Airport Management System
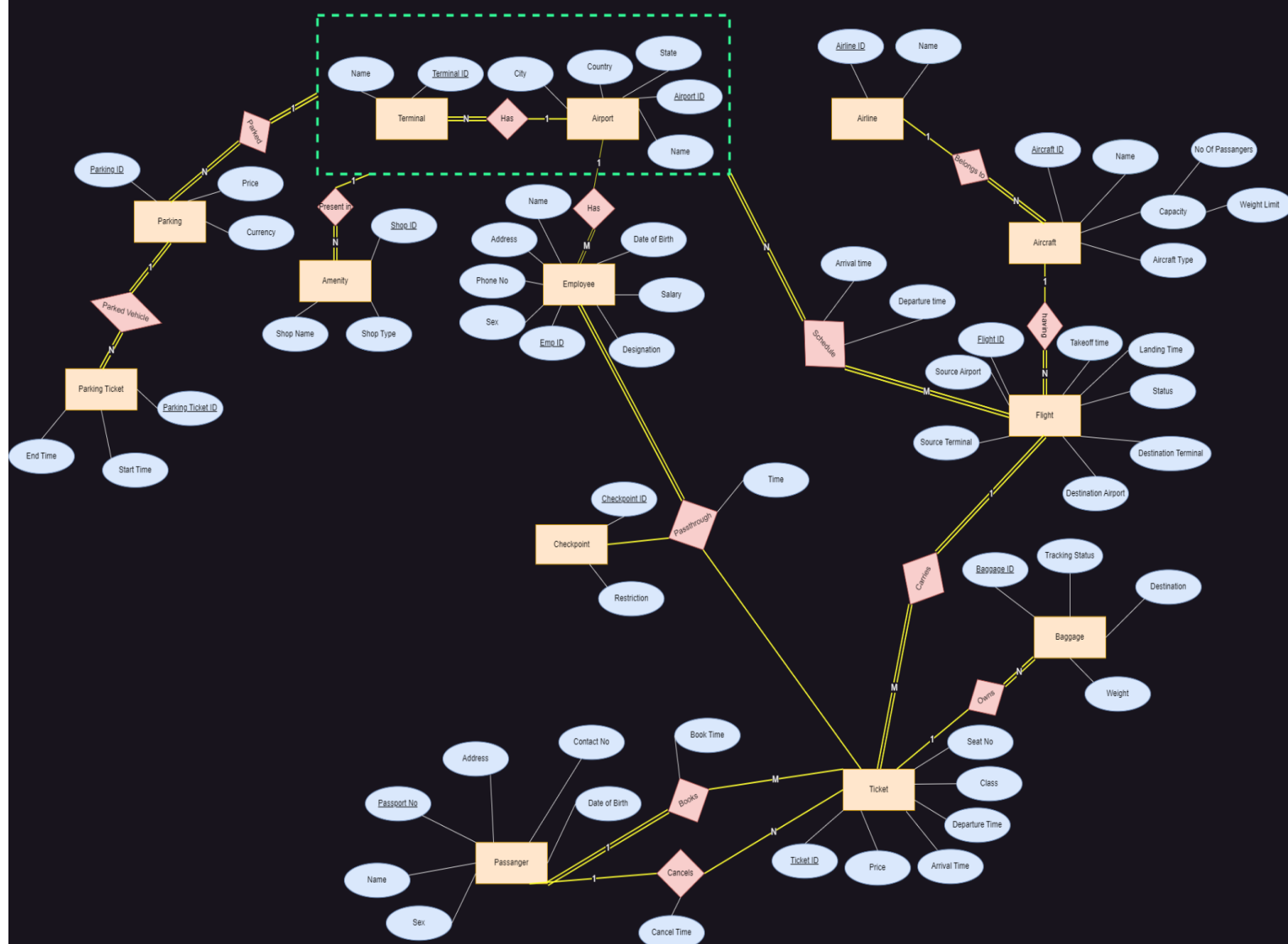
