PET WELLNESS CLINIC

DBS211 – NHH

Fall 2023

Milestone 2 - Group 5

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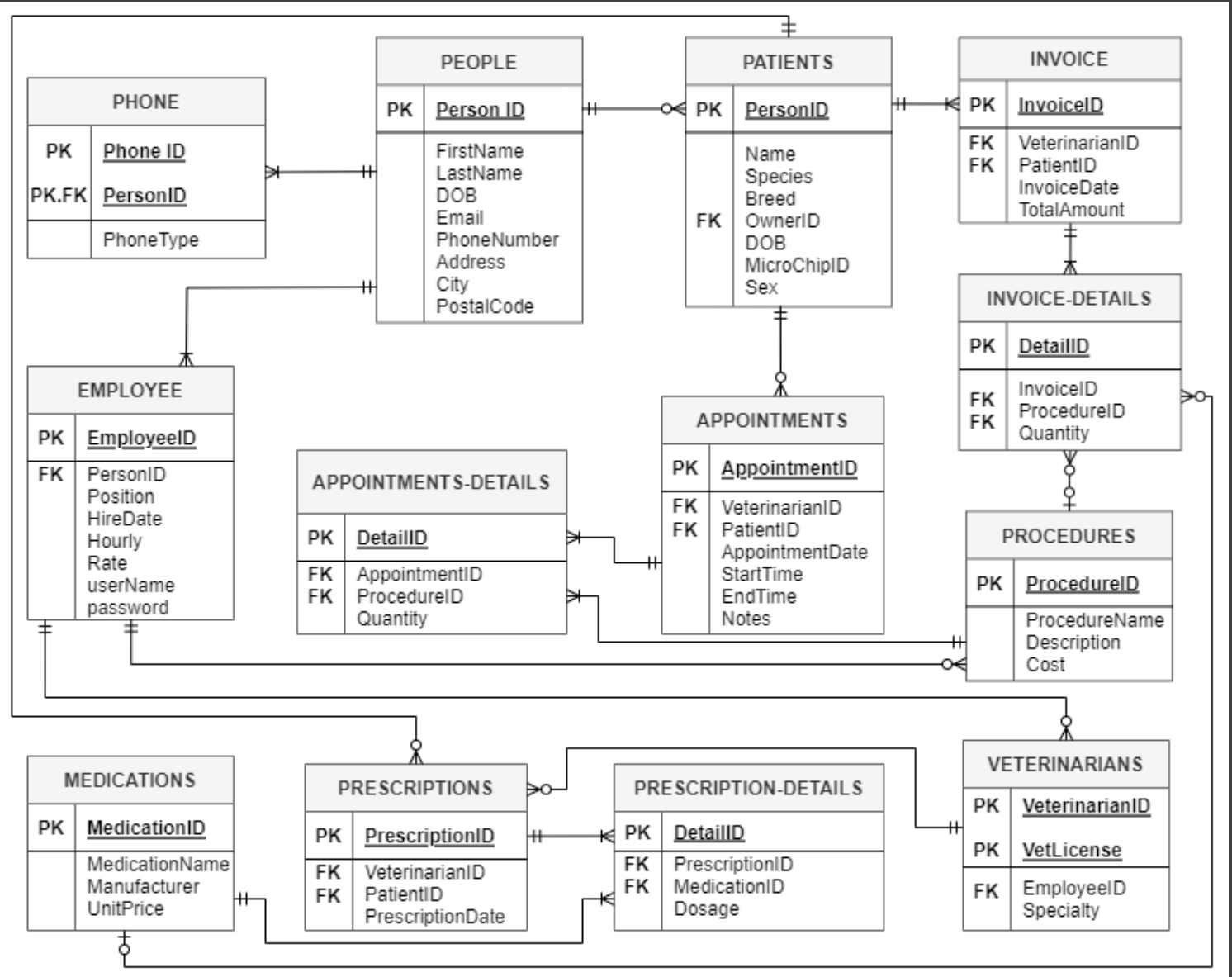
Ryan Gillespie

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DISCLAIMER

We're thrilled to showcase a preview of our entity relationship diagram (ERD) and project dictionary for DBS211. While we've encountered limitations affecting certain details, we've worked diligently on the project.

