

EPPS 6454.001 - Vet App

Final Project Presentation

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Introduction

A database for a community-tier veterinary clinic's 'appointment flow' was designed. An end-user application was designed to work as an additional layer in a 'two-tier' architecture via a Shiny application.







For Who?



For Clinical Visits

- What vet?
- What pet?
- What readings?



For Check-Ins

- Date
- Time
- Client
- Reason



Data?

- Biometrics from simulated ranges in the medical/scientific literature.
- Salary ranges from BLS.







Sample Footer Text

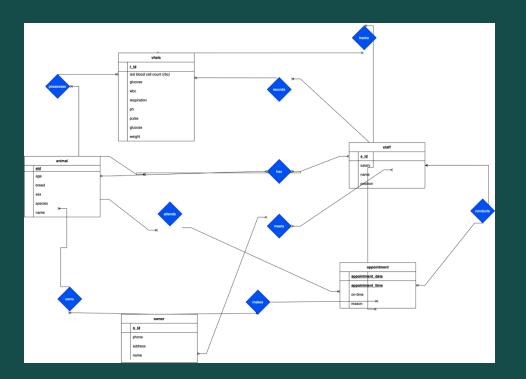
7



E-R Schema

Five Entities

- Nine Relationships
- One composite key
- Cardinalities: 1-to-1 (1), m-to-m (2), 1-to-m (6)







Seven Relations

- 1NF (Domain atomicity)
- 2NF (Can't get attribute from subcomponent of key)
- 3NF (Can't derive a non-key attribute from another non-key attribute)
- Two Cross-Tables (m-to-m)

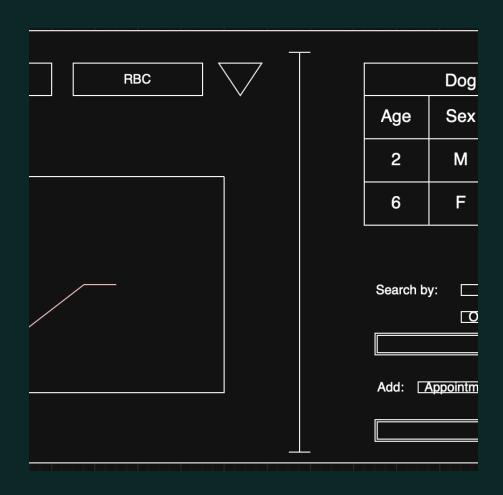
PK	o_id	VARCHAR(255) NOT NULL
	name	VARCHAR(255) NOT NULL
	address	VARCHAR(255) NOT NULL
	phone	VARCHAR(255) NOT NULL
		abolf.
		staff
PK	s_id	staff VARCHAR(255) NOT NULL
PK	s_id name	1
РК		VARCHAR(255) NOT NULL

ĸ	<u>r_id</u>	VARCHAR(255) NOT NULL
_	weight	NUMERIC(5, 2)
	rbc	NUMERIC(5, 2)
	wbc	NUMERIC(5, 2)
	respiration	NUMERIC(5, 2)
	ph	NUMERIC(5, 2)
	pulse	NUMERIC(5, 2)
	glucose	NUMERIC(5, 2)
K	s_id	VARCHAR(255) NOT NULL
ĸ	aid	VARCHAR(255) NOT NULL

PK	aid	VARCHAR(255) NOT NULL
PK	s_id	VARCHAR(255) NOT NULL
FK	aid	VARCHAR(255) NOT NULL
FK	s_id	VARCAHR(255) NOT NULL
	owner_	vet
PK	owner_u	vet VARCHAR(255) NOT NULL
PK		
	o_id	VARCHAR(255) NOT NULL

	animal		
PK	aid	VARCHAR(255) NOT NULL	
	name	VARCHAR(255) NOT NULL	
	age	INTEGER NOT NULL	
	breed	VARCHAR(255)	
	sex	VARCHAR(255) NOT NULL	
	species	VARCHAR(255) NOT NULL	
FK	o_id	VARCHAR(255) NOT NULL	
ш	1		

appointment						
\vdash	арропшен					
PK	appointment_date	DATE NOT NULL				
PK	appointment_time	VARCHAR(255) NOT NULL				
	reason	VARCHAR(255)				
	ontime	VARCHAR(255)				
FK	s_id	VARCHAR(255) NOT NULL				
FK	aid	VARCHAR(255) NOT NULL				
FK	o_id	VARCHAR(255) NOT NULL				
FK	r_id	VARCHAR(255) NOT NULL				



Application

• To display the results of select views, and present searchable database.

← Original Schematic

