedgehog	Grey	2	7389
	November		cat	Calico	7	1715
225400			mouse	White	25	3676
223017			cat	Brown	51	1371
372652			hedgehog	Grey	92	4238
598160			snake	Yellow	95	4697
655148	Victor		dog	Brown	12	1303
483139	Sierra		ferret	Grey	86	6373
698201	Delta	5	rabbit	Black	76	8902
814752	Echo	1	frog	Green	75	7212
283466	November	13	ferret	Tan	71	5842
158984	Yankee	8	cat	Tan	1	9433
705378	Golf	2	ferret	Tan	2	9917
233919	Victor	4	cat	White	9	9500
100153	Delta	8	cat	Striped	8	1651
746510	Victor	4	dog	Black	95	2856
421094	Zulu	12	pig	Pink	33	8011
448359	India	9	alpaca	Brown	52	2042
619774	Delta	15	mouse	Grey	47	4839
228770	Todd	4	toad	Green	27	6347
341434	Papa	15	tortoise	Green	16	6524
167837	Romeo	2	goat	Grey	25	1883
634148	Golf	12	cat	White	39	5766
446083	Oscar	2	cat	Brown	39	5630
812451	Zulu	10	cat	Striped	46	3081
518677	Romeo		cat	Calico	52	6537
640157			cat	Brown	9	5196
	November		cat	Grey	78	3086
	Chester		cat	Grey	86	2849
710139			cat	Black	52	3738
193520	·		cat	Black/White	6	5084
475846			cat	Black	44	6524
742314			cat	Grey	50	1883
522511			cat	Orange	29	5766
					29	
482053			dog	Brown		5630
340099			dog	White	16	3081
589603			cat .	Black	50	6537
115141			cat	Brown	74	5196
	Rodney		cat	White	6	3086
	Matilda	0	dog	Black	14	2849

# **Appointments**

	P P	<u>mumemus</u>		
ptID	PetID	AptDate	StartTime	Duration
294584046	385764	07/01/2017	15:02	120
224406185	541265	05/20/2017	14:25	86
673051117	180226	10/03/2017	9:35	100
484852578	851620	07/14/2019	8:26	46
662995720	603978	09/05/2017	12:56	106
285797493	830373	11/11/2019	15:32	117
852033459		03/25/2019	13:30	47
660623190		10/12/2017	11:05	100
027237320		08/08/2019	16:56	93
540936414		07/25/2018	9:38	111
138659782		12/31/2019	8:14	60
711686905		06/18/2018	11:16	39
680852600		02/07/2019	15:20	61
151436323	276675	11/11/2018	15:03	73
781034593	167780	04/14/2019	8:49	30
108834582	433622	09/16/2018	12:57	77
812723050	865331	10/07/2017	9:29	64
708071916	446976	10/05/2018	14:56	58
091070025	789434	07/21/2017	8:14	108
062483482	133414	06/08/2018	12:02	86
428217712	528012	07/01/2019	11:13	18
799693500		04/04/2019	9:03	69
734068241		03/03/2018	9:02	90
676256940		09/17/2017	12:25	88
958916833		07/20/2018	15:44	42
966788262		08/03/2017	15:09	91
154388643	483139	06/17/2017	16:30	110
623730224	698201	02/21/2017	16:23	17
615302354	814752	03/31/2017	10:26	23
762360374	283466	07/08/2019	11:59	60
588913460	158984	10/04/2019	16:41	52
068142407	705378	06/03/2017	13:22	15
514037870	233919	01/21/2020	9:29	119
178017486	100153	07/06/2018	8:41	71
646626285	746510	10/09/2018	16:23	81
540999955		12/09/2017	8:23	115
262420203		03/20/2017	11:56	
283774806		01/07/2019	15:25	83
		09/29/2017		
144170982			9:18	
359814252		03/22/2019	11:57	
377173290		03/21/2019	9:11	25
720515631		05/14/2019	15:56	
635030226	446083	10/09/2018	13:10	67
158377859	812451	04/11/2018	10:12	51
590017345	518677	06/01/2017	10:48	34
482805183	640157	03/14/2019	16:17	26
319822895	670837	07/21/2017	12:24	70
349818867	616752	05/13/2017	8:14	59
615254419	710139	06/04/2019	9:56	30
206258718		07/27/2019	8:09	43
206258719		07/28/2019	9:50	15
206258720		07/27/2019	10:00	20
206258720		07/27/2019	10:00	25
206258722		07/26/2019	10:20	30
206258723		07/25/2019	10:30	15
206258724		07/27/2021	10:40	24
206258725	115141	07/24/2019	10:50	25
206258726	187667	07/27/2020	11:00	26
206258727	830806	07/26/2019	11:10	27
206258728	351786	07/25/2019	11:20	28