Airport Management System
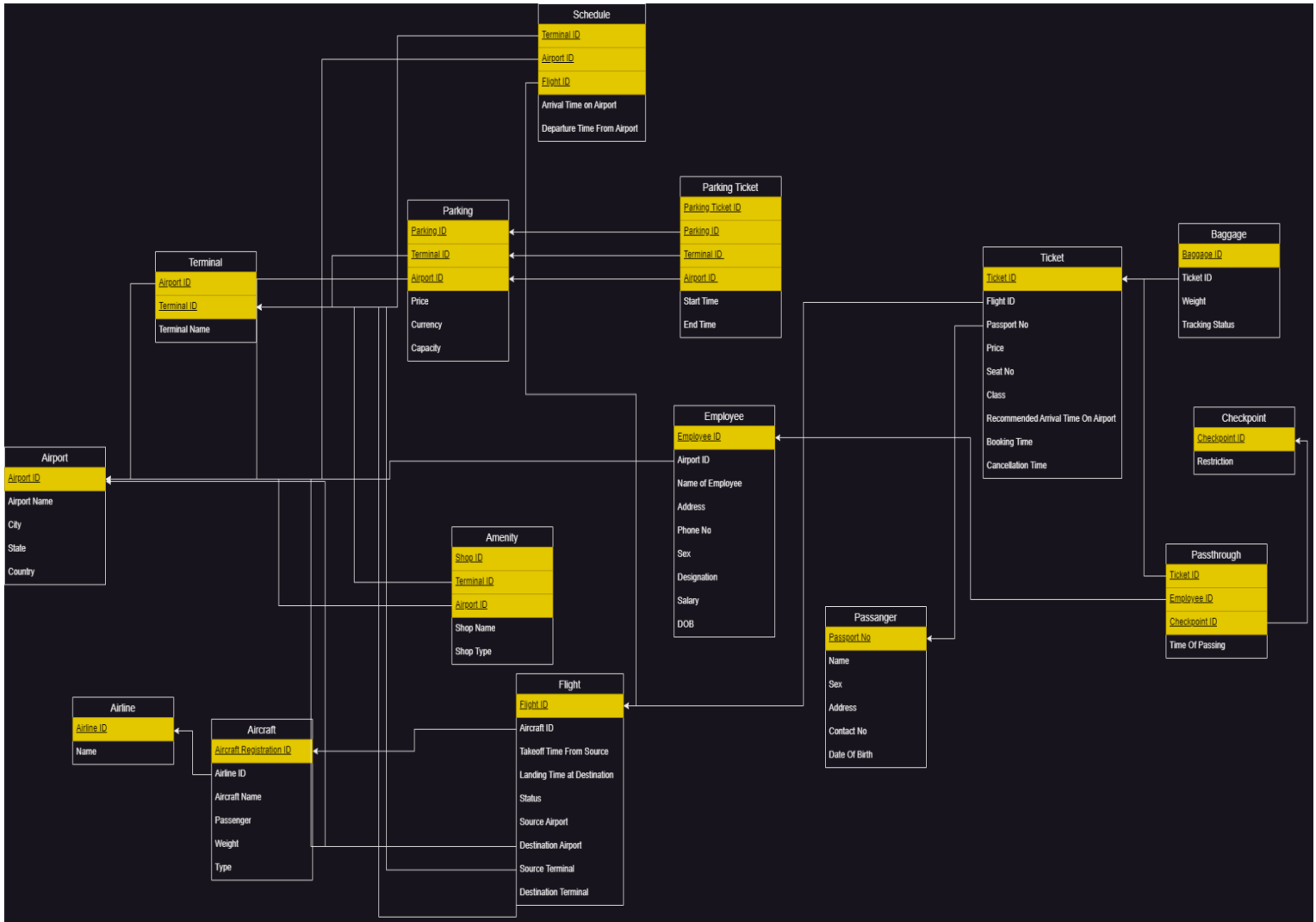G5_6

