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# Tables:

DROP TABLE IF EXISTS prg\_cat

DROP TABLE IF EXISTS prg\_litter

DROP TABLE IF EXISTS prg\_kitten

DROP TABLE IF EXISTS prg\_characteristic

DROP TABLE IF EXISTS prg\_adopter

DROP TABLE IF EXISTS prg\_organization

CREATE TABLE prg\_organization (

organization\_id int identity,

address varchar(50) NOT NULL,

email\_addresss varchar(30) unique NOT NULL,

phone\_number int NOT NULL,

drop\_off\_date\_time datetime NOT NULL,

CONSTRAINT PK\_prg\_organization PRIMARY KEY (organization\_id),

)

CREATE TABLE prg\_adopter (

adopter\_id int identity,

name varchar(30) NOT NULL,

address varchar(50) NOT NULL,

phone\_number int NOT NULL,

email\_addresss varchar(30) unique NOT NULL,

pick\_up\_date\_time datetime NOT NULL,

CONSTRAINT PK\_prg\_adopter PRIMARY KEY (adopter\_id),

)

CREATE TABLE prg\_characteristic (

characteristic\_id int identity,

age int NOT NULL,

weight float NOT NULL,

breed varchar(30),

color varchar(15),

CONSTRAINT PK\_prg\_characteristic PRIMARY KEY (characteristic\_id)

)

CREATE TABLE prg\_kitten(

kitten\_id int identity,

name varchar(15) NOT NULL,

vaccine\_status bit,

adopter\_id int,

characteristic\_id int NOT NULL,

CONSTRAINT PK\_prg\_kitten PRIMARY KEY (kitten\_id),

CONSTRAINT FK1\_prg\_kitten FOREIGN KEY (characteristic\_id) REFERENCES prg\_characteristic(characteristic\_id),

CONSTRAINT FK2\_prg\_kitten FOREIGN KEY (adopter\_id) REFERENCES prg\_adopter(adopter\_id)

)

CREATE TABLE prg\_litter(

litter\_id int identity,

number\_of\_kittens int NOT NULL,

CONSTRAINT PK\_prg\_litter PRIMARY KEY (litter\_id)

)

CREATE TABLE prg\_cat (

cat\_id int identity,

name varchar(15) NOT NULL,

pregnant\_status bit NOT NULL,

vaccine\_status bit NOT NULL,

adopter\_id int,

litter\_id int,

characteristic\_id int NOT NULL,

organization\_id int NOT NULL,

CONSTRAINT PK\_prg\_cat PRIMARY KEY (cat\_id),

CONSTRAINT FK1\_prg\_cat FOREIGN KEY (litter\_id) REFERENCES prg\_litter(litter\_id),

CONSTRAINT FK2\_prg\_cat FOREIGN KEY (adopter\_id) REFERENCES prg\_adopter(adopter\_id),

CONSTRAINT FK3\_prg\_cat FOREIGN KEY (characteristic\_id) REFERENCES prg\_characteristic(characteristic\_id),

CONSTRAINT FK4\_prg\_cat FOREIGN KEY (organization\_id) REFERENCES prg\_organization(organization\_id)

)

# Inserts:

INSERT INTO prg\_organization (address, email\_addresss, phone\_number, drop\_off\_date\_time)

VALUES ('58 Meadow Ridge Parkway', 'mchristensen0@ucoz.ru', 7819387, '3/2/2021 15:43')

INSERT INTO prg\_organization (address, email\_addresss, phone\_number, drop\_off\_date\_time)

VALUES ('7 Hagan Terrace', 'lbrookes1@ox.ac.uk', 5223860, '3/16/2021 17:22')

INSERT INTO prg\_organization (address, email\_addresss, phone\_number, drop\_off\_date\_time)

VALUES ('67 Karstens Street', 'ldyment2@rediff.com', 1273322, '5/10/2021 13:43')

INSERT INTO prg\_organization (address, email\_addresss, phone\_number, drop\_off\_date\_time)

VALUES ('595 Claremont Parkway', 'ndullingham3@nba.com', 8812147, '5/4/2021 18:34')

INSERT INTO prg\_organization (address, email\_addresss, phone\_number, drop\_off\_date\_time)

