Project – SQL Statements

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# 1. Table Creation

## 1.1 City

CREATE TABLE CITY (

City\_ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,

City\_Name varchar(35)

);

## 1.2 User Type

CREATE TABLE USER\_TYPE (

User\_Type tinyint IDENTITY(1,1) NOT NULL PRIMARY KEY,

Type\_Description varchar(20)

);

## 1.3 Animal Type

CREATE TABLE ANIMAL\_TYPE (

Type\_Number int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Type\_Name varchar(35)

);

## 1.4 Users

CREATE TABLE USERS (

User\_Number int IDENTITY(1,1) NOT NULL,

User\_Type tinyint,

User\_Name varchar(35),

User\_Surname varchar(35),

CONSTRAINT PK\_USERS PRIMARY KEY (User\_Number),

CONSTRAINT FK\_USERS\_USER\_TYPE FOREIGN KEY (User\_Type) REFERENCES USER\_TYPE (User\_Type) ON DELETE SET NULL

);

## 1.5 Passwords

CREATE TABLE PASSWORDS (

User\_Number int NOT NULL,

Hash varchar(100),

Salt varchar(100),

CONSTRAINT PK\_PASSWORDS PRIMARY KEY (User\_Number),

CONSTRAINT FK\_PASSWORDS\_USER FOREIGN KEY (User\_Number) REFERENCES USERS (User\_Number) ON DELETE CASCADE

);

## 1.6 Adopter

CREATE TABLE ADOPTER (

Adopter\_Number int IDENTITY(1,1) NOT NULL,

Adopter\_Surname varchar(35),

Adopter\_Name varchar(35),

Adopter\_Contact\_Number char(10),

Adopter\_Street\_Number varchar(6),

Adopter\_Street\_Name varchar(50),

City\_ID int,

CONSTRAINT PK\_ADOPTER PRIMARY KEY (Adopter\_Number),

CONSTRAINT FK\_ADOPTER\_CITY FOREIGN KEY (City\_ID) REFERENCES CITY (City\_ID) ON DELETE SET NULL

);

## 1.7 Animal

CREATE TABLE ANIMAL (

Animal\_Number int IDENTITY(1,1) NOT NULL,

Animal\_Name varchar(35),

Type\_Number int,

Add\_Date date,

CONSTRAINT PK\_ANIMAL PRIMARY KEY (Animal\_Number),

CONSTRAINT FK\_ANIMAL\_ANIMAL\_TYPE FOREIGN KEY (Type\_Number) REFERENCES ANIMAL\_TYPE (Type\_Number) ON DELETE SET NULL

);

## 1.8 Adoption

CREATE TABLE ADOPTION (

Adoption\_Number int IDENTITY(1,1) NOT NULL,

Adopter\_Number int,

Animal\_Number int,

User\_Number int,

Result\_Description varchar(10),

Adoption\_Date date,

CONSTRAINT PK\_ADOPTION PRIMARY KEY (Adoption\_Number),

CONSTRAINT FK\_ADOPTION\_ADOPTER FOREIGN KEY (Adopter\_Number) REFERENCES ADOPTER (Adopter\_Number) ON DELETE CASCADE,

CONSTRAINT FK\_ADOPTION\_ANIMAL FOREIGN KEY (Animal\_Number) REFERENCES ANIMAL (Animal\_Number) ON DELETE CASCADE,

CONSTRAINT FK\_ADOPTION\_USERS FOREIGN KEY (User\_Number) REFERENCES USERS (User\_Number)

);

# 2. SELECT Queries

**User authentication**

SELECT USERS.User\_Name, PASSWORDS.Hash, PASSWORDS.Salt

FROM USERS

INNER JOIN PASSWORDS ON USERS.User\_Number = PASSWORDS.User\_Number

WHERE USERS.User\_Name = @userName;

**Fill combobox**

SELECT column

FROM table;

**Fill ListBox**

SELECT column

FROM table

ORDER BY column ASC;