Relational Schema:

vacation_account = (email, fname, lname, passwords)

admin_acc = (Account_email[fk1])

>   fk1: Account_email -> vacation_account.email

client_acc = (Account_email[fk2], Phone_Number)

>   fk2: Account_email -> vacation_account.email

customer = (email_addy[fk3], Phone_number[fk4], credit_card _num, exp_date, cvv, current_location)

>   Fk3: email_addy -> vacation_account.email

>   Fk4: Phone_number -> client_acc.Phone_number

owner_acc= (owner_email[fk5], cell_number[fk6])

>   Fk5: owner_email -> vacation_account.email

>   Fk6: cell_number -> client_acc.Phone_Number

airline = (airline_name, rating)

airport = (airport_ID, street, city, state, zip, airport_name, timezone)

property = (owners[fk7], property_name, descrip, street, city, state, zip, cost, capacity)

>   fk7: owners -> vacation_account.email

flight = (air_name[fk8], flight_num, departure_time, arrival_time, date_flight, cost, capacity, from_airportID[fk9], to_airportID[fk10])

>   Fk8: air_name -> airline.airline_name

>   Fk9: from_airportID -> airport.airport_ID (from is non-null)

>   Fk10: to_airportID -> airport.airport_ID (to is non-null)

amenities = (owners, p_name[fk11], amenities_name)

>   fk11: owners, p_name-> property.owners, property.property_name

airportattractions = (airport_ID[fk12], attractions_name)

>   fk12: airport_ID -> airport.airport_ID

IsRateBy = (owner_email[fk13], customer_email[fk14], cscore)

>   Fk15: owner_email -> vacation_account.email

Fk16: customer_email -> vacation_account.email

Rate = (Owner_email[fk17], Customer_email[fk18], score)

Fk17: Owner_email -> vacation_account.email

Fk18: Customer_email -> vacation_account.email

book = (customer[fk19], a_name, f_num[fk20], num_seats)

Fk19: customer -> vacation_account.email

Fk20: a_name, f_num -> flight.air_name, flight.flight_num

review = (customer[fk21], owners, property_ID[fk22], content, score)

fk21: customer -> vacation_account.email

fk22: owners, property_ID -> property.owners, property.property_name

reserve = (customer[fk23], owners, property_ID[fk24], start_date, end_date, num_guests)

fk23: customer -> vacation_account.email

fk24: owners, property_ID -> property.owners, property.property_name

is_close = (owneremail, propertyname[fk25], airport_ID[fk26], distance)

fk25: owneremail, propertyname -> property.owners, property.property_name

fk26: airport_ID -> airport.airport_ID

Unhandled Constraints:

Ensure that every account must be either client account or admin account (can't be both), and every client must be owner, or customer, or both;

Ensure that start_date is earlier than end_date in reserve relationship.

Ensure that the arrival_time and departure_time for flights can't be the same and the arrival_time has to be earlier than departure_time within the same timezone.

Ensure that the capacity value for each property is larger than the total number of number_of_ guests in reserve relationship.

Ensure that is_close relationship between airport and property has distance value less than 50;

Ensure that review has content larger than 10 characters and smaller than 300 characters.

Ensure that the capacity value of flight is larger than the total number of booked seats in book relationship between customers and flight.

Ensure that the exp_date of credit cards has to be later than the start_date of reservations.

Ensure that the rating scores are integers between one and five.