Group\_14\_deliverable\_2

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**Schema**

CreditCard(ExpDate: date, Type: varchar(20), SecCode: char(6), Name: varchar(40), BillingAddr: char(30), Cnumber: char(16) primary key)

Customer(CID: char(10) primary key, Email: char(30), Address: char(30), Phone\_no: char(10), Name: varchar(40))

Reservation\_makes(InvoiceNo: char(10), ResDate: date, TotalAmt: real, CID: char(10), Cnumber: char(16), InvoiceNo: char(10), primary key(InvoiceNo), foreign key(CID) references customers, foreign key(Cnumber) references CreditCard)

Hotel(HotelID: char(10) primary key, street: char(20), City: char(20), State: char(10), Country: char(20), ZIP: char (5))

Hotel\_Phone\_No(HotelID: char(10), Phone\_no: char(10), primary key(HotelID, Phone\_no), foreign key(HotelID) references Hotel)

RoomOfferRoom(HotelID: char(10),Room\_no: int, Price: real, Capacity: int, Floor\_no: int, Description: char(500), Type: char(20), isOffer\_room: boolean, sDate: date, EDate: date, Discount: real, primary key(HotelID, Room\_no), foreign key(HotelID) references Hotel)

reserves(HotelID: char(10),Room\_no: int, InvoiceNo: char(10),OutDate: date, InDate: date, NoOfDays: int, primary key(HotelID, Room\_no, InvoiceNo), foreign key(HotelID) references Hotel, foreign key(InvoiceNo) references Reservation\_makes)

BreakfastOffers(HotelID char(10), bType: char(20), description: char(500), bPrice: real, primary key(HotelID, bType), foreign key(HotelID) references Hotel)

ServiceProvides(HotelIDL char(10), sType: char(20) primary key, sCost: real, primary key(HotelID, sType), foreign key(HotelID) references Hotel)

ReviewRoomReviewBreakfastReviewServiceReview(ReviewID: char(10) primary key, Rating: int, TextComment: char(500), isRoomReview: boolean, isBreakfastReview: boolean, isServiceReview: boolean)

evaluates(ReviewID: char(10), HotelID: char(10),Room\_no: int, primary key(ReviewID, HotelID, Room\_no), foreign key(ReviewID) references Review, foreign key(HotelID, Room\_no) references Room)

assesses(primary key(HotelID, bType, ReviewID), foreign key(HotelID, bType) references Breakfast, foreign key(ReviewID) references Review)

rates(primary key(HotelID, sType, ReviewID), foreign key(HotelID,sType) references Service, foreign key(ReviewID) references Review)

writes(CID: char(10), ReviewID: char(10), primary key(CID), foreign key(CID) references Customer, foreign key(ReviewID) references Review)

**SQL Tables**

CREATE TABLE CreditCard(

ExpDate date,

Type varchar(20),

SecCode char(6),

Name varchar(40),

BillingAddr char(30),

Cnumber char(16),

primary key(Cnumber)

);

CREATE TABLE Customer(

CID char(10),

Email char(30),

Address char(30),

Phone\_no char(10),

Name varchar(40),

primary key (CID)

);

CREATE TABLE Reservation(

InvoiceNo char(10),

CID char(10),

Cnumber char(16),

ResDate date,

TotalAmt real,

primary key (InvoiceNo),

foreign key(CID) references customers(CID),

foreign key(Cnumber) references CreditCard(Cnumber),

);

CREATE TABLE Hotel(

HotelID char(10),

street char(20),

City char(20),

State char(10),

Country char(20),

ZIP char (5)

primary key (HotelID)

);

CREATE TABLE Hotel\_Phone\_No(

HotelID char(10),

Phone\_no char(10),

primary key(HotelID, Phone\_no),

foreign key(HotelID) references Hotel(HotelID)

);

CREATE TABLE RoomOfferRoom(

HotelID char(10),

Room\_no int,

Price real,

Capacity int,

Floor\_no int,

Description char(500),

Type char(20),

isOffer\_room boolean,

sDate date,

EDate date,

Discount real,

primary key(HotelID, Room\_no),

foreign key(HotelID) references Hotel(HotelID)

);

CREATE TABLE reserves(

HotelID char(10),

Room\_no int,

InvoiceNo char(10),

OutDate date,

InDate date,

NoOfDays int,

primary key(HotelID, Room\_no, InvoiceNo),

foreign key(HotelID) references Hotel(HotelID),

foreign key(InvoiceNo) references Reservation(InvoiceNo)

);

CREATE TABLE BreakfastOffers(

HotelID char(10),

bType char(20),

description char(500),

bPrice real,

primary key(HotelID, bType),

foreign key(HotelID) references Hotel(HotelID)

);

CREATE TABLE ServiceProvides(

HotelID char(10),

sType char(20),

sCost real,

primary key(HotelID, sType),

foreign key(HotelID) references Hotel(HotelID)

);

CREATE TABLE Reviews(

ReviewID char(10),

Rating int,

TextComment char(500),

isRoomReview boolean,

isBreakfastReview boolean,

isServiceReview boolean,

primary key (ReviewID)

);

CREATE TABLE evaluates(

ReviewID char(10),

HotelID char(10),

Room\_no int,

primary key(ReviewID, HotelID, Room\_no),

foreign key(ReviewID) references Reviews(ReviewID),

foreign key(HotelID) references Room(HotelID),

foreign key (Room\_no) references Room(Room\_no)

);

CREATE TABLE assesses(

ReviewID char(10),

bType char(20),

HotelID char(10),

primary key(HotelID, bType, ReviewID),

foreign key(HotelID) references BreakfastOffers(HotelID),

foreign key (bType) references BreakfastOffers(bType),

foreign key(ReviewID) references Reviews(ReviewID)

);

CREATE TABLE rates(

ReviewID char(10),

sType char(20),

HotelID char(10),

primary key(HotelID, sType, ReviewID),

foreign key(HotelID) references ServiceProvides(HotelID),

foreign key (sType) references ServiceProvides(sType),

foreign key(ReviewID) references Reviews(ReviewID)

);

CREATE TABLE writes(

CID char(10),

ReviewID char(10),

primary key(CID),

foreign key(CID) references Customer(CID),

foreign key(ReviewID) references Reviews(ReviewID)

);