CREATE TABLE tb\_usuario(

id\_usuario INTEGER,

nome TEXT

CONSTRAINT nn\_usuario\_nome NOT NULL

CONSTRAINT ck\_usuario\_nome

CHECK(length(nome) <= 60)

CONSTRAINT un\_usuario\_nome UNIQUE,

data\_nasc TEXT,

genero TEXT

CONSTRAINT ck\_usuario\_genero

CHECK(genero="m" OR genero="f" OR genero="o"),

CONSTRAINT pk\_usuario\_id\_usuario PRIMARY KEY(id\_usuario)

);

CREATE TRIGGER trig\_tb\_usuario\_insert\_BEFORE

BEFORE INSERT ON tb\_usuario

FOR EACH ROW

WHEN dateTime(NEW.data\_nasc, "localtime") <

dateTime("now", "-130 years", "localtime")

BEGIN

SELECT RAISE(ROLLBACK, "data de nascimento invalida");

END;

CREATE TRIGGER trig\_tb\_usuario\_update\_BEFORE

BEFORE UPDATE ON tb\_usuario

FOR EACH ROW

WHEN dateTime(NOW.data\_nasc, "localtime") <

dateTime("now", "-130 years", "localtime")

BEGIN

SELECT RAISE(ROLLBACK, "data de nascimento invalida");

END;

CREATE TABLE tb\_animal (

id\_animal INTEGER,

id\_usuario INTEGER,

id\_raca INTEGER,

nome TEXT

CONSTRAINT nn\_animal\_nome NOT NULL

CONSTRAINT ck\_animal\_nome

CHECK(length(nome) <= 60),

ano\_nasc INTEGER

CONSTRAINT ck\_animal\_ano\_nasc

CHECK(length(ano\_nasc) = 4),

sexo TEXT

CONSTRAINT nn\_animal\_sexo NOT NULL

CONSTRAINT ck\_animal\_sexo

CHECK(sexo="m" OR sexo="f" OR sexo="n"),

problemas\_saude TEXT,

peso REAL

CONSTRAINT ck\_animal\_peso

CHECK(peso >= 0.001 AND peso <= 200),

altura INTEGER

CONSTRAINT ck\_animal\_altura

CHECK(altura >= 1 AND altura <= 300),

CONSTRAINT pk\_animal\_id\_animal PRIMARY KEY(id\_animal),

CONSTRAINT fk\_animal\_id\_usuario FOREIGN KEY(id\_usuario)

REFERENCES tb\_usuario(id\_usuario),

CONSTRAINT fk\_animal\_id\_raca FOREIGN KEY(id\_raca)

REFERENCES tb\_raca(id\_raca)

);

CREATE TRIGGER trig\_tb\_animal\_insert\_BEFORE

BEFORE INSERT ON tb\_animal

FOR EACH ROW

WHEN CAST(strftime('%Y', 'now', 'localtime') as integer) - NEW.ano\_nasc > 30

BEGIN

SELECT RAISE(ROLLBACK, "ano de nascimento invalido");

END;

CREATE TRIGGER trig\_tb\_animal\_update\_BEFORE

BEFORE UPDATE ON tb\_animal

FOR EACH ROW

WHEN CAST(strftime('%Y', 'now', 'localtime') as integer) - NEW.ano\_nasc > 30

BEGIN

SELECT RAISE(ROLLBACK, "ano de nascimento invalido");

END;

CREATE TABLE tb\_coleira (

id\_coleira TEXT

CONSTRAINT nn\_coleira\_id\_coleira NOT NULL

CONSTRAINT ck\_coleira\_id\_coleira

CHECK(length(id\_coleira) = 5),

id\_animal INTEGER,

descricao TEXT

CONSTRAINT ck\_coleira\_descricao

CHECK (descricao LIKE "coleira % conectada ao animal % em %"),

data\_animal TEXT,

CONSTRAINT pk\_coleira\_id\_coleira PRIMARY KEY(id\_coleira),

CONSTRAINT fk\_coleira\_id\_animal FOREIGN KEY(id\_animal)

REFERENCES tb\_animal(id\_animal)

);

CREATE TABLE tb\_raca(

id\_raca INTEGER,

nome TEXT

CONSTRAINT nn\_raca\_nome NOT NULL

CONSTRAINT ck\_raca\_nome

CHECK(length(nome) <= 40),

tipo TEXT

CONSTRAINT nn\_raca\_tipo NOT NULL

CONSTRAINT ck\_raca\_tipo

CHECK(tipo = "g" OR tipo = "c"),

CONSTRAINT pk\_raca\_id\_raca PRIMARY KEY(id\_raca)

);

CREATE TABLE tb\_afericao(

id\_afericao INTEGER,

id\_animal INTEGER,

saturacao\_ox INTEGER

CONSTRAINT nn\_afericao\_saturacao\_ox NOT NULL

CONSTRAINT ck\_afericao\_saturacao\_ox

CHECK(saturacao\_ox >= 1 AND saturacao\_ox <= 100),

bpm INTEGER

CONSTRAINT nn\_afericao\_bpm NOT NULL

CONSTRAINT ck\_afericao\_bpm

CHECK(BPM >= 1 AND BPM <= 250),

data\_horario TEXT

CONSTRAINT nn\_afericao\_data\_horario not NULL,

CONSTRAINT pk\_afericao\_id\_afericao PRIMARY KEY(id\_afericao),

CONSTRAINT fk\_afericao\_id\_animal FOREIGN KEY(id\_animal)

REFERENCES tb\_animal(id\_animal)

);