LAPORAN ASSIGMENT PRAKTIKUM BASIS DATA

"Normalization"



Nama : Faris Qanit

NIM : 20/462180/PA/20152

Dosen : Dzikri Rahadian Fudholi, S.Kom., M.Comp.

Tanggal: 13 November 2021

Kelas : KOMB

LAB. ELEKTRONIKA DASAR DAN LAB. INSTRUMENTASI DASAR DEPARTEMEN ILMU KOMPUTER DAN ELEKTRONIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS GADJAH MADA

2021

ACTIVITY 10 NORMALISATION

Normalization Exercise 1

PET ID	PET NAME	PET TYPE	PET AGE	<u>OWNER</u>	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
100 TO 100	0 1 *04500 A FISC P* 00 * 00	19749997902-1105-11079P	A-200FT.	and a construction of the C	APR 30/2002	12 - EYE WASH

UNF:

Pet ID	Pet Name	Pet Type	Pet Age	Owner	Visit Date	Procedure
246	Rover	Dog	12	Sam	2002-01-	01 – RABIES
				Cook	13	VACCINATION
					2002-03-	10 – EXAMINE AND
					27	TREAT WOUND
					2002-04-	05 – HEART WORM
					02	TEST

298	Spot	Dog	2	Terry	2002-01-	08 – TETANUS
				Kim	21	VACCINATION
					2002-10-	05 – HEART WORM
					03	TEST
341	Morris	Cat	4	Sam	2001-01-	01 – RABIES
				Cook	23	VACCINATION
					2002.01	O1 DADIEC
					2002-01-	01 – RABIES
					13	VACCINATION
519	Tweedy	Bird	2	Terry	2002-04-	20 – ANNUAL
				Kim	30	CHECK UP
					2002-04-	12 – EYE WASH
					30	

Pet ID	Pet Name	Pet Type	Pet Age	Owner
246	Rover	Dog	12	Sam Cook
298	Spot	Dog	2	Terry Kim
341	Morris	Cat	4	Sam Cook
519	Tweedy	Bird	2	Terry Kim

Pet ID	Visit Date	Procedure
246	2002-01-13	01 – RABIES
		VACCINATION

246	2002-03-27	10 – EXAMINE
		AND TREAT
		WOUND
246	2002-04-02	05 – HEART
		WORM TEST
298	2002-01-21	08 – TETANUS
		VACCINATION
298	2002-10-03	05 – HEART
		WORM TEST
341	2001-01-23	01 – RABIES
		VACCINATION
341	2002-01-13	01 – RABIES
		VACCINATION
519	2002-04-30	20 – ANNUAL
		CHECK UP
519	2002-04-30	12 – EYE
		WASH

Pet ID	Pet Name	Pet Type	Age	Owner
246	Rover	Dog	12	Sam Cook
298	Spot	Dog	2	Terry Kim
341	Morris	Cat	4	Sam Cook
519	Tweedy	Bird	2	Terry Kim

Pet ID	Visit Date	ProcedureNo.	ProcedureName
246	2002-01-13	01	RABIES
			VACCINATION
246	2002-03-27	10	EXAMINE AND
			TREAT WOUND
246	2002-04-02	05	HEART WORM
			TEST
298	2002-01-21	08	TETANUS
			VACCINATION
298	2002-10-03	05	HEART WORM
			TEST
341	2001-01-23	01	RABIES
			VACCINATION
341	2002-01-13	01	RABIES
			VACCINATION
519	2002-04-30	20	ANNUAL
			CHECK UP
519	2002-04-30	12	EYE WASH

Pet ID	Pet Name	Pet Type	Age	Owner
246	Rover	Dog	12	Sam Cook
210	Rover	D05	12	Sum Cook
298	Spot	Dog	2	Terry Kim
341	Morris	Cat	4	Sam Cook

