CREATE TABLE Item(

CopyID VARCHAR(10) NOT NULL,

Condition VARCHAR(10) NOT NULL,

Location VARCHAR(10) NOT NULL,

CONSTRAINT Item\_pk PRIMARY KEY (CopyID)

);

CREATE TABLE Book(

CopyID VARCHAR(10) NOT NULL,

ISBN VARCHAR(10) NOT NULL,

Author VARCHAR(20) NOT NULL,

Genre VARCHAR(10) NOT NULL,

CONSTRAINT Book\_pk PRIMARY KEY (CopyID),

CONSTRAINT Book\_fk FOREIGN KEY (CopyID) REFERENCES Item(CopyID)

);

CREATE TABLE Journal(

CopyID VARCHAR(10) NOT NULL,

ISSN VARCHAR(10) NOT NULL,

Volume INT NOT NULL,

Issue\_date DATE NOT NULL,

CONSTRAINT Journal\_pk PRIMARY KEY (CopyID),

CONSTRAINT Journal\_fk FOREIGN KEY (CopyID) REFERENCES Item(CopyID)

);

CREATE TABLE Digital\_Media(

CopyID VARCHAR(10) NOT NULL,

Format VARCHAR(10) NOT NULL,

Size INT NOT NULL,

CONSTRAINT Digital\_Media\_pk PRIMARY KEY (CopyID),

CONSTRAINT Digital\_Media\_fk FOREIGN KEY (CopyID) REFERENCES Item(CopyID)

);

CREATE TABLE Customer(

CID VARCHAR(10) NOT NULL,

C\_name VARCHAR(10) NOT NULL,

C\_email VARCHAR(20) NOT NULL,

CONSTRAINT Customer\_pk PRIMARY KEY (CID)

);

CREATE TABLE Student(

CID VARCHAR(10) NOT NULL,

Major VARCHAR(20) NOT NULL,

YOS INT NOT NULL,

CONSTRAINT Student\_pk PRIMARY KEY (CID),

CONSTRAINT Student\_fk FOREIGN KEY (CID) REFERENCES Customer(CID)

);

CREATE TABLE Faculty\_Member(

CID VARCHAR(10) NOT NULL,

Department VARCHAR(20) NOT NULL,

Title VARCHAR(20) NOT NULL,

CONSTRAINT Faculty\_Member\_pk PRIMARY KEY (CID),

CONSTRAINT Faculty\_Member\_fk FOREIGN KEY (CID) REFERENCES Customer(CID)

);

CREATE TABLE Staff(

CID VARCHAR(10) NOT NULL,

Designation VARCHAR(10) NOT NULL,

Office VARCHAR(20) NOT NULL,

CONSTRAINT Staff\_pk PRIMARY KEY (CID),

CONSTRAINT Staff\_fk FOREIGN KEY (CID) REFERENCES Customer(CID)

);

CREATE TABLE Customer\_Tel(

CID VARCHAR(10) NOT NULL,

Tel\_no VARCHAR(10) NOT NULL,

CONSTRAINT Customer\_Tel\_pk PRIMARY KEY (CID,Tel\_no),

CONSTRAINT Customer\_Tel\_fk FOREIGN KEY (CID) REFERENCES Customer(CID)

);

CREATE TABLE Reserve(

CID VARCHAR(10) NOT NULL,

CopyID VARCHAR(10) NOT NULL,

Reserve\_Date DATE NOT NULL,

CONSTRAINT Reserve\_pk PRIMARY KEY (CID,CopyID),

CONSTRAINT Reserve\_fk1 FOREIGN KEY (CID) REFERENCES Customer(CID),

CONSTRAINT Reserve\_fk2 FOREIGN KEY (CopyID) REFERENCES Item(CopyID)

);

CREATE TABLE Borrow\_Details(

BID VARCHAR(10) NOT NULL,

Borrow\_Date DATE NOT NULL,

Return\_Date DATE NOT NULL,

CID VARCHAR(10) NOT NULL,

CONSTRAINT Borrow\_Details\_pk PRIMARY KEY (BID),

CONSTRAINT Borrow\_Details\_fk FOREIGN KEY (CID) REFERENCES Customer(CID)

);

CREATE TABLE Borrow(

BID VARCHAR(10) NOT NULL,

CID VARCHAR(10) NOT NULL,

CopyID VARCHAR(10) NOT NULL,

CONSTRAINT Borrow\_pk PRIMARY KEY (BID,CID,CopyID),

CONSTRAINT Borrow\_fk1 FOREIGN KEY (CID) REFERENCES Customer(CID),

CONSTRAINT Borrow\_fk2 FOREIGN KEY (CopyID) REFERENCES Item(CopyID),

CONSTRAINT Borrow\_fk3 FOREIGN KEY (BID) REFERENCES Borrow\_Details(BID)

);

CREATE TABLE Fine(

FID VARCHAR(10) NOT NULL,

Amount INT NOT NULL,

CONSTRAINT Fine\_pk PRIMARY KEY (FID)

);

CREATE TABLE Levied(

FID VARCHAR(10) NOT NULL,

BID VARCHAR(10) NOT NULL,

CONSTRAINT Levied\_pk PRIMARY KEY (FID,BID),

CONSTRAINT Levied\_fk1 FOREIGN KEY (BID) REFERENCES Borrow\_Details(BID),

CONSTRAINT Levied\_fk2 FOREIGN KEY (FID) REFERENCES Fine(FID)

);