Guiquan Liu

Part 1

Create table Airline\_Company( Name varchar(20) , address varchar(50) , telephone varchar(15), Type

Primary key (Name)

);

Create Airplane\_Pass (Number int not null auto\_increment, weight int(100000) , seatNum int(1000) , maxPeoNum int(1000)

Primary key (ID)

)

Create Airplane\_Cargo (Number int not null auto\_increment , weight int(100000) , maxWeightCarry int(1000)

Primary key (ID)

)

Create gate (gateNo int not null auto\_increment, terminalNo int(100) , fee int(100)

Primary key (gateNo)

)

Create Runway ( length int(100),type varchar(10)

Primary key (ID)

)

Create hangar (Number int not null auto\_increment, Area int(1000) , DoorSize int(100), Max\_plane int(100)

Primary key (ID)

)

Create rent\_gate ( Airplane\_Name varchar(40) , gateNo int not null

Foreign key (Airplane\_ID) references Airplane\_Pass(Name)

Foreign key (gateNo) references gate(Number)

)

Create land(Airplane\_ID int not null , RunwayPass\_ID int not null

Foreign key (Airplane\_ID) references Airplane\_Pass(ID)

Foreign key (RunwayPass\_ID) references Runway\_Pass(ID)

)

Create rent\_hangar (Airplane\_Name varchar(40) , hangar\_Number int not null

Foreign key (Airplane\_ID) references Airplane\_Cargo(Number)

Foreign key (hangar\_ID) references hangar(ID)

)

Part 2

Create instructor (ID int not null auto\_increment , FirstName varchar(15), LastName varchar (15) , SSN varchar(10) , Birthday varchar(10), Email varchar(15), Phone int (11)

Primary key (ID))

Create Activity\_cardio (ID int not null auto\_increment , name varchar(15), level int(10), tools varchar(15)

Primary key (ID))

Create members (ID int not null auto\_increment, Reg\_Num varchar (20), Name varchar(15), Type varchar (5), MemValidPeriod TIMESTAMP NOT NULL

Primary key(ID))

Create Room (ID int not null auto\_increment, name varchar(15), measure int(10)

Primary key (ID))

Create locker(ID int not null auto\_increment, OwnerID int (1000) , type varchar (10), startDate (date), endDate(date)

Primary key (ID))

Create price (ID int not null auto\_increment, fee int(100)

Primary key(ID))

Create Time (History\_id int not null auto\_increment , Time\_in varchar(10), Time\_out varchar(10)

Primary key (History\_id))

Create teach ( instructor\_ID int not null, mem\_ID int not null

Foreign key (instructor\_ID) references instructor (ID)

Foreign key (mem\_ID) references Activity\_cardio (mem\_ID))

Create Schedule (mem\_ID int not null , Activity\_ID int not null

Foreign key (mem\_ID) references Memebers (ID)

Foreign key (Activity\_ID) references Activity\_cardio (ID))

Create located (Activity\_ID int not null, Room\_ID int not null

Foreign key (Activity\_ID) references Activity\_cardio (ID)

Foreign key (Room\_ID) references Room (ID))

Create cost (locker\_ID int not null, price\_ID int not null

Foreign key (locker\_ID) references locker(ID)

Foreign key (price\_ID) references price(ID)

)