519	Tweedy	Bird	2	Terry Kim

Pet ID	Visit Date	<u>ProcedureNo</u> .
246	2002-01-13	01
246	2002-03-27	10
246	2002-04-02	05
298	2002-01-21	08
298	2002-10-03	05
341	2001-01-23	01
341	2002-01-13	01
519	2002-04-30	20
519	2002-04-30	12

ProcedureNo.	ProcedureName
01	RABIES VACCINATION
05	HEART WORM TEST
08	TETANUS VACCINATION
10	EXAMINE AND TREAT WOUND
12	EYE WASH
20	ANNUAL CHECK UP

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

Normalization Exercise 2

UNF:

INVOICE	OWNER	DATE	ADDRESS	PET	PROCEDURE	AMOUNT
ID				NAME		
987	RICHARD	JAN	123 THIS	ROVER	RABIES	30.00
	COOK	13/2002	STREET,		VACCINATION	
			MY CITY,			
			ONTARIO,			
			Z5Z 6G6			
987	RICHARD	JAN	123 THIS	MORRIS	RABIES	24.00
	COOK	13/2002	STREET,		VACCINATION	
			MY CITY,			
			ONTARIO,			
			Z5Z 6G6			

1NF:

Tabel Invoice

INVOICE	OWNER	DATE	STREET	CITY	POST
ID					CODE
987	RICHARD	JAN	123 THIS	MY CITY,	Z5Z
	COOK	13/2002	STREET	ONTARIO	6G6

987	RICHARD	JAN	123 THIS	MY CITY,	Z5Z
	COOK	13/2002	STREET	ONTARIO	6G6

Tabel Purchase

INVOICE	PET ID	PET	PROCEDURE	AMOUNT
ID		NAME	NAME	
987	246	ROVER	RABIES	30.00
			VACCINATION	
987	341	MORRIS	RABIES	24.00
			VACCINATION	

2NF:

Tabel Invoice

INVOICE	OWNER	DATE	STREET	CITY	POST
ID					CODE
987	RICHARD	JAN	123 THIS	MY CITY,	Z5Z
	COOK	13/2002	STREET	ONTARIO	6G6
987	RICHARD	JAN	123 THIS	MY CITY,	Z5Z
	COOK	13/2002	STREET	ONTARIO	6G6

Tabel Purchase

INVOICE	PET ID	PROCEDURE	AMOUNT
ID		NAME	
987	246	RABIES	30.00
		VACCINATION	
987	341	RABIES	24.00
		VACCINATION	

Tabel Pet

PET ID	PET
	NAME
246	ROVER
341	MORRIS

3NF:

Tabel Invoice

INVOICE	DATE	OWNER
ID		ID
987	JAN	227
	13/2002	

987	JAN	227
	13/2002	

Tabel Purchase

INVOICE	PET ID	PROCEDURE	AMOUNT
ID		NAME	
987	246	RABIES	30.00
		VACCINATION	
987	341	RABIES	24.00
		VACCINATION	

Tabel Pet

PET ID	PET
	NAME
246	ROVER
341	MORRIS

Tabel Owner

OWNER	OWNER	STREET	CITY	POST
ID				CODE
227	RICHARD	123 THIS	MY CITY,	Z5Z
	COOK	STREET	ONTARIO	6G6

Gallery Customer History Form

Customer Name

Jackson, Elizabeth

Phone (206) 284-6783

123 - 4th Avenue

Fonthill, ON

L3J 4S4

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	At the Movies	02/14/2002	5550.00
15 - Dennis Frings	South toward Emerald Sea	07/15/2003	2200.00

Normalization Exercise 3

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. **UNF:**

CUSTOMER	ADDRES	PHONE	ARTIST	TITTLE	PURCHASE	SALES PRICE
NAME	S	NUMB			DATE	
		ER				
JACKSON,	123-4 th	(206) 28	03-CAROL	LAUGH	09/17/2000	7000.00
ELIZABETH	AVENUE	4-6783	CHANNING	WITH		
	FONTHI			ТЕЕТН		
	LL, ON,					

