

MY FLUFFY PET

Veterinary clinic

Milestone 2 -Group 4

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DISCLAIMER

The team takes great pleasure in presenting a sample of the Entity Relationship Diagram (ERD) and dictionary for the DBS211 group project. The team understands and acknowledges the inherent limitations of the project, which have impacted the inclusion of certain intricate details.

Throughout the development process, the team has noted the absence of key tables and relationships, such as vendors, which could have been further categorized for improved organization. Additionally, while this demo does not encompass certain essential features like record keeping, inventory, test results, prediction of future vaccines, kennels, boarding, requisitions, account payable, and more, the team would like to emphasize that the awareness of their importance is unwavering. In a real project, the team's commitment is to implement and present all necessary requirements comprehensively, ensuring a solution that meets the client's needs effectively.

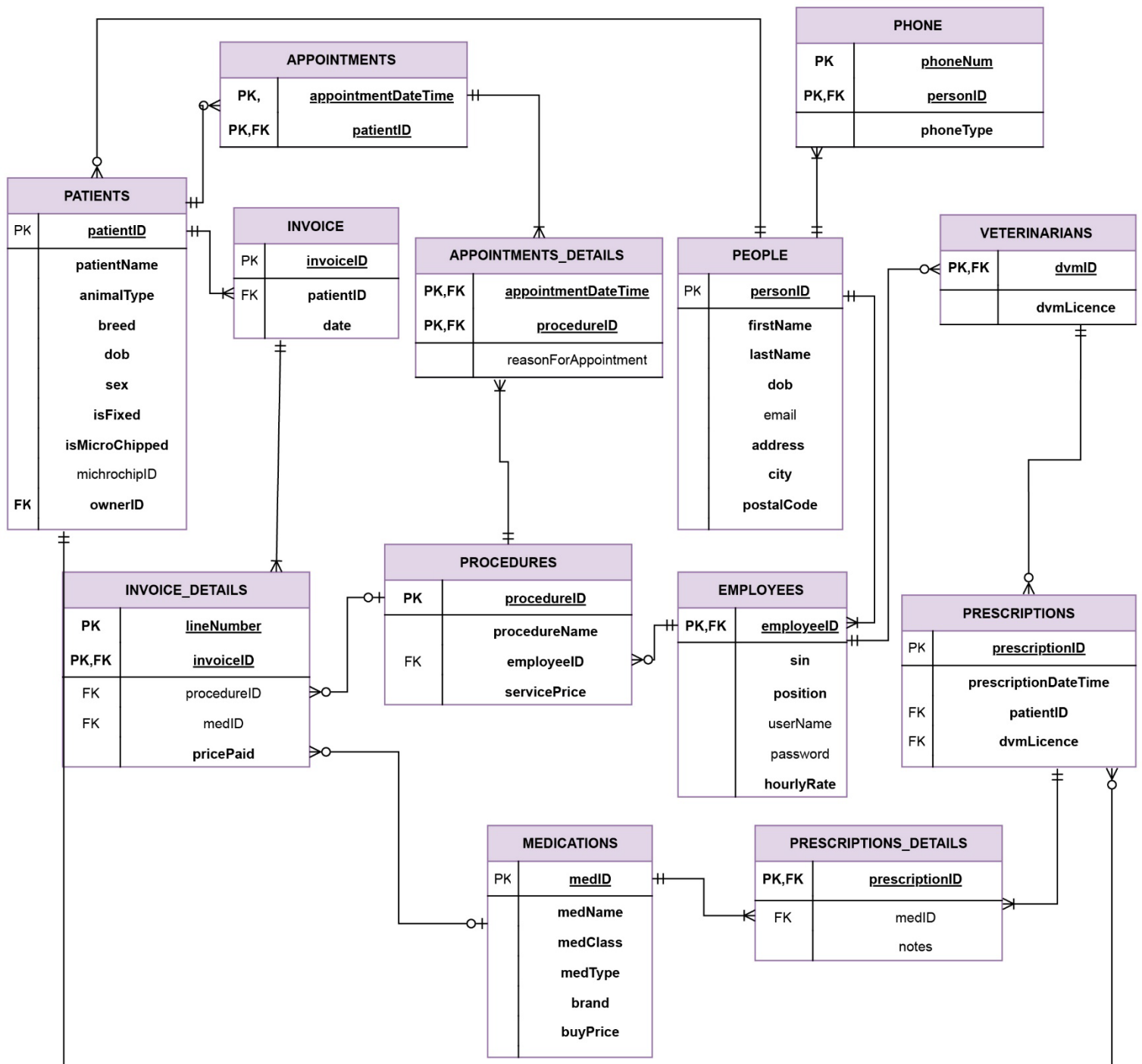
Considering the context of 'My Fluffy Pet' as a small clinic, the system design includes associating each pet with a single owner and linking each appointment to a service, which is in turn associated with one employee, be it a groomer or a Doctor of Veterinary Medicine (DVM). The clinic's infrastructure is purposefully designed to accommodate one exam room and one grooming area.

As the team moves forward, the team's dedication to robust data security remains paramount. The team will implement access restrictions at the SQL level, enabling team members to access data based on their assigned roles. However, the team would like to assure that these security measures will be seamlessly integrated without the need for explicit presentation in the ERD or the dictionary.

A key feature in of the project is the user interface, and the communication with the software will be implemented by an Interactive Media Designer, working closely with the programmers. This collaboration aims to ensure that users have a seamless and enjoyable user experience while using the software. As this project primarily focuses on the database course, the team would like to note that this aspect of the software will not be presented in this demo. However, rest assured that providing an excellent user experience remains a top priority for the team during the development process.

