CREATE TABLE Ordre (

id\_order INT NOT NULL,

name VARCHAR(50) NOT NULL,

PRIMARY KEY (id\_order),

UNIQUE (id\_order),

UNIQUE (name)

);

CREATE TABLE Family (

id\_family INT NOT NULL,

name VARCHAR(50) NOT NULL,

PRIMARY KEY (id\_family),

UNIQUE (id\_family),

UNIQUE (name)

);

CREATE TABLE subFamily (

id\_subfamily INT NOT NULL,

name VARCHAR(50) NOT NULL,

PRIMARY KEY (id\_subfamily),

UNIQUE (id\_subfamily),

UNIQUE (name)

);

CREATE TABLE Scientific (

id\_sc INT NOT NULL,

name VARCHAR(50) NOT NULL,

PRIMARY KEY (id\_sc),

UNIQUE (id\_sc)

);

CREATE TABLE Genus (

id\_genus INT NOT NULL,

name VARCHAR(50) NOT NULL,

id\_sc INT,

date DATE,

PRIMARY KEY (id\_genus),

UNIQUE (id\_genus),

UNIQUE (name),

FOREIGN KEY(id\_sc) REFERENCES Scientific(id\_sc)

)

CREATE TABLE subGenus (

id\_subgenus INT NOT NULL,

name VARCHAR(50) NOT NULL,

id\_sc INT,

date DATE,

PRIMARY KEY (id\_subgenus),

UNIQUE (id\_subgenus),

UNIQUE (name),

FOREIGN KEY(id\_sc) REFERENCES Scientific(id\_sc)

);

CREATE TABLE Species (

id\_species INT NOT NULL,

name VARCHAR(50) NOT NULL,

id\_sc INT,

date DATE,

PRIMARY KEY (id\_species),

UNIQUE (id\_species),

UNIQUE (name),

FOREIGN KEY(id\_sc) REFERENCES Scientific(id\_sc)

);

CREATE TABLE subSpecies (

id\_subspecies INT NOT NULL,

name VARCHAR(50) NOT NULL,

id\_sc INT,

date DATE,

PRIMARY KEY (id\_subspecies),

UNIQUE (id\_subspecies),

UNIQUE (name),

FOREIGN KEY(id\_sc) REFERENCES Scientific(id\_sc)

)

CREATE TABLE Population (

id\_population INT NOT NULL,

order\_id INT NOT NULL,

family\_id INT,

subFamily\_id INT,

genus\_id INT,

subGenus\_id INT,

species\_id INT,

subSpecies\_id INT,

PRIMARY KEY (id\_population),

UNIQUE (id\_population),

FOREIGN KEY(order\_id) REFERENCES Ordre(id\_order),

FOREIGN KEY(family\_id) REFERENCES Family(id\_family),

FOREIGN KEY(subFamily\_id) REFERENCES subFamily(id\_subFamily),

FOREIGN KEY(genus\_id) REFERENCES Genus(id\_genus),

FOREIGN KEY(subGenus\_id) REFERENCES subGenus(id\_subGenus),

FOREIGN KEY(species\_id) REFERENCES Species(id\_species),

FOREIGN KEY(subSpecies\_id) REFERENCES subSpecies(id\_subSpecies)

) ;

CREATE TABLE Collection (

id\_collection INT NOT NULL,

name VARCHAR(50) NOT NULL,

UNIQUE(id\_collection),

PRIMARY KEY (id\_collection)

);

CREATE TABLE SpeciesRange (

id\_speciesrange INT NOT NULL,

range\_begin VARCHAR(5) NOT NULL,

range\_end VARCHAR(5) NOT NULL,

UNIQUE(id\_speciesrange),

PRIMARY KEY (id\_speciesrange)

);

CREATE TABLE GenusRange (

id\_genusrange INT NOT NULL,

range\_begin VARCHAR(5) NOT NULL,

range\_end VARCHAR(5) NOT NULL,

UNIQUE(id\_genusrange),

PRIMARY KEY (id\_genusrange)

);

CREATE TABLE Box (

id\_box INT NOT NULL,

population\_id INT NOT NULL,

location VARCHAR(50),

speciesrange\_id INT,

genusrange\_id INT,

museum VARCHAR(50),

paratypes INT,

types INT,

UNIQUE(id\_box),

PRIMARY KEY (id\_box),

FOREIGN KEY (population\_id) REFERENCES Population(id\_population),

FOREIGN KEY (speciesrange\_id) REFERENCES SpeciesRange(id\_speciesrange),

FOREIGN KEY (genusrange\_id) REFERENCES GenusRange(id\_genusrange)

);

CREATE TABLE CollectionBox (

collection\_id INT NOT NULL,

box\_id INT NOT NULL,

PRIMARY KEY(collection\_id, box\_id),

CONSTRAINT UC\_CollectionBox UNIQUE (collection\_id, box\_id)

)

CREATE TABLE Individu (

id\_individu INT NOT NULL,

box\_id INT NOT NULL,

population\_id INT NOT NULL,

continent VARCHAR(50),

country VARCHAR(50),

ecozone VARCHAR(50),

UNIQUE (id\_individu),

PRIMARY KEY (id\_individu),

FOREIGN KEY (box\_id) REFERENCES Box(id\_box),

FOREIGN KEY (population\_id) REFERENCES Population(id\_population)

);

CREATE TABLE Loaner (

id\_loaner INT NOT NULL,

name VARCHAR(50) NOT NULL,

mail VARCHAR(100),

phone VARCHAR(25),

UNIQUE (id\_loaner),

UNIQUE (mail),

UNIQUE (phone),

PRIMARY KEY (id\_loaner)

);

CREATE TABLE loanBox (

loaner\_id INT NOT NULL,

box\_id INT NOT NULL,

begin\_date DATE NOT NULL,

end\_date DATE NOT NULL,

UNIQUE(loaner\_id),

PRIMARY KEY(loaner\_id,box\_id, begin\_date, end\_date),

FOREIGN KEY (loaner\_id) REFERENCES Loaner(id\_loaner),

FOREIGN KEY (box\_id) REFERENCES Box(id\_box),

CONSTRAINT UC\_loanBox UNIQUE (loaner\_id,box\_id, begin\_date, end\_date)

) ;

CREATE TABLE loanIndividu (

loaner\_id INT NOT NULL,

individu\_id INT NOT NULL,

begin\_date DATE NOT NULL,

end\_date DATE NOT NULL,

UNIQUE(loaner\_id),

PRIMARY KEY(loaner\_id,individu\_id, begin\_date, end\_date),

FOREIGN KEY (loaner\_id) REFERENCES Loaner(id\_loaner),

FOREIGN KEY (individu\_id) REFERENCES Individu(id\_individu),

CONSTRAINT UC\_loanBox UNIQUE (loaner\_id,individu\_id, begin\_date, end\_date)

) ;