**Everything’s been split up. Everyone do one section from ER and SQL please!**

**ER diagram Mapping:**

Review isa

Evaluates

Room isa

==================================

Has(

Room\_no: int,

HotelID: int,

Price: int,

Capacity: int,

Floor\_no: int,

Description: varchar(200),

Type: varchar(10),

primary key(Room\_no),

foreign key (Room\_no) references Room,

foreign key (HotelID) references Hotel);

Assess(

ReviewID: int,

bType: varchar(10),

primary key (ReviewID),

foreign key (ReviewID) references BreakfastReview,

foreign key (bType) references Breakfast);

Reserves(

Room\_no: int,

InvoiceNo: int,

NoOfDays: int,

InDate: varchar(20),

OutDate: varchar(20),

primary key (Room\_no, InvoiceNo),

foreign key (Room\_no) references Room,

foreign key (InvoiceNo) references Reservation);

==================================

Offers(

HotelID: int,

bType: varchar(10),

Primary key(HotelID, bType),

Foreign key(HotelID) references Hotel(HotelID),

Foreign key(bType) references Breakfast(bType)

)

Provides(

HotelID: int,

sType: varchar(10),

Primary key(HotelID, sType),

Foreign key(HotelID) references Hotel(HotelID)

Foreign key(sType) references Service(sType)

)

Includes(

InvoiceNo: int,

bType: varchar(30),

HotelID: int,

Primary key(HotelID, bType, InvoiceNo),

Foreign key(HotelID, bType) references Offers(HotelID, bType)

Foreign key(InvoiceNo) references Reservation(InvoiceNo)

)

Contains(

InvoiceNo: int,

sType: varchar(30),

HotelID: int,

Primary key(HotelID, sType, InvoiceNo),

Foreign key(HotelID, sType) references Provides(HotelID, sType)

Foreign key(InvoiceNo) references Reservation(InvoiceNo)

}

==================================

Makes

Rates

writes

**SQL:**

Create database HotelReservationSystem;

=========================SRI============================

Create table Hotel(

HotelID: int,

Phone: varchar(10),

/\*IDK how to do attribute that has attributes for Location\*/

Primary key (HotelID)

);

Create table Reservation(

InvoiceNo: int,

ResDate: date,

TotalAmt: float,

Primary key(InvoiceNo)

);

Create table Room(

Room\_no: int,

Price: float,

Capacity: int,

Floor\_no: int,

Description: varchar(100),

Type: varchar(15),

HotelID: int,

Primary key(HotelID, room\_no),

Foreign key(HotelID) references Hotel(HotelID)

);

==================================

Create table Offer-Room(

Room\_no: int,

Price: int,

Capacity: int,

Floor\_no: int,

Description: varchar(200),

Type: varchar(10),

SDate: varchar(20),

EDate: varchar(20),

Discount: varchar(5),

primary key (Room\_no),

foreign key (Room\_no) references Room on delete cascade);

Create table Breakfast(

bType: varchar(10),

Description: varchar(200),

bPrice: int,

primary key (bType));

Create table Service(

sType: varchar(10),

sCost: int,

primary key (sType));

==================================

Create table Review();

Create table RoomReview();

Create table BreakfastReview();

==================================

Create table ServiceReview(

ReviewID: int,

Rating: int,

Text Comment: varchar(200),

primary key (ReviewID),

foreign key (ReviewID) references Review on delete cascade

);

Create Customer(

CID: Int,

Email: varchar(40),

Address: varchar(100),

Phone\_No: varchar(14),

Name: varchar(30),

Primary key(CID)

);

Create table CreditCard(

);