Group Details:
Aryan Jivani   - 202101425
Takshay Makadia - 202101414
Parmar Parth   - 202101077

Parked · Parking ID · Price · Currency · Parking · Parked Vehicle · Parking Ticket · Parking Ticket ID · End Time · Start Time

Name · Terminal ID · City · Country · State · Airport ID · Name · Terminal · Has · Airport · Present in

Airline ID · Name · Airline · Belongs to · Aircraft ID · Name · No Of Passangers · Capacity · Weight Limit · Aircraft · Aircraft Type

Shop ID · Amenity · Shop Name · Shop Type · Name · Address · Phone No · Sex · Emp ID · Has · Employee · Date of Birth · Salary · Designation

Arrival time · Departure time · Schedule · Source Airport · Source Terminal · having · Flight ID · Takeoff time · Landing Time · Status · Flight · Destination Terminal · Destination Airport

Checkpoint ID · Checkpoint · Restriction · Passthrough · Time · Carries · Baggage ID · Tracking Status · Destination · Baggage · Weight · Owns

Contact No · Book Time · Address · Passport No · Date of Birth · Books · Seat No · Class · Departure Time · Ticket · Name · Passanger · Cancels · Ticket ID · Price · Arrival Time · Sex · Cancel Time

Functional Dependencies

Airport ID → Airport Name
Airport ID → City
Airport ID → State
Airport ID → Country

{Terminal ID, Airport ID} → Terminal Name

Airline ID → Airline Name

Aircraft ID → Airline ID
Aircraft ID → Aircraft Name
Aircraft ID → No Of Passengers
Aircraft ID → Weight Limit
Aircraft ID → Aircraft Type

Flight ID → Aircraft ID
Flight ID → Takeoff Time
Flight ID → Landing Time
Flight ID → Status
Flight ID → Source Airport
Flight ID → Destination Airport
Flight ID → Source Terminal
Flight ID → Destination Terminal
Flight ID → Duration Of Flight

Passport No → Name
Passport No → Sex
Passport No → Address
Passport No → Contact No
Passport No → Date Of Birth

{Checkpoint Id,Airport_id,terminal_id}→ Restriction

Baggage ID → Ticket ID
Baggage ID → Weight
Baggage ID → Tracking Status

Ticket ID→ Flight ID
Ticket ID→ Passport No
Ticket ID→ Price
Ticket ID → Seat No
Ticket ID → Class
Ticket ID → Booking Time
Ticket ID → Cancellation Time

Ticket ID→ Flight ID

Ticket ID→ Passport No
Ticket ID→ Price
Ticket ID → Seat No
Ticket ID → Class
Ticket ID → Recommended Arrival Time On Airport
Ticket ID → Booking Time

Employee ID → Airport ID
Employee ID → Name Of Employee
Employee ID → Designation
Employee ID → Salary
Employee ID → DOB
Employee ID → Sex
Employee ID → Phone No
Employee ID → Address

{Airport ID, Terminal ID, Shop ID} → Shop Name
{Airport ID, Terminal ID, Shop ID} → Shop Type

{Airport ID, Terminal ID, Flight ID} → Arrival Time On Airport
{Airport ID, Terminal ID, Flight ID} → Departure Time From Airport

{Ticket ID, Employee ID, Checkpoint ID,Airport_id,Terminal_id} → Time of Passing

{Parking Ticket ID, Parking ID, Terminal ID, Airport ID} → Start Time
{Parking Ticket ID, Parking ID, Terminal ID, Airport ID} → End Time

{Parking ID, Terminal ID, Airport ID} → Currency
{Parking ID, Terminal ID, Airport ID} → Price
{Parking ID, Terminal ID, Airport ID} → Capacity

- All the attributes on the left hand side are the key of the respective table. Hence all the relations are in BCNF.

--------------------END--------------------