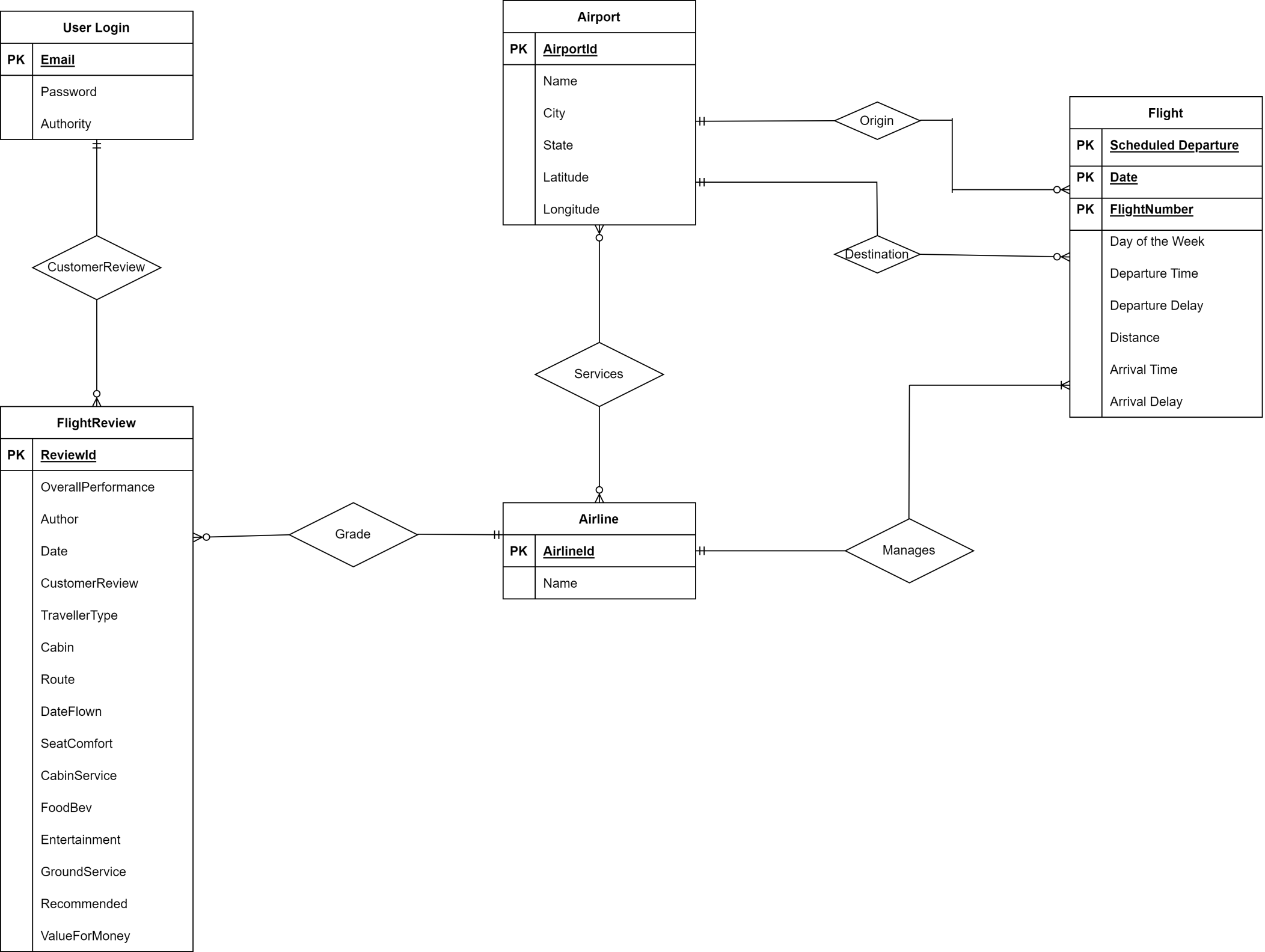
User Login
PK
Email
Password
Authority
CustomerReview
FlightReview
PK
ReviewId
OverallPerformance
Author
Date
CustomerReview
TravellerType
Cabin
Route
DateFlown
SeatComfort
CabinService
FoodBev
Entertainment
GroundService
Recommended
ValueForMoney
Grade
Airport
PK
AirportId
Name
City
State
Latitude
Longitude
Origin
Destination
Services
Airline
PK
AirlineId
Name
Manages
Flight
PK
Scheduled Departure
PK
Date
PK
FlightNumber
Day of the Week
Departure Time
Departure Delay
Distance
Arrival Time
Arrival Delay