Throughout development, we've noted missing key elements like vendor categorization and essential features such as inventory management and record-keeping for Pet Wellness Clinic. However, in a real-world scenario, our commitment is to thoroughly cover these necessities.

Specifically designed for Pet Wellness Clinic,' our system efficiently links pets to owners, appointments to services, and services to employees. To ensure robust data security, we're implementing access restrictions at the SQL level.

Although this demo won't showcase the user interface, providing an excellent user experience remains our priority. We appreciate this opportunity and are dedicated to delivering a solution aligned with Pet Wellness Clinic's vision and goals.

ENTITY RELATIONSHIP DIAGRAM (ERD)

DICTIONARY

PATIENTS								
Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
PatientID	INT	-	-	PK	Yes	1-9999	215	Auto numbered identity
Name	VARCHAR	50	-	-	Yes	-	"Tyson"	Patient's name
Species	VARCHAR	50	-	-	Yes	-	"Dog"	Patient's species
Breed	VARCHAR	50	-	-	Yes	-	"American Bully"	Patient's breed
OwnerID	INT	-	-	FK	Yes	1-9999	3190	Foreign key to People table
Dob	Date	-	-	-	Yes	-	2022-12-15	Date of Birth
MicroChipID	Char	20	-	-	No	-	632104598756432	-
Sex	Char	2	-	-	Yes		"Male"	Male or Female

PEOPLE								
Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
PersonID	INT	-	-	PK	Yes	1 - 9999	3130	Auto number identity
FirstName	VARCHAR	50	-	-	Yes	-	"Sean"	First name
LastName	VARCHAR	50	-	-	Yes	-	"John"	Last name
DOB	DATE	-	-	-	Yes	-	1991-12-18	Date of Birth (YYYY/MM/DD)
Email	VARCHAR	100	-	-	No	-	"seanjohn@email.com"	Email
PhoneNumber	VARCHAR	10	-	-	No	-	"289-123-9078"	Phone Number
Adress	VARCHAR	100			Yes	-	120 Kingston Rd	-
City	VARCHAR	25	Toronto		Yes	-	Toronto	-
PostalCode	CHAR	6			Yes	-	M1M1P5	-

PHONE

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
PhoneID	INT	10	-	PK	Yes	1111111111 - 9999999999	5489673190	Auto number identity
PersonID	INT	4,0	-	FK PK	Yes	11111 - 9999	1234	Foreign Key to People table
PhoneType	VARCHAR	10	mobile	-	Yes	-	"Cell"	cell/home

EMPLOYEE

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
EmployeeID	INT	-	-	PK	Yes	1 - 9999	4321	Auto number identity
PersonID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to People table
Position	Varchar	50	-	-	Yes	-	"Veterinarian"	Employee's position
HireDate	Date	-	-	-	Yes	-	"2023-12-18"	Date of hire
HourlyRate	Decimal	5,2	-	-	Yes	0.00 - 999	30.25	-
userName	Varchar	10	-	-	No	-	"sean_john"	-
password	Varchar	10			No	-	"lovepets"	-

VETERINARIANS

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
VeterinarianID	INT	4, 0	-	PK	Yes	1000-9999	4561	Auto number identity
EmployeeID	INT	-	-	FK	Yes	1 -9999	4321	Foreign key to Employees table
Specialty	Varchar	50	-	-	No	-	"Dermatology"	Veterinarian's specialty
VetLicense	Char	10	-	PK	Yes	-	XX-000000-XX	-

