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Relational database

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Group1\_Assignment 3

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-- Part one --

##Step 1

CREATE DATABASE Assignment3;

USE Assignment3;

##Used data import wizard

##Step 2

INSERT INTO `my\_contacts` (`last\_name`,`first\_name`,`email`,`gender`,`birthday`,`profession`,`postal\_code`,`status`,`attributes`,`friends`)

VALUES('Oroh','Maro','ogh@gmail.com','M','2000-06-14','Greek Soldier','L6M 5I5','committed relationsh','Smart;Dependable;Cheerful','Tejiri Phido'),

('Agih', 'Chi', 'chi@gmail.com', 'M', '2001-02-14', 'Baker', 'L6M 5e5', 'committed relationsh','Annoying;Dependable;Cheerful', 'Jacob Sartorius'),

('Matt', 'Gut', 'gut@gmail.com', 'F', '1995-03-17', 'Field Marshall', 'Y6M 4I5', 'married','Funny;Intellectual;Cheerful', 'Lucy Willa'),

('Katy', 'Akoto', 'akt@gmail.com', 'F', '1987-01-12', 'Accountant', 'U1D 2B(', 'single','Empathetic;Well-Mannered;Resourceful', 'Joel Schneider'),

('Gharius', 'Patrick', 'gha@gmail.com', 'M', '2002-11-28', 'Student', 'P1K 4X9', 'committed relationsh','Energetic;Sly;Quick-Witted', 'James Julius'),

('Julius', 'James', 'jul@gmail.com', 'M', '2005-06-14', 'Student', 'L1Y 2H8', 'single','Resourceful;Intelligent;Genius', 'Gabby Martinez'),

('Martinez', 'Gabby', 'mar@gmail.com', 'F', '1999-12-03', 'Barista', 'Y2M 8R4', 'single','Smart;Dependable;Cheerful', 'Gerry Rogers'),

('Rogers', 'Gerry', 'rog@gmail.com', 'F', '1992-03-14', 'Software Engineer', 'P6L 8I8', 'married','Smart;Quick-Witted;Meticulous', 'Lisa Terry'),

('Terry', 'Lisa', 'ter@gmail.com', 'F', '1998-07-21', 'Dancer', 'J1P 3O2', 'committed relationsh','Empathic;Leader;Hard Working', 'Tejiri Phido'),

('Phido', 'Tejiri', 'tej@gmail.com', 'F', '2001-06-28', 'Bus. Exec', 'E1E 3I3', 'committed relationsh','Smart;Leader;Funny', 'Oghenemaro Oroh');

SELECT \*

FROM my\_contacts;

#Step 3

ALTER TABLE my\_contacts

ADD COLUMN ID INT NOT NULL AUTO\_INCREMENT FIRST,

ADD PRIMARY KEY (ID);

#Adds an autoincrementing primary key to my\_contacts

CREATE TABLE attributes

SELECT attributes

FROM my\_contacts;

#Extracts the my-contacts.attributes column to a new table

ALTER TABLE attributes

ADD COLUMN attribute\_1 VARCHAR(25),

ADD COLUMN attribute\_2 VARCHAR(25),

ADD COLUMN attribute\_3 VARCHAR(25);

#Adds two empty columns to contain attribute data

SELECT \*

FROM attributes;

UPDATE attributes

SET attribute\_1 = SUBSTRING\_INDEX(attributes,';',1)

WHERE LENGTH (attributes)>0;

#Copies the first attribute to attributes\_1 from the attributes column

UPDATE attributes

SET attributes = SUBSTR(attributes,LENGTH(attribute\_1)+2)

WHERE LENGTH(attributes)>0;

#Removes the first attribute from attribute by extracting a substring that only

#starts at the position of attribute\_1+2

UPDATE attributes

SET attribute\_2 = SUBSTRING\_INDEX(attributes,';',1)

WHERE LENGTH (attributes)>0;

#Copies the second attribute to attributes\_2 from the attributes column

UPDATE attributes

SET attributes = SUBSTR(attributes,LENGTH(attribute\_2)+2)

WHERE LENGTH(attributes)>0;

#Removes the first attribute from attributes by extracting a substring that only

#starts at the position of attribute\_1+2

UPDATE attributes

SET attribute\_3 = SUBSTRING\_INDEX(attributes,';',1)

WHERE LENGTH (attributes)>0;

#Copies the second attribute to attributes\_3 from the attributes column

ALTER TABLE attributes DROP COLUMN attributes;

ALTER TABLE attributes

ADD COLUMN ID INT NOT NULL AUTO\_INCREMENT FIRST,

ADD PRIMARY KEY (ID);

#Adds an autoincrementing primary key to attributes

#Creating friends table

CREATE TABLE friends

SELECT friends

FROM my\_contacts;

#Extracts the my-contacts.friends column to a new table

ALTER TABLE friends

ADD COLUMN friend\_1 VARCHAR(45),

ADD COLUMN friend\_2 VARCHAR(45);

#Adds two empty columns to contain friends data

SELECT \*

FROM friends;

#test

UPDATE friends

SET friend\_1 = SUBSTRING\_INDEX(friends,';',1)

WHERE LENGTH (friends)>0;

#Copies the first friend to friendss\_1 from the friends column

UPDATE friends

SET friends = SUBSTR(friends,LENGTH(friend\_1)+2)

