Normalization Exercises

Animal Hospital Health History Report

You are helping an animal hospital migrate to a new database platform and part of the work involves designing the new database that will store animal health data.

The hospital has provided an example health history report that they would like to be able to generate and you need to design your data model to support this.

Work with your partner to create an ER diagram and ensure that the design supports 1NF, 2NF, and 3NF when possible. The submission that you provide should include the SQL scripts necessary to create the database and any additional constraints (primary keys, foreign keys, etc.)

Feel free to make some assumptions about the data model but make sure that they are documented at the top of the script if they influence your design decision.

HEALTH HISTORY REPORT

PET ID	PET NAME	PET TYPE	PET AGE	OWNER	VISIT DATE	PROCEDURE
246	ROVER	DOG	12	SAM COOK	JAN 13/2002	01 - RABIES VACCINATION
					MAR 27/2002	10 - EXAMINE and TREAT WOUND
					APR 02/2002	05 - HEART WORM TEST
298	SPOT	DOG	2	TERRY KIM	JAN 21/2002	08 - TETANUS VACCINATION
					MAR 10/2002	05 - HEART WORM TEST
341	MORRIS	CAT	4	SAM COOK	JAN 23/2001	01 - RABIES VACCINATION
					JAN 13/2002	01 - RABIES VACCINATION
519	TWEEDY	BIRD	2	TERRY KIM	APR 30/2002	20 - ANNUAL CHECK UP
					APR 30/2002	12 - EYE WASH

Animal Hospital Health Invoice

You are now designing the data needed for issuing animal hospital invoices.

INVOICE

HILLTOP ANIMAL HOSPITAL   DATE: JAN 13/2002
INVOICE # 987

MR. RICHARD COOK
123 THIS STREET
MY CITY, ONTARIO
Z5Z 6G6

PET	PROCEDURE	AMOUNT
ROVER	RABIES VACCINATION	30.00
MORRIS	RABIES VACCINATION	24.00
	TOTAL	54.00
	TAX (8%)	4.32
	AMOUNT OWING	58.32

Work with your parther to create an ER diagram for this exercise ensuring that it adheres to 1NF, 2NF, and 3NF when possible. The submission that you provide should be in a separate SQL file and include the script necessary to create the database tables and any additional constraints (primary keys, foreign keys, etc.)