APPOINTMENTS								
Column	**Data Type**	**Size/Precision**	**Default**	**PK/FK**	**Required**	**Range**	**Sample Data**	**Notes**
AppointmentID	INT	-	-	PK	Yes	1 - 9999	5678	Auto number identity
VeterinarianID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Veterinarians table
PatientID	INT	-	-	FK	Yes	1 - 9999	4321	Foreign key to Patients table
AppointmentDate	Date	-	--		Yes	-	"2023-11-25"	Date of appointment
StartTime	Time	-	-	-	Yes	-	"2:15 PM"	Start time of appointment
EndTime	Time	-	-	-	Yes	-	"03:15 PM"	End time of appointment
Notes	Varchar	255	-	-	No	-	"Follow-up"	Additional notes for the appointment

APPOINTMENTS -DETAILS								
Column	**Data Type**	**Size/Precision**	**Default**	**PK-FK**	**Required**	**Range**	**Sample Data**	**Notes**
DetailID	INT	-	-	PK	Yes	1 - 9999	111	Auto number identity
AppointmentID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Appointments table
ProcedureID	INT	-	-	FK	Yes	1 - 9999	112	Foreign key to Procedures table
Quantity	INT	-	1	-	Yes	1 - 100	1	Quantity of the procedures for the appointment

PROCEDURES

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
ProcedureID	INT	-	-	PK	Yes	1 - 9999	112	Auto number identity
ProcedureName	VARCHAR	100	-	-	Yes	-	"Vaccination"	Name of the procedure
Description	VARCHAR	255	-	-	No	-	"Annual shots"	Description of the procedure
Cost	DECIMAL		0.00	-	Yes	0.00 – 9999.99	100.00	Cost of the procedure

PRESCRIPTIONS

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
PrescriptionID	INT	-	-	PK	Yes	1 - 9999	111	Auto number identity
VeterinarianID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Veterinarians table
PatientID	INT	-	-	FK	Yes	1 - 9999	4321	Foreign key to Patients table
PrescriptionDate	Date	-	-	-	Yes	-	"2023-11-25"	Date of prescription

PRESCRIPTION-DETAILS

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
DetailID	INT	-	-	PK	Yes	1 - 9999	111	Auto number identity
PrescriptionID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Prescription table
MedicationID	INT	-	-	FK	Yes	1 - 9999	112	Foreign key to Medication table
Dosage	VARCHAR	30	-	-	Yes	-	"Three times a day 20mg"	Dosage instructions for the medication

MEDICATIONS

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
MedicationID	INT	-	-	PK	Yes	1 - 9999	112	Auto number identity
MedicationName	VARCHAR	100	-	-	Yes	-	"Stool Meds"	Name of the medication
Manufacturer	VARCHAR	100	-	-	No	-	"ToVet"	Manufacturer of the medication
UnitPrice	DECIMAL	9, 2	0.00	-	Yes	0.00 – 999.99	50.00	Cost per unit of medication

INVOICE

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
InvoiceID	INT	-	-	PK	Yes	1 - 9999	1234	Autonumber identity
VeterinarianID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Veterinarians table
PatientID	INT	-	-	FK	Yes	1 - 9999	4321	Foreign key to Patients table
InvoiceDate	DATE	-	-	-	Yes	-	"2023-11-25"	Date of invoice
TotalAmount	DECIMAL	5, 1	0.00	-	Yes	0.00 – 99999.99	150.00	Total amount of the invoice

INVOICE-DETAILS

Column	Data Type	Size/Precision	Default	PK/FK	Required	Range	Sample Data	Notes
DetailID	INT	-	-	PK	Yes	1 - 9999	111	Auto number identity
InvoiceID	INT	-	-	FK	Yes	1 - 9999	1234	Foreign key to Invoice table
ProcedureID	INT	-	-	FK	Yes	1 - 9999	112	Foreign key to Procedures table
Quantity	INT	-	2	-	Yes	1 - 100	2	Quantity of the procedure in the invoice