VALUES ('67 Atwood Trail', 'tservis4@alexa.com', 4257917, '3/1/2021 13:37')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Jacquetta Deverose', '8561 Meadow Valley Street', 'jdeverose0@java.com', 3184836, '7/1/2021 15:01')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Sidoney Blakiston', '3127 Myrtle Plaza', 'sblakiston1@g.co', 4580578, '7/28/2021 14:42')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Archer Plumer', '7 Lien Drive', 'aplumer2@flickr.com', 4794685, '7/9/2021 19:51')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Royall Dummett', '24660 Bluestem Way', 'rdummett3@sphinn.com', 8190845, '10/19/2021 17:06')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Adria Copper', '84 Pennsylvania Center', 'acopper4@chicagotribune.com', 5108824, '10/21/2021 14:58')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Ingaberg Abrahamsen', '6 Sheridan Terrace', 'iabrahamsen5@dropbox.com', 8138963, '8/7/2021 18:44')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Ardeen Seeger', '4640 Emmet Circle', 'aseeger6@a8.net', 4809742, '9/10/2021 13:25')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Chic Canton', '96759 Waxwing Place', 'ccanton@networkadvertising.org', 5476276, '10/13/2021 17:01')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Casi Franklen', '93084 Bartelt Point', 'cfranklen8@gizmodo.com', 6572465, '8/5/2021 18:22')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Pate Percival', '4167 Pierstorff Pass', 'ppercival9@discovery.com', 8938134, '7/29/2021 18:37')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Susi Pennazzi', '4 Messerschmidt Avenue', 'spennazzia@ox.ac.uk', 3273396, '7/27/2021 13:51')

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Devlen Thoresby', '00 Glendale Avenue', 'dthoresbyb@hatena.ne.jp', 7867290, '8/20/2021 15:21')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (1, 1.1, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (1, 1.3, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (1, 0.9, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (1, 1.2, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (1, 1.1, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 3.1, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 2.9, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 3.2, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 2.8, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 2.8, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (3, 2.9, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (4, 5.6, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (4, 5.8, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (4, 5.9, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (4, 6.1, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (4, 5.7, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (30, 12, 'British Shorthair', 'dark gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (36, 8, 'Siamese', 'light gray')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (32, 10, 'Tabby', 'orange')

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (34, 8, 'Calico', NULL)

INSERT INTO prg\_characteristic (age, weight, breed, color)

VALUES (38, 11, 'Ragdoll', 'white')

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Conn', 'TRUE', 3, 1)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Chantal', 'TRUE', 9, 2)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Zorine', 'TRUE', 6, 3)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Maynord', 'TRUE', NULL, 4)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Shalom', 'TRUE', NULL, 5)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Cris', 'FALSE', 1, 6)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Stearn', 'TRUE', 9, 7)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Lyndsie', 'TRUE', 12, 8)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Ranna', 'TRUE', NULL, 9)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Nickolas', 'FALSE', 2, 10)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Anatola', 'FALSE', 2, 11)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Ryley', 'TRUE', 8, 12)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Arabella', 'TRUE', 5, 13)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Cindy', 'FALSE', 8, 14)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Martainn', 'TRUE', 5, 15)

INSERT INTO prg\_kitten (name, vaccine\_status, adopter\_id, characteristic\_id)

VALUES ('Clotilda', 'TRUE', NULL, 16)

INSERT INTO prg\_litter (number\_of\_kittens)

VALUES (5)

INSERT INTO prg\_litter (number\_of\_kittens)

VALUES (6)

INSERT INTO prg\_litter (number\_of\_kittens)

VALUES (5)

INSERT INTO prg\_cat (name, pregnant\_status, vaccine\_status, adopter\_id, litter\_id, characteristic\_id, organization\_id)

VALUES ('Cristabel', 'FALSE', 'TRUE', 4, 1, 17, 1)

INSERT INTO prg\_cat (name, pregnant\_status, vaccine\_status, adopter\_id, litter\_id, characteristic\_id, organization\_id)

VALUES ('Leshia', 'FALSE', 'FALSE', 7, 2, 18, 2)

INSERT INTO prg\_cat (name, pregnant\_status, vaccine\_status, adopter\_id, litter\_id, characteristic\_id, organization\_id)

