

Exercise 3

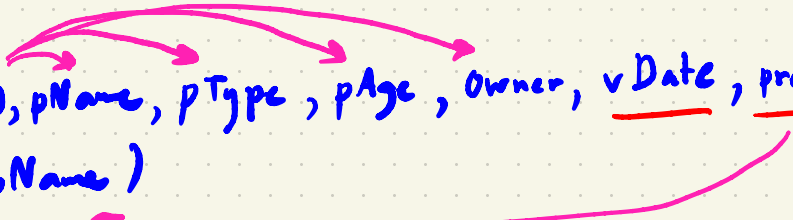
HEALTH HISTORY REPORT

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

Health (pID, pName, pType, pAge, Owner, vDate, procedure)

1NF

Health (pID, pName, pType, pAge, Owner, vDate, proNo,
proName)



2NF

pet (pID, pName, pType, pAge, Owner)

Health (pID, vDate, proNo)

Procedure (proNo, proName)

3NF

Same as 2NF

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Exercise 4

INVOICE

HILLTOP ANIMAL HOSPITAL
INVOICE # 987

DATE: JAN 13 2002

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

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

Invoice (invNo, date, customer, cust-address,
pet-name, procedure, price, tax, total)

1NF

Invoice (invNo, date, customer, cust-address,
pet-name, proNo, proName, price, tax, total)



Invoice (invNo, date, customer, cust-address,
pID, pName, proNo, proName, price, tax, total)

2NF

pet (pID, pName, customer, cust-address)

procedure (proNo, proName, price)

Invoice (invNo, date, pID, proNo, tax, total)

3NF

Procedure (proNo, proName, price)

Pet (pID, pName, custID)

Customer (custID, custName, custAddress)

Invoice (invNo, date, pID, proNo, tax, total)

Exercise 5

The Gill Art Gallery wishes to maintain data on their customers, artists and paintings. They may have several paintings by each artist in the gallery at one time. Paintings may be bought and sold several times. In other words, the gallery may sell a painting, then buy it back at a later date and sell it to another customer.

Gallery Customer History Form

Customer Name

Jackson, Elizabeth
123 - 4th Avenue
Fonthill, ON
L3J 4S4

Phone (206) 284-6783

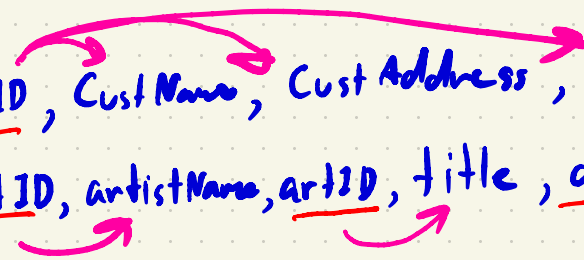
Purchases Made

Artist	Title	Purchase Date	Sales Price
03 - Carol Channing	Laugh with Teeth	09/17/2000	7000.00
15 - Dennis Frings	South toward Emerald Sea	05/11/2000	1800.00
03 - Carol Channing	<u>A</u> t the Movies	02/14/2002	5550.00
15 - Dennis Frings	South toward Emerald Sea	07/15/2003	2200.00

CustHist (CustName, CustAddress, CustPhone,
artist, title, date, price)

1NF

CustHist (CustID, CustName, CustAddress, CustPhone,
artistID, artistName, artID, title, date, price)



2NF

Customer (CustID, CustName, CustAddress, CustPhone)

Artist (artistID, artistName)

CustHist (CustID, artistID, title, date, price)

Art (artID, title, artistID)

3NF

Same as 2NF