	L3J 4S4					
JACKSON,	123-4 th	(206)28	15- DENNIS	SOUTH	05/11/2000	1800.00
ELIZABETH	AVENUE	4-6783	FRINGS	TOWARD		
	FONTHI			EMERALD		
	LL, ON,			SEA		
	L3J 4S4					
JACKSON,	123-4 th	(206)28	03-CAROL	AT THE	02/14/2002	5550.00
ELIZABETH	AVENUE	4-6783	CHANNING	MOVIE		
	FONTHI					
	LL, ON,					
	L3J 4S4					
JACKSON,	123-4 th	(206)28	15-DENNIS	SOUTH	07/15/2003	2200.00
ELIZABETH	AVENUE	4-6783	FRINGS	TOWARD		
	FONTHI			EMERALD		
	LL, ON,			SEA		
	L3J 4S4					

Tabel Customer

CUSTOME	CUSTOME	STREET	CITY	POST	PHONE
R ID	R NAME			CODE	NUMBER
C01	JACKSON,	123-4 th	FONT	L3J	(206)284-6783
	ELIZABET	AVENU	HILL,	4S4	
	Н	Е	ON		

Tabel Art

CUSTOMER	ARTIST	ARTIST	PAINTING	TITTLE	PURCHASE	SALES
ID	ID		ID		DATE	PRICE
C01	03	CAROL	P03	LAUGH	09/17/2000	7000.00
		CHANNIN		WITH		
		G		TEETH		
C01	15	DENNIS	P02	SOUTH	05/11/2000	1800.00
		FRINGS		TOWARD		
				EMERALD		
				SEA		
C01	03	CAROL	P05	AT THE	02/14/2002	5550.00
		CHANNIN		MOVIE		
		G				

15	DENNIS	P02	SOUTH	07/15/2003	2200.00
	FRINGS		TOWARD		
			EMERALD		
			SEA		

Tabel Customer

	CUSTOME	CUSTOME	STREET	CITY	POST	PHONE
	R ID	R NAME			CODE	NUMBER
ľ	C01	JACKSON,	123-4 th	FONT	L3J	(206)284-6783
		ELIZABET	AVENU	HILL,	4S4	
		Н	Е	ON		

Tabel Purchase

CUSTOMER	PAINTING	PURCHASE	SALES PRICE
ID	ID	DATE	
C01	P03	09/17/2000	7000.00
C01	P02	05/11/2000	1800.00
C01	P05	02/14/2002	5550.00
C01	P02	07/15/2003	2200.00

Tabel Painting

PAINTING	TITTLE	ARTIST ID	ARTIST
ID			NAME
P03	LAUGH	03	CAROL
	WITH		CHANNING
	TEETH		
P02	SOUTH	15	DENNIS
	TOWARD		FRINGS
	EMERALD		
	SEA		
P05	AT THE	03	CAROL
	MOVIE		CHANNING

3NF:

Tabel Customer

CUSTOME	CUSTOME	STREET	CITY	POST	PHONE
R ID	R NAME			CODE	NUMBER

C01	JACKSON,	123-4 th	FONT	L3J	(206)284-6783
	ELIZABET	AVENU	HILL,	4S4	
	Н	Е	ON		

Tabel Purchase

CUSTOMER	PAINTING	PURCHASE	SALES PRICE
ID	ID	DATE	
C01	P03	09/17/2000	7000.00
C01	P02	05/11/2000	1800.00
C01	P05	02/14/2002	5550.00
C01	P02	07/15/2003	2200.00

Tabel Painting

PAINTING	TITTLE	ARTIST ID
ID		
P03	LAUGH	03
	WITH	
	TEETH	
P02	SOUTH	15
	TOWARD	
	EMERALD	
	SEA	
P05	AT THE	03
	MOVIE	

Tabel ARTIST

ARTIST ID	ARTIST	
	NAME	
03	CAROL	
	CHANNING	
15	DENNIS	
	FRINGS	