Group 19
Nicolas Carchio, Zain Sayed, Adam Romano, Steven Lazzara and Carlos Tinaco
<u>netID's</u>: nfc28, zjs15, ar1435, snl48, cat201

<u>Schemas</u>

Airline(airline_id:varchar(2), primary key(airline_id))

Aircraft(aircraft_id:int, primary key(aircraft_id))

Airport(airport_id:varchar(3), primary key(airport_id))

Owns(aircraft_id:int, airline_id:varchar(2),
     primary key(aircraft_id),
     foreign key(airline_id) references Airline)

Has_seats(aircraft_id:int, seat_number:int, seat_class:varchar(1),
     primary key(aircraft_id, seat_number),
     foreign key(aircraft_id) references Aircraft)

Flight_Operates(airline_id:varchar(2), airport_id:varchar(3), aircraft:id, flight_number:int,
flight_type:varchar(1), depart_time:datetime, arrive_time:datetime, fare_first:float,
fare_economy:float, departure_airport:varchar(3), destination_airport:varchar(3)
     primary key(airline_id, airport_id, aircraft_id, flight_number),
     foreign key(airline_id) references Airline,
     foreign key(airport_id) references Airport,
     foreign key(aircraft_id) references Aircraft)

Day(day_number:int, day:varchar(10), primary key(day_number))

Flights_on(airline_id:varchar(2), airport_id:varchar(3), aircraft:id, flight_number:int,
day_number:int,
     primary key(airline_id, airport_id, aircraft_id, flight_number, day_number),
     foreign key(airline_id) references Airline,
     foreign key(airport_id) references Airport,
     foreign key(aircraft_id) references Aircraft)

Ticket(ticket_number:int, round_trip:boolean, booking_fee:float, issue_date:datetime,
total_fare:float,
     primary key(ticket_number))

Person(username:varchar(15), password:varchar(15), name:varchar(50),

is_admin:boolean NOT NULL, is_customer_rep:boolean NOT NULL, is_customer:boolean NOT NULL, account#:int,
      primary key(username))

Reserves(ticket_number:int, user_name:varchar(15),
      primary key(ticket_number:int),
      foreign key (user_name))

Trip(ticket_number:int, airport_id:varchar(3), airline_id:varchar(2), aircraft_id:int, seat_number:int, flight_number:int, date:datetime, meal:varchar(30),
      primary key(ticket_number, airport_id, airline_id, aircraft_id, seat_number,
      flight_number)),
      foreign key(ticket_number) references Ticket,
      foreign key(seat_number) references Has_seats
      foreign key(airport_id) references Flight_Operates
      foreign key(airline_id) references Flight_Operates
      foreign key(aircraft_id) references Flight_Operates
      foreign key(flight_number) references Flight_Operates

Note

Merged "has" with "seats" → "has_seats"
Using an attribute for "departure" and "destination airports"
Merged "Flights" with "operates", "uses", "departure" and "destination" to create "flight_opperates"
Merged Trip with "operates", "for", and "assigned" into "Trip"
Added boolean values for "admin", "customer_rep" and "customer" to create one table for "Person", encompassing "admin", "customer representatives" and "customers" all in one