### MedicalRecords

<u>MedicalRecords</u>			
RecordID	VetID	PetID	Notes
2666987175	7GD9E	385764	Rad node dissection NOS
2666987176	3QX7J	541265	Radius/ulna inj op NOS
2666987177	8PG5H	180226	Pull-thru res rectum NOS
2666987178	8PS8Z	851620	Tube & uterus x-ray NEC
2666987179	3ED0B	603978	Cran nerv root decom NEC
2666987180	2JE1W	830373	Rev/repl epiretinal pros
2666987181	8ZY3F	704555	DIEP flap, free
2666987182	7GD9E	840228	Nueter
2666987183	3QX7J	886910	Other perfusion
2666987184	8PG5H	838185	Cystogram NEC
2666987185	8PS8Z	800088	Bilat lung transplant
2666987186	3ED0B	377950	Vital capacity determin
2666987187	2JE1W	766917	Eyelid dx procedure NEC
2666987188	8ZY3F	276675	Rectal perirect op NEC
2666987189	7GD9E	167780	Spay
2666987190	3QX7J	433622	Uterine support op NEC
2666987191	8PG5H		Suture vas & epidid lac
2666987192			Remov biliary/liver tube
2666987193			Repl stent in bile duct
2666987194			BBBD via infusion
2666987195			Radioactive elem implant
2666987196			Insert valve in vas def
2666987197			Refus drs/drslmb ant/ant
2666987198			Other myectomy
2666987199			Pharyngeal dx proc NEC
2666987200			Scleral buckle w implant
2666987201			Remov pyelos/nephros tub
2666987202			Dysphasia training
2666987203			Chest wall sinogram
2666987204			Breast split-thick graft
2666987205			Pacemaker rate check
2666987206			Excision of lip les NEC
2666987207			Open thyroid gland bx
2666987208			Insert tissue expander
2666987209			Insert 1 vascular stent
2666987210			Colostomy NOS
2666987211			Oth chest cage rep/plast
2666987212			Replace gastrostomy tube
2666987213			Total abd hyst NEC/NOS
			, .
2666987214			Parastern hernia repair
2666987215			Abdperneal res rectm NOS
2666987216			Fallopian tube op NEC
2666987217			Operation on orbit NEC
2666987218			Treadmill stress test
2666987219			Reduction torsion testes
2666987220			Rigid proctosigmoidoscpy
2666987221			Laparoscopic cecectomy
2666987222			Suture ureteral lacerat
2666987223			Seg osteoplasty maxilla
2666987224			Excise int mammary node
2666987225			Check up
2666987226			Vaccinations, Rabies
2666987227			Check up
2666987228			Vaccinations, Rabies
2666987229			Check up
2666987230			Vaccinations, Rabies
2666987231			Check up
2666987232	3QX7J		Vaccinations, Rabies
2666987233	8PG5H	830806	Check up
2666987234	8PS8Z	351786	Vaccinations, Rabies

### **Prescriptions**

<u>Prescriptions</u>				
Rx	Refill	ExpiryDate	Price	
16585521	1	11/02/2017	6.94	
38029432	4	03/20/2019	44.78	
60786672	2	08/03/2018	31.52	
88331072	9	09/06/2018	17.05	
28613069	10	11/29/2017	20.83	
25376459	2	09/27/2019	20.84	
68057512	5	07/20/2019	50.73	
73356352	4	08/20/2019	69.54	
79228351	9	07/12/2018	58.70	
64123222	3	01/18/2020	67.56	
27037392	2	11/21/2017	47.69	
46419623	5	10/31/2019	11.40	
28086200	5	11/30/2018	69.12	
35430109	9	01/02/2017	28.28	
25999284	5	03/14/2017	41.97	
24928320	9	04/01/2017	5.42	
26841422	8	09/07/2018	58.42	
54626844	0	07/12/2018	56.98	
41375502	2	09/14/2017	47.65	
84834454	4	12/17/2017	37.25	
11132752	1	01/26/2018	38.84	
29205957	10	11/19/2019	62.74	
22306925	9	07/19/2019	14.59	
22987887	8	08/26/2019	40.17	
83351979	8	01/18/2018	65.68	
16690574	10	05/23/2018	59.78	
64600599	3	02/09/2018	39.09	
33501867	10	05/30/2018	40.02	
21159773	2	07/02/2017	69.04	
76604903	10	09/19/2017	5.93	
66885060	2	08/26/2019	6.41	
17476666	4	02/01/2019	51.78	
71812828	8	09/27/2017	54.83	
60626779	8	01/03/2020	35.70	
55095564	4	12/17/2018	66.02	
86078034	5	12/13/2017	55.01	
19878973	7	12/13/2019	40.94	
15065441	7	01/06/2019	11.74	
78477969	6	01/14/2020	62.60	
68020883	9	01/25/2019	18.94	
29103049	0	02/06/2019	25.07	
60339314 46603027	2	01/09/2017 02/08/2020	15.13	
78520841	6	12/03/2017	31.76 43.63	
68853842	4	01/18/2018	57.34	
49219851	4	08/31/2019	10.61	
87374663	7	09/13/2019	39.82	
10859019	0	09/19/2019	19.19	
65838506	8	01/07/2019	5.94	
56611093	9	08/26/2017	5.58	
65175658	6	12/27/2017	46.71	
50129128	8	12/21/2018	31.61	
53386436	1	03/23/2017	29.29	
86629476	9	02/08/2019	61.80	
21500535	5	07/12/2019	10.76	
21064814	10	04/04/2019	14.15	
38301064	3	01/02/2019	60.81	
16630747	4	08/06/2017	52.24	
27237250	10	03/24/2017	55.83	
72994679	3	02/15/2017	32.57	
, 23340, 3	, ,	,,,	32.37	