ASSUMPTIONS/ DESCRIPTIONS-

We think UserLogin can create many flight reviews, and a review can be created by exactly one User. (Exactly 1 to Many, CustomerReviews)

We think an Airline can have many flight reviews, and a flight review can only be about exactly one airline. (0 to Many - Exactly 1, shown by Grade)

We think an Airport can have 0 to many Airlines, and an Airline can be in 0 to many Airports. (0 to Many - 0 to Many, shown by Services)

We think Airline can manage at least 1 to many Flights, and a Flight can be managed by exactly one Airline. (1 to Many - Exactly 1, shown by Manages)

We think an Airport can be an Origin for 0 to many Flights, and a Flight can be flying out from exactly one Airport. (0 to Many - Exactly 1, shown by Origin)

We think an Airport can be a Destination for 0 to many Flights, and a Flight can be flying in from exactly one Airport. (0 to Many - Exactly 1, shown by Destination)

DESCRIPTION -

UserLogin has a password and Email as the primary key. The authority is going to be used to change Airports, Airlines, and more in the database. Authority is going to be an INT, but will act as a boolean, where 0 means that the user does not have the authority to modify the data while 1 denotes that the user is authorized to modify the airport and flights data.

FlightReview has information about how the flight was and has a ReviewId as the primary key. The ReviewId is going to be created by us as a unique identifier which will be incremented for each flight review. Each of the parameters that are being reviewed can hold real values between 0 to 5. The Recommended and ValueForMoney attributes will hold the values 0 or 1 where 0 signifies that the airline flights are not recommended or does not provide value for money whereas 1 will denote the opposite for both the attributes respectively.

Airline just has the name and an AirlineId as the primary key.

The **Airport** has the name, city, and state of the airport, as well as the AirportId as the primary key. It also has the latitude and longitude for exact location.

A **Flight** has the Date, Scheduled Departure, and FlightNumber all as primary keys. Also has information about the flight such as departure and arrival time, or distance traveled.

RELATIONAL SCHEMA-

Userlogin(Email: Varchar(255) [PK], Password: Varchar(20), Authority: INT)

Airport(AirportId: Varchar(10)[PK], Name: Varchar(255), City: Varchar(255), State: Varchar(255), Latitude: REAL, Longitude: REAL)

FlightReview(ReviewId: INT [PK], Overall Performance: REAL, Date: DATE, CustomerReview: Varchar(255), TravellerType: Varchar(20), Cabin: Varchar(20), Route: Varchar(255), DateFlown: DATE, SeatComfort: Varchar(50), CabinService: REAL, FoodBev: REAL, Entertainment: REAL, GroundService: REAL, Recommended: INT, ValueForMoney: INT, AirlineId: INT [FK To Airline.AirlineId], ReviewerEmail: Varchar(255) [FK to UserLogin.Email])

Airline(AirlineId: INT [PK], Name: Varchar(255))

Flight(ScheduledDeparture: DATE [PK], Date: DATE [PK], FlightNumber: INT [PK], DayoftheWeek: INT, DepartureTime: Varchar(5), DepartureDelay: Varchar(5), Distance: Varchar(10), ArrivalTime: Varchar(5), ArrivalDelay: Varchar(5), OriginAirport: Varchar(10) [FK To Airport.AirportId], DestinationAirport: Varchar(10) ([FK To Airport.AirportID], AirlineID: INT [FK to Airline.AirlineID])

Services(AirportId: INT [PK][FK To Airport.AirportId], AirlineId: INT [PK][FK To Airline.AirlineId])