CREATE TABLE USER(

USERNAME varchar(50) NOT NULL,

PASSWORD varchar(50) NOT NULL,

IS\_STAFF boolean NOT NULL,

PRIMARY KEY (USERNAME)

);

CREATE TABLE STAFF (

USERNAME varchar(50) NOT NULL,

PASSWORD varchar(50) NOT NULL,

PRIMARY KEY (USERNAME),

FOREIGN KEY (USERNAME) REFERENCES USER(USERNAME)

) ENGINE=InnoDB;

CREATE TABLE REGULARUSER (

USERNAME varchar(50) NOT NULL,

PASSWORD varchar(50) NOT NULL,

NAME varchar(50),

DATE\_OF\_BIRTH date,

GENDER char(1),

IS\_DEBARRED boolean,

EMAIL varchar(50),

ADDRESS varchar(100),

IS\_FACULTY boolean,

PENALTY decimal(10,2) DEFAULT '0.00',

DEPT varchar(50),

PRIMARY KEY (USERNAME),

FOREIGN KEY (USERNAME) REFERENCES USER(USERNAME)

) ENGINE=InnoDB;

CREATE TABLE FLOOR (

FLOOR\_NUM int NOT NULL,

NUM\_STUD\_ASSIST int,

NUM\_OF\_COPIERS int,

PRIMARY KEY(FLOOR\_NUM)

);

CREATE TABLE SUBJECT (

SUBJECT\_NAME varchar(50) NOT NULL,

NUM\_JOURNALS int,

FLOOR\_NUM int NOT NULL,

PRIMARY KEY(SUBJECT\_NAME),

FOREIGN KEY(FLOOR\_NUM) REFERENCES FLOOR(FLOOR\_NUM)

) ENGINE=InnoDB;

CREATE TABLE SHELF (

SHELF\_NUM int NOT NULL,

AISLE\_NUM int NOT NULL,

FLOOR\_NUM int NOT NULL,

PRIMARY KEY(SHELF\_NUM),

FOREIGN KEY(FLOOR\_NUM) REFERENCES FLOOR(FLOOR\_NUM)

) ENGINE=InnoDB;

CREATE TABLE BOOK (

TITLE varchar(50) NOT NULL,

ISBN char(10) NOT NULL,

COST decimal(10,2) NOT NULL,

IS\_BOOK\_ON\_RESERVE boolean NOT NULL,

EDITION int NOT NULL,

PUBLISHER varchar(50) NOT NULL,

PLACE\_OF\_PUBLIC varchar(100) NOT NULL,

COPYRIGHT\_YEAR int NOT NULL,

SHELF\_NUM int NOT NULL,

SUBJECT\_NAME varchar(50) NOT NULL,

PRIMARY KEY(ISBN),

FOREIGN KEY(SHELF\_NUM) REFERENCES SHELF(SHELF\_NUM),

FOREIGN KEY(SUBJECT\_NAME) REFERENCES SUBJECT(SUBJECT\_NAME)

) ENGINE=InnoDB;

CREATE TABLE BOOK\_COPY (

ISBN char(10) NOT NULL,

COPY\_NUM int NOT NULL,

IS\_ON\_HOLD boolean NOT NULL,

IS\_CHECKED\_OUT boolean NOT NULL,

IS\_DAMAGED boolean NOT NULL,

FUTURE\_REQUESTER varchar(50),

PRIMARY KEY(ISBN, COPY\_NUM),

FOREIGN KEY(ISBN) REFERENCES BOOK(ISBN),

FOREIGN KEY(FUTURE\_REQUESTER) REFERENCES REGULARUSER(USERNAME)

) ENGINE=InnoDB;

CREATE TABLE ISSUES (

ISSUES\_ID int NOT NULL,

USERNAME varchar(50) NOT NULL,

ISBN char(10) NOT NULL,

COPY\_NUM int NOT NULL,

DATE\_OF\_ISSUES date NOT NULL,

EXTENSION\_DATE date NOT NULL,

RETURN\_DATE date NOT NULL,

COUNT\_OF\_EXTENSIONS int NOT NULL,

PRIMARY KEY (ISSUES\_ID),

FOREIGN KEY (USERNAME) REFERENCES REGULARUSER(USERNAME),

FOREIGN KEY (ISBN, COPY\_NUM) REFERENCES BOOK\_COPY(ISBN, COPY\_NUM)

) ENGINE=InnoDB;

CREATE TABLE KEYWORDS (

NAME varchar(50) NOT NULL,

KEYWORDS varchar(50) NOT NULL,

PRIMARY KEY(NAME, KEYWORDS),

FOREIGN KEY(NAME) REFERENCES SUBJECT(SUBJECT\_NAME)

) ENGINE=InnoDB;

CREATE TABLE AUTHORS (

ISBN char(10) NOT NULL,

AUTHORS char(50) NOT NULL,

PRIMARY KEY(ISBN, AUTHORS),

FOREIGN KEY(ISBN) REFERENCES BOOK(ISBN)

) ENGINE=InnoDB;