VALUES ('Maybelle', 'FALSE', 'FALSE', 11, NULL, 19, 3)

INSERT INTO prg\_cat (name, pregnant\_status, vaccine\_status, adopter\_id, litter\_id, characteristic\_id, organization\_id)

VALUES ('Millie', 'FALSE', 'TRUE', 10, 3, 23, 4)

INSERT INTO prg\_cat (name, pregnant\_status, vaccine\_status, adopter\_id, litter\_id, characteristic\_id, organization\_id)

VALUES ('Belicia', 'TRUE', 'TRUE', NULL, NULL, 21, 5)

# Views:

--Counts the total number of cats

CREATE OR ALTER VIEW CatCount AS

SELECT COUNT(cat\_id) as NumberOfCats from prg\_cat

GO

SELECT \* FROM CatCount

--Counts the total number of kittens

CREATE OR ALTER VIEW KittenCount AS

SELECT COUNT(kitten\_id) as NumberOfKittens from prg\_kitten

GO

SELECT \* FROM KittenCount

--Counts the number of vaccinated cats

CREATE OR ALTER VIEW CatVaccine AS

SELECT COUNT(vaccine\_status) AS NumberVacinate from prg\_cat

WHERE vaccine\_status = 'TRUE'

GO

SELECT \* FROM CatVaccine

--Counts the number of vaccinated kittens

CREATE OR ALTER VIEW KittenVaccine AS

SELECT COUNT(vaccine\_status) AS NumberVacinate from prg\_kitten

WHERE vaccine\_status = 'TRUE'

GO

SELECT \* FROM KittenVaccine

CREATE OR ALTER VIEW AvaliableCats AS

SELECT name FROM prg\_cat

WHERE prg\_cat.adopter\_id IS NULL

GO

SELECT \* FROM AvaliableCats

CREATE OR ALTER VIEW AvaliableKittens AS

SELECT name FROM prg\_kitten

WHERE prg\_kitten.adopter\_id IS NULL

GO

SELECT \* FROM AvaliableKittens

# Select Statements:

--cat names with owner name

SELECT

prg\_cat.name as CatName,

prg\_adopter.name as OwnerName

FROM prg\_adopter

RIGHT JOIN prg\_cat ON prg\_adopter.adopter\_id = prg\_cat.adopter\_id

WHERE prg\_cat.adopter\_id IS NOT NULL

--kitten names with owner name

SELECT

prg\_kitten.name as KittenName,

prg\_adopter.name as OwnerName

FROM prg\_adopter

RIGHT JOIN prg\_kitten ON prg\_adopter.adopter\_id = prg\_kitten.adopter\_id

WHERE prg\_kitten.adopter\_id IS NOT NULL

--Counts the number of breeds

SELECT

COUNT(DISTINCT breed) as Breeds

FROM prg\_characteristic

--Lists the names of the breeds with the Number of cats per breed

SELECT

DISTINCT breed as Breeds,

COUNT(breed) as NumBreeds

FROM prg\_characteristic

GROUP BY breed

--names of unvaccinated cats

SELECT

name

FROM prg\_cat

WHERE vaccine\_status = 'FALSE'

--names of unvaccinated kittens

SELECT

name

FROM prg\_kitten

WHERE vaccine\_status = 'FALSE'

# Updates and Delete Statements:

UPDATE prg\_kitten SET vaccine\_status = 'TRUE' WHERE name = 'Anatola'

SELECT \* FROM KittenVaccine

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Huberto Reardon', '2682 Bartelt Way', 'hreardon0@xrea.com', 1603245, '11/16/2021 15:58')

UPDATE prg\_kitten SET adopter\_id = 13 WHERE name = 'Maynord'

SELECT \* FROM AvaliableKittens

UPDATE prg\_cat SET vaccine\_status = 'TRUE' WHERE name = 'Maybelle'

SELECT \* FROM CatVaccine

INSERT INTO prg\_adopter (name, address, email\_addresss, phone\_number, pick\_up\_date\_time)

VALUES ('Martelle Ostler', '91 Loftsgordon Point', 'mostler0@mozilla.com', 7014644, '11/2/2021 18:45')

SELECT \* FROM prg\_adopter

DELETE prg\_adopter WHERE name = 'Martelle Ostler'