Once again, the team appreciates the opportunity to showcase their progress thus far and eagerly anticipates the future stages of the project. The team is committed to delivering a comprehensive and efficient solution that aligns with the vision and goals of 'My Fluffy Pet.'

ENTITY RELATIONSHIP DIAGRAM (ERD)



DICTIONARY

PATIENTS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
patientID	NUMBER	4, 0		PK	Y	1000-9999	1111	Auto-numbered identity
patientName	VARCHAR	50			Y		"Bubbles"	
animalType	VARCHAR	10 (our clinic sees only domestic pets, dogs, and cats)			Y		"Dog"	
breed	VARCHAR	50			Y		"Azorean Cattle dog"	
dob	DATE				Y		2013-05-18	Date of Birth (YYYY/MM/DD)
sex	CHAR	2			Y		"M"	M/F
isFixed	NUMBER	3			Y			1 yes, 0 no
isMicroChipped	NUMBER	3			Y			1 yes, 0 no
michrochipID	CHAR	20			N		977200000000000	
ownerID	NUMBER	4, 0		FK	Y	1000-9999	4321	Referencing people

PEOPLE								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
personID	NUMBER	4, 0		PK	Y	1000-9999	1234	Auto-numbered identity
firstName	VARCHAR	25			Y		"John"	
lastName	VARCHAR	25			Y		"Doe"	
dob	DATE				Y		1980-03-13	Date of Birth (YYYY/MM/DD)
email	VARCHAR	100			N		John.doe@gmail.com	
address	VARCHAR	100			Y		1000 Yonge Street	
city	VARCHAR	25	Toronto		Y		Toronto	
postalCode	CHAR	6			Y		M2M4K6	

PHONES								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
phoneNum	CHAR	11		PK	Y	2000000000-9999999999	9055551212	Assuming North American phone number
personID	NUMBER	4 , 0		PK FK	Y	1000-9999	1234	Referencing people
phoneType	VARCHAR	10	mobile		Y		"mobile"	mobile/home

EMPLOYEES								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
employeeID	NUMBER	4		PK FK	Y	10000-9999	1234	Referencing people
sin	CHAR	9			Y		844871988	
userName	VARCHAR	10			N		"jane.doe"	
password	VARCHAR	10			N		"13_Apples"	
position	VARCHAR	50			Y		"Certified Veterinarian Assistant"	
hourlyRate	DECIMAL	5, 2			Y	0.00 - 999	30.75	

VETERINARIANS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
dvmID	NUMBER	4 , 0		PK FK	Y	1000-9999	1234	Referencing people / employees
dvmLicence	CHAR	10		PK	Y		XX-0000-XX	

APPOINTMENTS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
appointmentDateTime	DATE			PK	Y		2023-07-28 10:00:00	(YYYY-MM-DD) (HH:MM:SS)
patientID	NUMBER	4 , 0		PK, FK	Y		1234	Referencing patients

APPOINTMENTS_DETAILS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
appointmentDateTime	DATE			PK FK	Y		2023-07-28 10:00:00	(YYYY-MM-DD) (HH:MM:SS)
procedureID	NUMBER	3		PK, FK	Y	111-999	123	Auto-numbered identity

PROCEDURES								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
procedureID	NUMBER	3		PK	Y	111-999	123	Auto-numbered identity
procedureName	VARCHAR	35			Y		“Annual Exam”	
employeeID	NUMBER	4, 0		FK	Y		1234	Referencing people/employees
servicePrice	DECIMAL				Y		85.50	

PRESCRIPTIONS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
prescriptionID	NUMBER	5		PK FK	Y	02300-10000	11111	Auto-numbered identity
prescriptionDateTime	DATE				Y		2023-07-28 10:00:00	(YYYY-MM-DD) (HH:MM:SS)
patientID	NUMBER	4, 0		FK	Y		1234	Referencing patients
dvmLicence	CHAR	10		FK	Y		XX-0000-XX	Referencing vet licence

PRESCRIPTIONS_DETAILS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
prescriptionID	NUMBER	5		PK FK	Y	02000-10000	11111	Referencing prescriptions
medID	NUMBER	5		PK FK	Y	02000-10000	22222	Referencing medications
note	VARCHAR	100			Y		“30 mg tid”	Big box

MEDICATIONS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
medID	NUMBER	5		PK	Y	02000-10000	11111	Auto-numbered identity
medName	VARCHAR	100			Y		"Ketoconazole"	
medClass	VARCHAR	35			Y		"Antifungal"	
medType	VARCHAR	20			Y		"capsule"	
brand	VARCHAR	35			Y		"Nizoral"	
buyPrice	DECIMAL	5, 2			Y		300.98	

INVOICE								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
invoiceID	NUMBER	5		PK	Y	02000-10000	11111	Auto-numbered identity
patientID	NUMBER	4, 0		FK	Y	1000-9999	1234	Referencing patients
date	DATE				Y		2023-07-28	(YYYY-MM-DD)

INVOICE_DETAILS								
COLUMN	DATA TYPE	SIZE, PRECISION	DEFAULT	PK/FK	REQUIRED	RANGE	SAMPLE DATA	NOTES
lineNumber	NUMBER	2		PK	Y	0-99	1	
invoiceID	NUMBER	5		PK FK	Y	02000-10000	11111	Referencing invoices
procedureID	NUMBER	3		FK	N	111-999	123	Referencing procedures
medID	NUMBER	5		FK	N	02000-10000	11111	Referencing medications
pricePaid	DECIMAL	5, 2			Y		300.98	