Tutorial 6 Solutions

Exercise 1:

```
CREATE DATABASE ZooDB;
```

Exercise 2:

```
USE ZooDB;
CREATE TABLE Zookeeper (
    KeeperID INT IDENTITY(101, 1) PRIMARY KEY,
    LastName VARCHAR(50) NOT NULL,
    FirstName VARCHAR(50) NULL,
    HireDate DATE NOT NULL
);
```

Exercise 3:

```
USE ZooDB;
CREATE TABLE Animal (
    AnimalID INT PRIMARY KEY,
    Species VARCHAR(100) NOT NULL,
    AnimalName VARCHAR(50) NULL,
    DateOfBirth DATE NULL,
    KeeperID INT,
    WeightKG DECIMAL(5, 2),
    EntryDate DATE DEFAULT GETDATE(),
    CONSTRAINT CK_Animal_PositiveWeight CHECK (WeightKG > 0),
    CONSTRAINT FK_Animal_Keeper FOREIGN KEY (KeeperID)
        REFERENCES Zookeeper(KeeperID)
);
```

Exercise 4:

```
USE ZooDB;
ALTER TABLE Animal
ADD CONSTRAINT UQ_Animal_SpeciesName UNIQUE (Species, AnimalName);
```

Exercise 5:

```
USE ZooDB;
ALTER TABLE Zookeeper
```

```
ALTER COLUMN FirstName VARCHAR(50) NOT NULL;
```

Exercise 6:

```
USE ZooDB;
ALTER TABLE Zookeeper
ALTER COLUMN LastName VARCHAR(100) NOT NULL;
```

Exercise 7:

```
USE ZooDB;
ALTER TABLE Animal
DROP COLUMN DateOfBirth;
```

Exercise 8:

```
USE ZooDB;
ALTER TABLE Animal
DROP CONSTRAINT CK_Animal_PositiveWeight;
```

Exercise 9:

```
USE ZooDB;
DROP TABLE Animal;
```