

```
1 CREATE DATABASE database_name
2 USE database_name
3
4
5 CREATE TABLE PET_TYPE
6 (PetTypeID INT IDENTITY(1,1) primary key not null,
7 PetTypeName varchar(15) not null)
8
9 CREATE TABLE COUNTRY
10 (CountryID INT IDENTITY(1,1) primary key not null,
11 CountryName varchar(15) not null)
12
13 CREATE TABLE TEMPERAMENT
14 (TempID INT IDENTITY(1,1) primary key not null,
15 TempName varchar(15) not null)
16
17 CREATE TABLE GENDER
18 (GenderID INT IDENTITY(1,1) primary key not null,
19 GenderName varchar(15) not null)
20
21 -- insert last because has foreign keys
22 CREATE TABLE PET
23 (PetID INT IDENTITY(1,1) primary key not null,
24 PetName varchar(15) not null,
25 PetTypeID INT FOREIGN KEY REFERENCES PET_TYPE (PetTypeID) not null,
26 CountryID INT FOREIGN KEY REFERENCES COUNTRY (CountryID) not null,
27 TempID INT FOREIGN KEY REFERENCES TEMPERAMENT (TempID) not null,
28 DOB DATE not null,
29 GenderID INT FOREIGN KEY REFERENCES GENDER (GenderID) not null)
30
31
32
33 INSERT INTO PET_TYPE
34 SELECT DISTINCT(PET_TYPE) FROM RawPetData
35 WHERE PET_TYPE IS NOT NULL
36
37 INSERT INTO COUNTRY
38 SELECT DISTINCT(COUNTRY) FROM RawPetData
39 WHERE COUNTRY IS NOT NULL
40
41 INSERT INTO TEMPERAMENT
42 SELECT DISTINCT(TEMPERAMENT) FROM RawPetData
43 WHERE TEMPERAMENT IS NOT NULL
44
45 INSERT INTO GENDER
46 SELECT DISTINCT(GENDER) FROM RawPetData
47 WHERE GENDER IS NOT NULL
48
49
50
51 USE database_name
52 GO
53
54 /***** Object: Table [dbo].[RawPetData] Script Date: 10/17/2017 8:04:26 PM ***/
55 SET ANSI_NULLS ON
56 GO
57
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58 SET QUOTED_IDENTIFIER ON
59 GO
60
61 CREATE TABLE [dbo].[RawPetData_PK] (
62     PK_ID INT IDENTITY(1,1) primary key not null,
63     [PETNAME] [nvarchar](255) NULL,
64     [PET_TYPE] [nvarchar](255) NULL,
65     [TEMPERAMENT] [nvarchar](255) NULL,
66     [COUNTRY] [nvarchar](255) NULL,
67     [DATE_BIRTH] [datetime] NULL,
68     [GENDER] [nvarchar](255) NULL
69 ) ON [PRIMARY]
70 GO
71
72
73 INSERT INTO RawPetData_PK(PETNAME, PET_TYPE, TEMPERAMENT, COUNTRY, DATE_BIRTH, GENDER)
74 SELECT PETNAME, PET_TYPE, TEMPERAMENT, COUNTRY, DATE_BIRTH, GENDER
75 FROM RawPetData
76
77
78 IF EXISTS (SELECT name FROM sys.objects WHERE name = 'working_pet')
79 BEGIN
80     DROP TABLE working_pet
81     PRINT 'deleting working_pet'
82     END
83     SELECT * INTO working_pet
84     FROM RawPetData_PK
85
86
87
88 -- insert data from working-pet into pet with right FKs
89 -- stored procs, get id from original database, given name from working_pet
90 -- build while loop that gets min value and decrements min value in while loop to go through working_pet
91 -- insert data into pet table from working table
92 -- get name from working data
93 GO
94 CREATE PROCEDURE uspGetPetTypeID
95 @PetTypeName varchar(15),
96 @PetTypeID INT OUTPUT
97 AS
98 SET @PetTypeID = (SELECT PetTypeID FROM PET_TYPE WHERE PetTypeName = @PetTypeName)
99
100 GO
101 CREATE PROCEDURE uspGetCountryID
102 @CountryName varchar(15),
103 @CountryID INT OUTPUT
104 AS
105 SET @CountryID = (SELECT CountryID FROM COUNTRY WHERE CountryName = @CountryName)
106

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107 GO
108 CREATE PROCEDURE uspGetTemperamentID
109 @TemperamentName varchar(15),
110 @TemperamentID INT OUTPUT
111 AS
112 SET @TemperamentID = (SELECT TempID FROM TEMPERAMENT WHERE TempName = @TemperamentName)
113
114 GO
115 CREATE PROCEDURE uspGetGenderID
116 @GenderName varchar(15),
117 @GenderID INT OUTPUT
118 AS
119 SET @GenderID = (SELECT GenderID FROM GENDER WHERE GenderName = @GenderName)
120
121
122
123 DECLARE @NumRows INT = (SELECT COUNT(*) FROM working_pet) -- number of rows in working table
124 DECLARE @MinPKID INT -- the PK of the current/min row
125 DECLARE @PetTName varchar(100) -- name of pet type in the row
126 DECLARE @CName varchar(100) -- name of the country in the row
127 DECLARE @TName varchar(100) -- name of the temperament in the row
128 DECLARE @GName varchar(100) -- name of the gender in the row
129 DECLARE @PetFKID INT -- pet type fk value gotten from uspGet__ that we insert into the pet table
130 DECLARE @CountryFKID INT -- country fk value gotten from uspGet__ that we insert into the pet table
131 DECLARE @TemperamentFKID INT -- country fk value gotten from uspGet__ that we insert into the pet table
132 DECLARE @GenderFKID INT -- gender fk value gotten from uspGet__ that we insert into the pet table
133 DECLARE @DOB DATE
134 DECLARE @PetName varchar(35)
135
136
137 WHILE @NumRows > 0
138 BEGIN
139     SET @MinPKID = (SELECT MIN(PK_ID) FROM working_pet)
140     SET @PetTName = (SELECT PET_TYPE FROM working_pet WHERE PK_ID = @MinPKID)
141     SET @CName = (SELECT COUNTRY FROM working_pet WHERE PK_ID = @MinPKID)
142     SET @TName = (SELECT TEMPERAMENT FROM working_pet WHERE PK_ID = @MinPKID)
143     SET @GName = (SELECT GENDER FROM working_pet WHERE PK_ID = @MinPKID)
144     SET @DOB = (SELECT DATE_BIRTH FROM working_pet WHERE PK_ID = @MinPKID)
145     SET @PetName = (SELECT PetName FROM working_pet WHERE PK_ID = @MinPKID)
146
147 EXEC uspGetPetTypeID
148     @PetTypeName = @PetTName,
149     @PetTypeID = @PetFKID OUTPUT
150

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151
152 EXEC uspGetCountryID
153     @CountryName = @CName,
154     @CountryID = @CountryFKID OUTPUT
155
156 EXEC uspGetTemperamentID
157     @TemperamentName = @TName,
158     @TemperamentID = @TemperamentFKID OUTPUT
159
160 EXEC uspGetGenderID
161     @GenderName = @GName,
162     @GenderID = @GenderFKID OUTPUT
163
164
165
166 INSERT INTO PET(PetName, PetTypeID, CountryID, TempID, DOB, GenderID)
167 VALUES (@PetName, @PetFKID, @CountryFKID, @TemperamentFKID, @DOB, @GenderFKID)
168
169
170 DELETE FROM working_pet
171 WHERE PK_ID = @MinPKID
172 SET @NumRows = @NumRows -1
173 END
174
175 GO
```