Users
name
Email
Password

Books
BookingHistory
0..*

(BookingID,
BookingName,
Type of Identity,
Identity No.,
Age,
No. of Adults,
No. of Infants,
*Attributes of flight
details)

0..*

Airports
Stn_code
Airport Name
City

2..3

from
to
Indirect

0..*

Flights
flight_ID
source
destination
stops
Halt_station

0..*

0..*

0..*

(Path [012]
PathDesc
Date of dep
time of dep
Date of Arr
time of Arr
Economy fare
Business_fare
firstclass_fare)

Taken
by
Plane

Has Booked
Seats
in plane

(Booked-Eco
nomy
seats,

Booked busi
ness
seats,
Booked first
seats)

0..*

Manages

1..2

1..2

Planes
Plane_ID
Airlines
Total Economy seats
Total Business seats
Total first Seats

0..*

0..*

Admin
Username
Password

Schemas

1) users (_Email_, name, password)

2) Admin (_username_, password)

3) Airports (~~stn_code~~, Airport_name, city)

4) Planes (plane_id, Airlinesname, Total_Economy_seats, Total_Business seats, Total_first seats).

5) manages (username, ~~Airports_to~~, stn_code, plane_ID, flight_ID)
~~Taken-by-planet~~

6) flights (flight_id, source, destination, stops, haltstation)

7) from_to_indirect (flight_id, stn_code)

8) Taken_by-plane (flight_id, Plane_id, Path, PathDesc, Dateof depart, time-of-depart, Date of arrival, time_of arrival, Economy_fare, Business_fare, first_fare)

9) has_booked_seats_in_plane (flightID, PlaneID, Booked_Economy_seats, Booked_business seats, Booked_first_seats)

10) Books_or_BookingHistory (BookingID, flight_ID, plane_ID, Booking_name, Age, Typeof Identity, Identity No., No. of adults, No. of Infants, *Plane Details)
                                                                    attributes

## Assumptions:-

* flights with only one intermediate stop is implemented in our system.

* Admin database is externally (given as in Db) and there is no sign-up for them.

## Queries:

users ——— < can > 
→ Signup
→ login
→ Book flights
→ See their Booking history
→ Book at a time atmost of 5 tickets and the total fare ~~payment is can~~ be paid at a time
→ View flights in two different tables one is for direct flights and other is for indirect flights with exactly 1 intermediate stop.

Admins —— can → Manage Airports
ⓐ Insert New
ⓑ Delete Existing

→ Manage planes
ⓐ Insert New
ⓑ Delete Existing

→ Manage flights
ⓐ Insert New direct flights
ⓑ Insert New Indirect flights
ⓒ Delete Both Indirect & direct flights
ⓓ Update_fare