

Phase II - Team 109

Admin = (email, fname, lname, password)

Owner = (email, fname, lname, password, phone_number)

Customer = (email, fname, lname, password, phone_number, credit card #, exp_date, CVV, current_location)

Property = (owner_email [fk1], name, description, streets, city, state, ZIP)
cost_per_night_per_person, capacity,
Fk1: owner → Owner.email

Amenities = (owner_email [fk2], property_name [fk3], amenity)
Fk2: owner_email → Owner.email
Fk3: property_name → Property.name

Airline = (name, rating)

Flight = (airline_name [fk4], flight number, departure time, arrival time, date, cost_per_seat, capacity, airport_from [fk5], airport_to [fk6])
Fk4: airline → airline.name
Fk5: airport_from → Airport.name
Fk6: airport_to → Airport.name

Airport = (airport ID, name, time zone, street, city, state, ZIP)

Attractions = (airport_nearby [fk7], attraction)
Fk7: airport_nearby → airport.name

Close_to = (property [fk8], airport [fk9], distance)
Fk8: property → property.owner, property.name
Fk9: airport → airport.name

Reserve = (property_reserved [fk10], customer_reserving [fk11], no_of_guests, start_date, end_date)
Fk10: property_reserved → property.owner, property.name
Fk11: customer_reserving → customer.email

Review = (property_reviewed [fk12], customer_reviewing [fk13], content, score)
Fk12: property_reviewed → property.owner, property.name
Fk13: customer_rewviewing → customer.email

Book = (customer_booking [fk14], flight_booked [fk15], number_of_seats)

Fk14: customer_booking → customer.email

Fk15: flight_booked → flight.airline, flight.flight#

Customer_Rating = (customer_rater [fk16], owner_rated [fk17], score)

Fk16: customer_rater → customer.email

Fk17: owner_rated → owner.email

Owner_Rating = (owner_rater [fk18], customer_rated [fk19], score)

Fk18: owner_rater → owner.email

Fk19: customer_rated → customer.email

Unhandled Constraints:

1. Ensure that customers can only book flights if they have any remaining seats
2. Ensure that customers cannot reserve beyond the capacity for a given property
3. Ensure that all ratings for airlines are between 1 and 5
4. Ensure that all customers rate owners on a scale of 1 to 5
5. Ensure that all owners rate customers on a scale of 1 to 5
6. Ensure that all reviews are not only less than or equal to 300 characters but also greater than or equal to 10
7. Ensure that the input for airport_to and airport_from are different
8. Ensure the distance attribute is for the Close_to schema is less than 50
9. Ensure the start date is before the end date in the Reserve schema
10. Ensure the departure time is before the arrival time in the Flight schema