WHERE LENGTH(friends)>0;

#Removes the first friend from friends by extracting a substring that only

#starts at the position of friends\_1+2

UPDATE friends

SET friend\_2 = SUBSTRING\_INDEX(friends,';',1)

WHERE LENGTH (friends)>0;

#Copies the first friend to friends\_1 from the attributes column

UPDATE friends

SET friends = SUBSTR(friends,LENGTH(friend\_2)+2)

WHERE LENGTH(friends)>0;

#Removes the first friend from friends by extracting a substring that only

#starts at the position of friends\_1+2

ALTER TABLE friends DROP COLUMN friends;

ALTER TABLE friends

ADD COLUMN ID INT NOT NULL AUTO\_INCREMENT FIRST,

ADD PRIMARY KEY (ID);

#Adds an autoincrementing primary key to friends

#Creating contact\_friends table

CREATE TABLE contact\_friends

SELECT ID AS contact\_ID

FROM my\_contacts;

ALTER TABLE contact\_friends ADD COLUMN friend\_id INT(11) NOT NULL;

UPDATE contact\_friends c

INNER JOIN my\_contacts m

SET c.friend\_id = m.ID;

SELECT \*

FROM contact\_friends;

#test

#Creating contact\_attributes table

CREATE TABLE contact\_attributes

SELECT ID AS contact\_ID

FROM my\_contacts;

UPDATE contact\_attributes c

INNER JOIN my\_contacts

SET c.attribute\_id = my\_contacts.ID;

#Matching column data to another

SELECT \*

FROM my\_contacts;

#testing

ALTER TABLE my\_contacts DROP COLUMN attributes;

ALTER TABLE my\_contacts DROP COLUMN friends;

#Dropping redundant columns

Diagram

Description automatically generated

-- PART 2 --

CREATE TABLE Clients

(

C\_ID INT PRIMARY KEY,

Name Varchar(50),

Address Varchar(100)

);

#Creating clients table with 3 columns

CREATE TABLE Pets

(

P\_ID INT PRIMARY KEY,

Name VARCHAR(20),

C\_ID INT REFERENCES Clients (C\_ID)

);

#creating pets table with 3 columns

CREATE TABLE Pet\_Procedures

(

PP\_ID INT PRIMARY KEY,

Pet\_Procedure Varchar(50),

Amount DOUBLE

);

#Creating Pet Procedures table with 3 columns

CREATE TABLE Sessions

(

S\_ID INT,

C\_ID INT REFERENCES Clients (C\_ID),

P\_ID INT REFERENCES Pets (P\_ID),

PP\_ID INT REFERENCES Pet\_Procedures (PP\_ID)

);

#creating Sessions table with 3 columns

alter table Sessions drop primary key;

CREATE TABLE Invoice

(

I\_ID INT NOT NULL,

C\_ID INT REFERENCES Clients (C\_ID),

S\_ID INT REFERENCES Pet\_Procedures (PP\_ID),

DateOfVisit DATE,

Total DOUBLE,

Tax DOUBLE,

Amount\_Owing DOUBLE

);

#Creating Invoice table with 7 columns

INSERT INTO Clients VALUES (1, 'MR. RICHARD COOK', '123 THIS STREET MY CITY, ONTARIO Z5Z 6G6');

INSERT INTO Clients VALUES (2, 'MRS. DENISE RODMAN', '246 THAT STREET ANOTHER CITY, ONTARIO A1A 1A1');

#Inserting Values into Clients table

SELECT \*

FROM Clients;

#testing

INSERT INTO Pets VALUES (1, 'ROVER', 1);

INSERT INTO Pets VALUES (2, 'MORRIS', 1);

INSERT INTO Pets VALUES (3, 'CHEW BARKA', 2);

INSERT INTO Pets VALUES (4, 'MARY PUPPINS', 2);

#Inserting values into Pets table

SELECT \*

FROM Pets;

#Testing

INSERT INTO Pet\_Procedures VALUES (1, 'RABIES VACCINATION', 30.00);

INSERT INTO Pet\_Procedures VALUES (2, 'RABIES VACCINATION', 24.00);

INSERT INTO Pet\_Procedures VALUES (3, 'SWALLOWED SOCK', 3000.00);

INSERT INTO Pet\_Procedures VALUES (4, 'BLOOD WORK', 150.00);

#Inserting values into Pet\_Procedures table

SELECT \*

FROM Pet\_Procedures;

#testing

INSERT INTO Sessions VALUES (1, 1, 1, 1);

INSERT INTO Sessions VALUES (1, 1, 1, 2);

INSERT INTO Sessions VALUES (2, 2, 2, 3);

INSERT INTO Sessions VALUES (2, 2, 2, 4);

#Inserting values into Sessions table

SELECT \*

FROM Sessions;

#Testing

INSERT INTO Invoice VALUES (1, 1, 1, '2020-01-13', 30, 3.9, 33.9);

INSERT INTO Invoice VALUES (1, 1, 1, '2020-01-13', 24, 3.12, 27.12);

INSERT INTO Invoice VALUES (2, 2, 2, '2020-01-14', 3000, 390, 3390);

INSERT INTO Invoice VALUES (2, 2, 2, '2020-01-14', 150, 19.5, 169.5);

#Inserting Values into Invoice table

SELECT \*

FROM Invoice;

#Testing

Diagram

Description automatically generated