CASE 01 -- HILLTOP ANIMAL HOSPITAL

PATIENT APPLICATION SYSTEM

Hilltop Animal Hospital has been caring for small animals for the past 14 years. In that period of time, the hospital has accumulated many patients (the animals) and clients (the owners). All the record keeping has been done by another software package developed in the late 90s and not very sophisticated but it generally worked. However, Hilltop has been experiencing difficulty in tracing health records and the history of client payments.

The decision has been made to redesign the record keeping at Hilltop. Several screens and reports have been designed and shown below to assist you in determining which pieces of data need to be maintained. Of course not all the information that you need can be represented on the screens and reports, therefore you should consider each of the following criteria when developing your database design.

Various modules in the course will ask you to carry out very definite tasks concerning this application. Be sure to complete only the tasks required. It can be futile to jump into the database design without going through the steps systematically.

Patient Application System Considerations

1. Each client must be age 18 or over. A client is the person to whom the bill will be sent. The mailing address and the phone number of the client is absolutely required. All other data is optional.

2. An owner may be a client or a dependent of the client. For example a child may be the owner of a pet. Because we know the client (parent) of the child, we know where to send the bill. Each owner can have only one client, but obviously a client may be responsible for several owners.

3. There can be only one owner per animal, but an owner may have several animals. Each animal will have static data stored such as pet name, age, gender In addition, the history of treatment for the pet must be available. See the Health History report.

4. Each visit the animal makes to the hospital will be coded as to the procedure required, e.g. routine check up, teeth filing etc. An animal can and does make repeated visits for the same procedure. What will make the visit unique will be the date of the visit. An animal can only be billed for a procedure that is on file.

5. The procedures on file will be stored by animal type and then a unique code. A description will accompany each record along with the billing amount.

6. As many names of clients, owners and pets can be duplicated, we have decided to never use the name as a key.

SAMPLE REPORTS AND SCREENS

HEALTH HISTORY REPORT

PET ID PET NAME PET TYPE PET AGE OWNER VISIT DATE PROCEDURE

246 ROVER DOG 12 SAM COOK JAN 13/2010 RABIES VACCINATION

MAR 27/2010 LACERATION, FRONT PAW

APR 02/2010 HEART WORM TEST

298 SPOT DOG 2 TERRY KIM JAN 21/2010 TETANUS VACCINATION

MAR 10/2010 HEART WORM TEST

341 MORRIS CAT 4 SAM COOK JAN 23/2009 RABIES VACCINATION

JAN 13/2010 RABIES VACCINATION

519 TWEEDY BIRD 2 TERRY KIM APR 30/2010 ANNUAL CHECK UP

APR 30/2010 EYE WASH

INVOICE

HILLTOP ANIMAL HOSPITAL DATE: JAN 13/2010

INVOICE # 987

MR. RICHARD COOK OWNER: SAM 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