## **Contains**

Con	<u>itains</u>	
Rx	RecordID	VetID
16585521	2666987175	7GD9E
38029432	2666987176	3QX7J
60786672	2666987177	8PG5H
88331072	2666987178	8PS8Z
28613069	2666987179	3ED0B
25376459	2666987180	2JE1W
68057512	2666987181	8ZY3F
73356352	2666987182	7GD9E
79228351	2666987183	3QX7J
64123222	2666987184	8PG5H
27037392	2666987185	8PS8Z
46419623	2666987186	3ED0B
28086200	2666987187	2JE1W
35430109	2666987188	8ZY3F
25999284	2666987189	7GD9E
24928320	2666987190	3QX7J
26841422	2666987191	8PG5H
54626844	2666987192	8PS8Z
41375502	2666987193	3ED0B
84834454	2666987194	2JE1W
11132752	2666987195	8ZY3F
29205957	2666987196	7GD9E
22306925	2666987197	3QX7J
22987887	2666987198	8PG5H
83351979	2666987199	8PS8Z
16690574	2666987200	3ED0B
64600599	2666987201	2JE1W
33501867	2666987202	8ZY3F
21159773	2666987203	7GD9E
76604903	2666987204	3QX7J
66885060	2666987205	8PG5H
17476666	2666987206	8PS8Z
71812828	2666987207	3ED0B
60626779	2666987208	2JE1W
55095564	2666987209	8ZY3F
86078034	2666987210	7GD9E
19878973	2666987211	3QX7J
15065441	2666987212	8PG5H
78477969	2666987213	8PS8Z
68020883	2666987214	3ED0B
29103049	2666987215	2JE1W
60339314	2666987216	8ZY3F
46603027	2666987217	7GD9E
78520841	2666987218	3QX7J
68853842	2666987219	8PG5H
49219851	2666987220	8PS8Z
87374663	2666987221	3ED0B
10859019	2666987222	2JE1W
65838506	2666987223	8ZY3F
56611093	2666987224	7GD9E
65175658	2666987225	3QX7J
50129128	2666987226	8PG5H
53386436	2666987227	8PS8Z
86629476	2666987228	
21500535	2666987229	3ED0B
21500535	2666987230	2JE1W
		8ZY3F
38301064	2666987231	7GD9E
16630747	2666987232	3QX7J
27237250	2666987233	8PG5H
72994679	2666987234	8PS8Z

#### V. Testing

#### Initial Menu Output

elliottt@otter:~/csci370/project\$./vet

Enter user name: elliottt

Enter password:

\*\*\* Welcome to Welcome to the VI Vet Clinic System \*\*\*

Enter 'A' to view accounts

or 'N' to add a new customer

or 'S' to schedule an appointment

or 'C' to cancel an appointment

or 'H' to generate a medical history report

or 'R' to search for customer reminder contacts

or 'E' to exit this program

-----

Please enter your command:

#### View Accounts (A)

#### **Correct Input**

Please enter your command: A

Please enter the owner ID to show all pets or the pet ID: 308657

\* Account ID: 308657\* Full Name: Blair Lapre

\* Email Address: blapre1a@a8.net \* Address: 6 Mcbride Terrace

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*Blair Lapre's Pets \*\*

#### PET 1:

\* Pet ID: 670837

\* Pet's Name: November

\* Pet's Age: 10\* Species/Type: cat\* Colour: Grey\* Weight(lbs): 78

#### PET 2:

\* Pet ID: 187667

\* Pet's Name: Rodney

\* Pet's Age: 7

\* Species/Type: cat

\* Colour: White

\* Weight(lbs): 6

#### **Incorrect Input**

Please enter your command: A
Please enter the owner ID to show all pets or the pet ID: asdas
Value must be between 6 and 6 characters.
Please try again
12345
Value must be between 6 and 6 characters.
Please try again
123456
Nothing found under this number.

