

Lab 11 Submission

NAME: Olga Rudina

Produce the final merged 3NF relations for the following two user views:

User View #1

HEALTH HISTORY REPORT

<u>PET ID</u>	<u>PET NAME</u>	<u>PET TYPE</u>	<u>PET AGE</u>	<u>OWNER</u>	<u>VISIT DATE</u>	<u>PROCEDURE</u>
246	ROVER	DOG	12	SAM COOK	JAN 13/2013	01 – DOG RABIES VACCINATION
T.CANINE						07 - DE-WORMING 25 – DOG ANNUAL CHECKUP
341	MORRIS	CAT	4	SAM COOK	AUG 13/2012	02 – CAT RABIES VACCINATION
T.CANINE						JAN 13/2013 02 – CAT RABIES VACCINATION J.KATZ MAR 10/2013 10 - EXAMINE and TREAT WOUND R.BYRD 05 – CAT HEART WORM TEST J.KATZ
342	SPOT	DOG	2	TERRY KIM	JAN 13/2013	08 - TETANUS VACCINATION
R. BYRD						25 – DOG ANNUAL CHECKUP MAR 10/2013 06 – DOG HEART WORM TEST
519	TWEEDY	BIRD	2	TERRY KIM	FEB 26/2013	27 - ANNUAL CHECK UP J.KATZ
						12 - EYE WASH

Start with this UNF:

UNF: [PETID, PET_NAME, PET_TYPE, PET_AGE, CLIENT_ID, CLIENT_NAME, { VISIT_DATE, {PROC#,
PROCEDURE, DOC#, DOCTOR_NAME } }]

1NF:

VISIT_INFO (PETID , VISIT_DATE, PROC#, PET_NAME, PET_TYPE, PET_AGE, CLIENT_ID,
CLIENT_NAME, PROCEDURE, DOC#, DOCTOR_NAME)

2NF:

OLGA RUDINA ID: 039949136, LAB11

PET (**PETID**, PET_NAME, PET_TYPE, PET_AGE, CLIENT_ID, CLIENT_NAME]

VISIT_INFO (**PETID**, **VISIT_DATE**, **PROC#**, DOC#, DOCTOR_NAME)

PROCEDURE (**PROC#**, PROCEDURE)

3NF:

PET (**PETID**, PET_NAME, PET_TYPE, PET_AGE, CLIENT_ID(FK))

VISIT_INFO (**PETID**, **VISIT_DATE**, **PROC#**, DOC#(FK))

PROCEDURE (**PROC#**, PROCEDURE)

CLIENT (**CLIENT_ID**, CLIENT_NAME)

DOCTOR (**DOC#**, DOCTOR_NAME)

User View 2

INVOICE

HILLTOP ANIMAL HOSPITAL

DATE: JAN 13/2013

INVOICE # 987

MR. RICHARD COOK

123 THIS STREET

MY CITY, ONTARIO

Z5Z 6G6

<u>PET</u>	<u>DOCTOR#</u>	<u>PROCEDURE</u>	<u>AMOUNT</u>
ROVER	12	DOG RABIES VACCINATION	30.00
		DE-WORMING	59.00
		DOG ANNUAL CHECKUP	45.00
MORRIS	23	CAT RABIES VACCINATION	24.00
TOTAL			158.00
TAX (13%)			<u>20.54</u>
AMOUNT OWING			<u>178.54</u>

UNF: (INVOICE#, HOSPITAL_NAME, HOSPITAL_ADDR, INV_DATE, CLIENT_ID, CLIENT_NAME, CLIENT_ADDRESS, {PET ID, PET_NAME, DOCTOR#, {PROC#, PROCEDURE, COST}})

1NF: INVOICE (INVOICE#, PET ID, PROC#, HOSPITAL_NAME, HOSPITAL_ADDR, INV_DATE, CLIENT_ID, CLIENT_NAME, CLIENT_ADDRESS, PET_NAME, DOCTOR#, PROCEDURE, COST)

2NF:

INVOICE (INVOICE#, HOSPITAL_NAME, HOSPITAL_ADDR, INV_DATE, CLIENT_ID, CLIENT_NAME, CLIENT_ADDRESS)

VISIT_INFO(INVOICE#, PET ID, PROC#, COST)

PET(PET ID, PET_NAME, DOCTOR#)

PROCEDURE (PROC#, PROCEDURE)

3NF:

INVOICE (INVOICE#, HOSPITAL_NAME, INV_DATE, CLIENT_ID (FK))

VISIT_INFO(INVOICE#, PET ID, PROC#, COST)

PET(PET ID, PET_NAME, DOCTOR#)

PROCEDURE (PROC#, PROCEDURE)

CLIENT(CLIENT ID, CLIENT_NAME, CLIENT_ADDRESS)

Merged:

PET (PETID, PET_NAME, PET_TYPE, PET_AGE, CLIENT_ID(FK))

CLIENT(CLIENT ID, CLIENT_NAME, CLIENT_ADDRESS)

DOCTOR (DOC#, DOCTOR_NAME)

VISIT_INFO (PETID, VISIT DATE, PROC#, DOC#(FK))

PROCEDURE (PROC#, PROCEDURE)

INVOICE (INVOICE#, HOSPITAL_NAME, INV_DATE, CLIENT_ID (FK))

INVOICE_DET(INVOICE#, PET ID, PROC#, COST)