-----

#### Create a New Account (N)

#### **Correct Input**

Email: tiffelliott97@gmail.com

Street Address: 3020 Dolphin Drive

Owner account created.

\* PET PROFILE

\* How many pets do they have? 2

**ENTER PET #1** 

\* Pet name: Rick

\* Age: 1

\* Species/Types: Dog

\* Color Description: Grey

\* Weight (lbs): 12 Pet account created.

**ENTER PET #2** 

\* Pet name: Poppy

\* Age: 4

\* Species/Types: Cat

\* Color Description: Calico

\* Weight (lbs): 5 Pet account created.

.....

#### **Incorrect Input**

Please enter your command: N

\*\*\*\*\*\* OWNER PROFILE - Please enter primary owner \*\*\*\*\*\*\*

Owner Name (First Last): 123 Must be a non number. Try again.

Owner Name (First Last): Bob Mendra

Email:

Value must be between 5 and 150 characters.

Please try again

Value must be between 5 and 150 characters. Please try again

b12394@hotmail.ca

Street Address:

Value must be between 5 and 200 characters.

Please try again

Value must be between 5 and 200 characters.

Please try again 123 Forest Road

Owner account created.

\* PET PROFILE

\* How many pets do they have? a

Please enter an integer in the range 1 - 20: 0

Please enter an integer in the range 1 - 20: 1

**ENTER PET #1** 

\* Pet name: 123

Must be a non number. Try again.

\* Pet name:

Value must be between 1 and 100 characters.

Please try again

Sianara

\* Age: asd

Must be a number. Try again.

\* Age: 3

\* Species/Types: 123

Must be a non number. Try again.

\* Species/Types: Lizard

\* Color Description: Green

\* Weight (lbs): 1

Pet account created.

#### Changes to database:

#### Owners:

```
SQL> select * from owners where name = 'Tiff Elliott';

OWNERID NAME

EMAIL

ADDRESS

991731 Tiff Elliott
tiffelliott97@gmail.com
3020 Dolphin Drive
```

```
ISQL> select * from owners where name = 'Bob Mendra';

OWNERID NAME

EMAIL

ADDRESS

991732 Bob Mendra
b12394@hot mail.ca
123 Forest Road
```

#### Pets:

```
ISQL> select * from pets where ownerid = '991732'

PETID PETNAME AGE

SPECIES COLOUR WEIGHT OWNERID

886917 Sianara 3
Lizard Green 1 991732
```

#### **Correct Input**

Please enter your command: S SCHEDULE A NEW APPOINTMENT

Enter the Pet's ID:

385764 PET 1:

\* Pet ID: 385764 \* Pet's Name: Zulu

\* Pet's Age: 7

\* Species/Type: dog \* Colour: Brown

\* Weight(lbs): 4

Enter the month (mm): 12 Enter the day (dd): 4 Enter the year (yyyy): 2020

12/4/2020

Enter the start time hour (h): 10 Enter the start time minutes (m): 30

10:30

Enter the length of appointment in minutes.

25

Appoint at 12/4/2020 successfully created!

\_\_\_\_\_

#### **Incorrect Input**

Please enter your command: S SCHEDULE A NEW APPOINTMENT

Enter the Pet's ID:

ab

Value must be between 6 and 6 characters.

Please try again

abybyby

Value must be between 6 and 6 characters.

Please try again

123456

Pet ID not found, please try again, or press 0 to exit

Enter the Pet's ID:

385764

PET 1:

\* Pet ID: 385764

\* Pet's Name: Zulu

\* Pet's Age: 7

\* Species/Type: dog

\* Colour: Brown

\* Weight(lbs): 4

Enter the month (mm): 3

Enter the day (dd): 3

Enter the year (yyyy): 5555

Please enter an integer in the range 2020 - 2030: 2030

3/3/2030

Enter the start time hour (h): e

Please enter an integer in the range 0 - 24: 1

Enter the start time minutes (m): 44

Please enter an integer in the range 1 - 31: 23

1:23

Enter the length of appointment in minutes.

abc

Please enter an integer in the range 1 - 1000: 125

Appointment at 3/3/2030 successfully created!

#### Changes to database:

```
APTID PETID APTDATE

STARTTI ME

DURATI ON

9799693507 385764 03-MAR-30
01-APR-20 01.23.00.000000 AM
125
```

```
ISQL> select * from appointments where aptid = '9799693508';

APTID PETID APTDATE

STARTTIME

DURATION

9799693508 385764 04-DEC-20
01-APR-20 10.30.00.000000 AM
25
```

#### Cancel an appointment

Please enter your command: C

Please enter the Pet's ID that you cancel or 000000 to exit this menu: 385764

Appointment found for this pet:

Appointment ID: 9799693508 Appointment Date: 04-DEC-20

Appointment Start Time: 01-APR-20 10.30.00 AM -07:00

Appointment Duration: 25

#### Appointment found for this pet:

Appointment ID: 9799693504 Appointment Date: 15-MAR-20

Appointment Start Time: 01-APR-20 12.30.00 PM -07:00

Appointment Duration: 25

#### Appointment found for this pet:

Appointment ID: 9799693505 Appointment Date: 03-DEC-20

Appointment Start Time: 01-APR-20 12.30.00 PM -07:00

Appointment Duration: 25

#### Appointment found for this pet:

Appointment ID: 9799693506 Appointment Date: 03-SEP-20

Appointment Start Time: 01-APR-20 12.12.00 PM -07:00

Appointment Duration: 120

Appointment found for this pet:

Appointment ID: 1122334433 Appointment Date: 06-OCT-20

Appointment Start Time: 01-APR-20 10.35.00 AM -07:00

Appointment Duration: 50

Appointment found for this pet:

Appointment ID: 9799693507 Appointment Date: 03-MAR-30

Appointment Start Time: 01-APR-20 01.23.00 AM -07:00

Appointment Duration: 125

Enter the Appointment ID of the appointment you would like to cancel: 9799693508

\*\*CONFIRM CANCELLATION: Are you sure you want to delete Appointment #9799693508 ? (y/n)\*\*y

Appointment successfully cancelled.

Above shows before and after deleting the appointment.

#### Generate Medical History (H)

#### Added Incorrect Input to Demonstrate Error Checking:

Please enter your command: H

Please enter the customer's Account ID to search OR Pet ID: abc

Value must be between 6 and 6 characters.

Please try again

1234

Value must be between 6 and 6 characters.

Please try again

198775

\*\*\*\*\*\*\*\*\*\*\*\*\*

* Account ID: 198775  * Full Name: Hollis Stillwell  * Email Address: hstillwell0@theatlantic.com  * Address: 8893 Bonner Lane
**Hollis Stillwell's Pets **
PET 1:  * Pet ID: 385764  * Pet's Name: Zulu  * Pet's Age: 7  * Species/Type: dog  * Colour: Brown  * Weight(lbs): 4
Enter the pet ID you would like to generate a report of: 123 Value must be between 6 and 6 characters. Please try again abc Value must be between 6 and 6 characters. Please try again 385764
MEDICAL HISTORY
**************************************
* MEDICAL NOTES: Rad node dissection NOS * Record No. 2666987175 PRESCRIPTION HISTORY
**************************************
* Rx #: 16585521 * Refill #: 1 * Expiration Date: 02-NOV-17 * \$6.94 (CAD)

Please enter your command:

#### Generate Reminder Contacts Report (R)

Please enter your command: R

Zulu's owner, Hollis Stillwell, needs a check-up reminder

**CONTACT INFO:** 

\* Email: hstillwell0@theatlantic.com \* Mailing Address: 8893 Bonner Lane

\* Account ID: 198775

\*

Alfa's owner, Darcee Danne, needs a check-up reminder CONTACT INFO:

\* Email: ddanne2@dot.gov

\* Mailing Address: 1 Blackbird Junction

\* Account ID: 154436

\*

# [ Most Entries deleted to shorten report length, please see Report3-7-2020.txt for full results ]

\*

Chester's owner, Natty Drinkale, needs a check-up reminder CONTACT INFO:

\* Email: ndrinkale1b@nydailynews.com

\* Mailing Address: 65 Sundown Pass

\* Account ID: 284959

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Would you like to print a contact-sheet for 38 patients? (y/n)

У

Report generated.

Please enter your command: E

elliottt@otter:~/csci370/project\$ Is

Makefile Report3-7-2020.txt vet vet.cpp vet.o

Report Report3-7-2020.txt is included in submission.