

**GROUP 34**  
DBMS 2024

 **Falcon**



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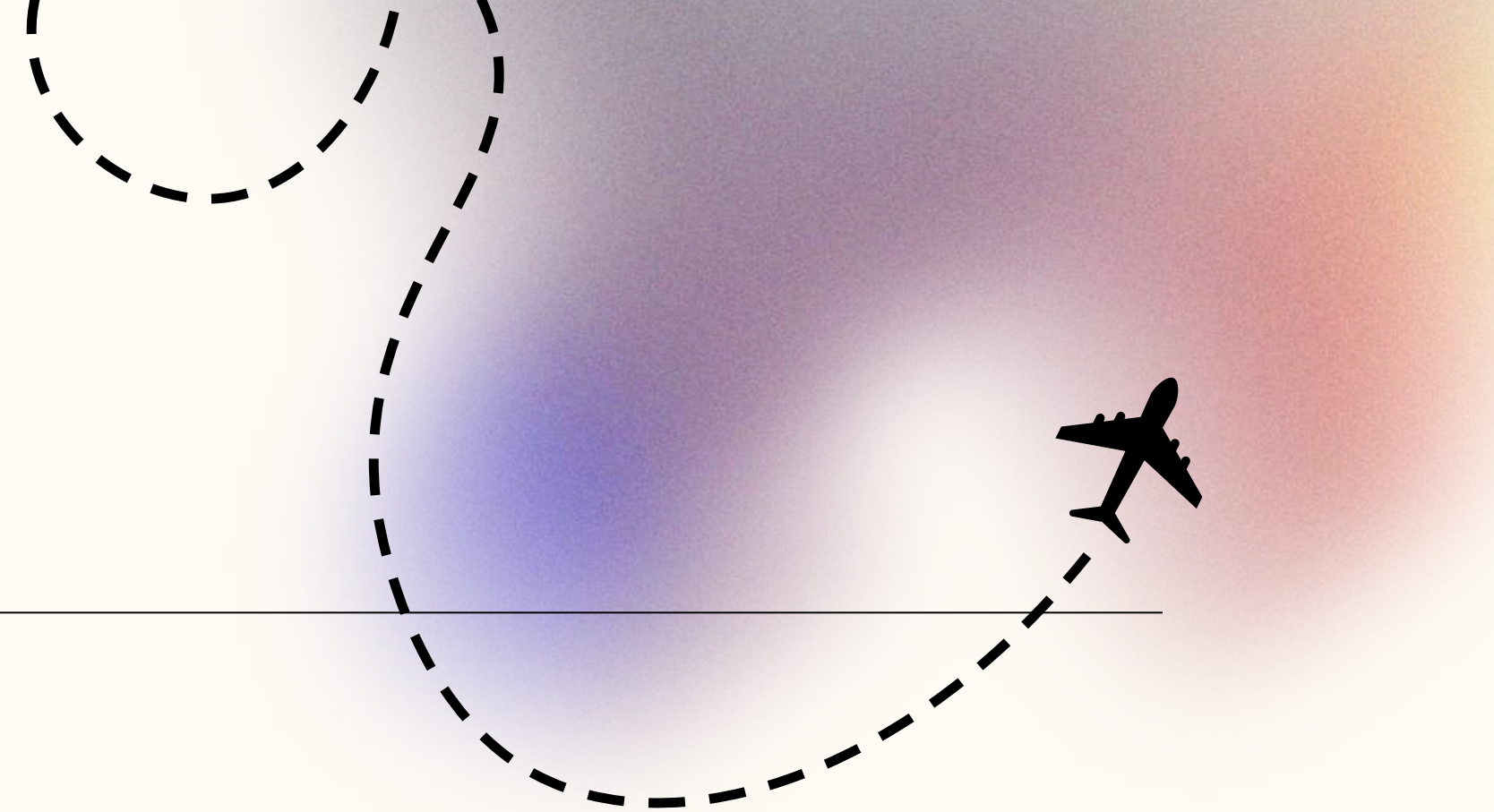


# How it Works:

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## The System Aims to:

- Allow **users** to create accounts, book flights based on location and date
- Allow **users** to choose seats, mention special requests, and make payments
- Show ticket details to users
- Allow **users** to book multiple tickets for multiple passengers
- Allow **admin** to create accounts, view booking details, and manage flights
- Allow **admin** to view different data, such as monthly revenue
- Allow **admin** to view special requests
- Allow **admin** to view pending payments

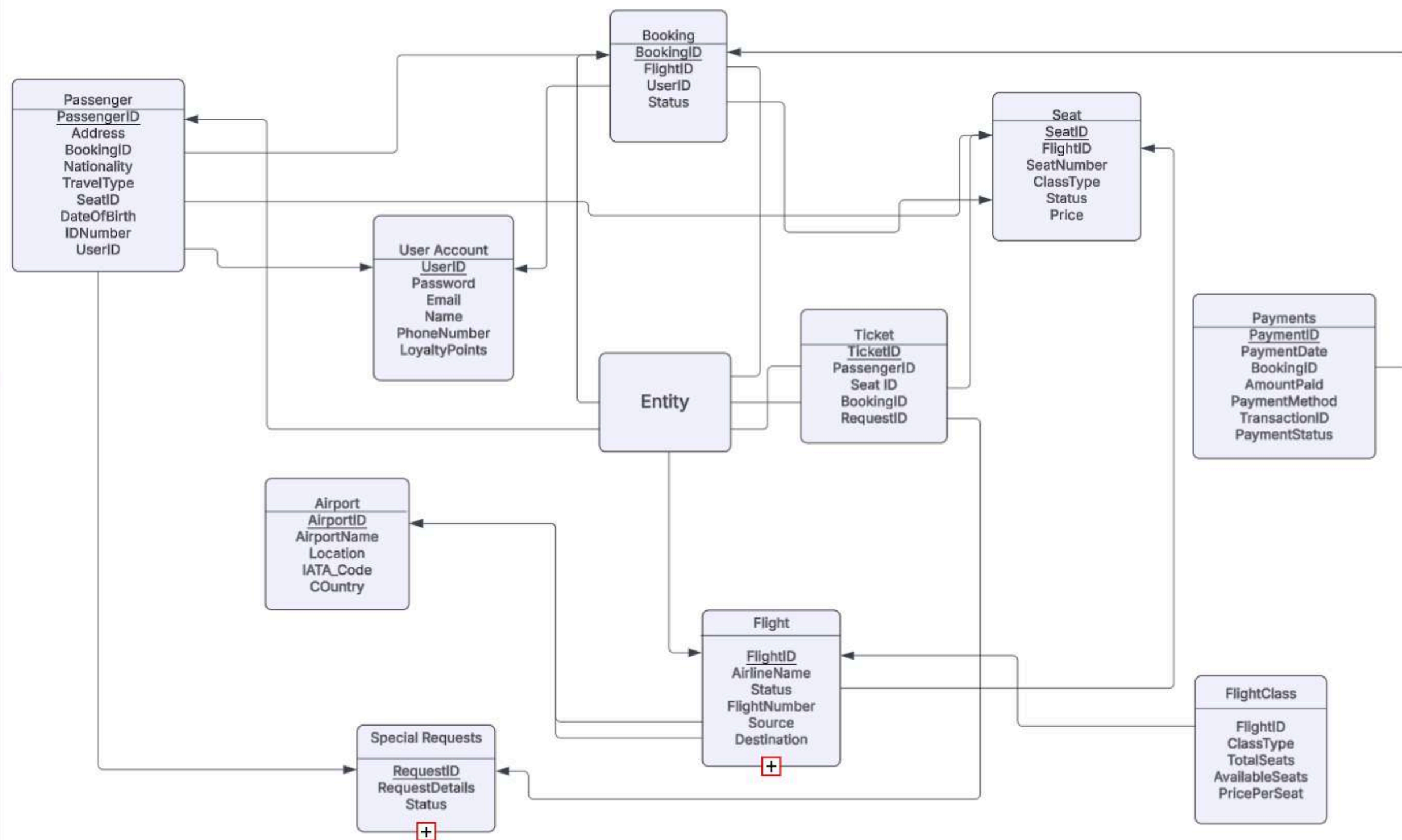


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## Relational Model



# Relational Model

# SQL Queries Used:



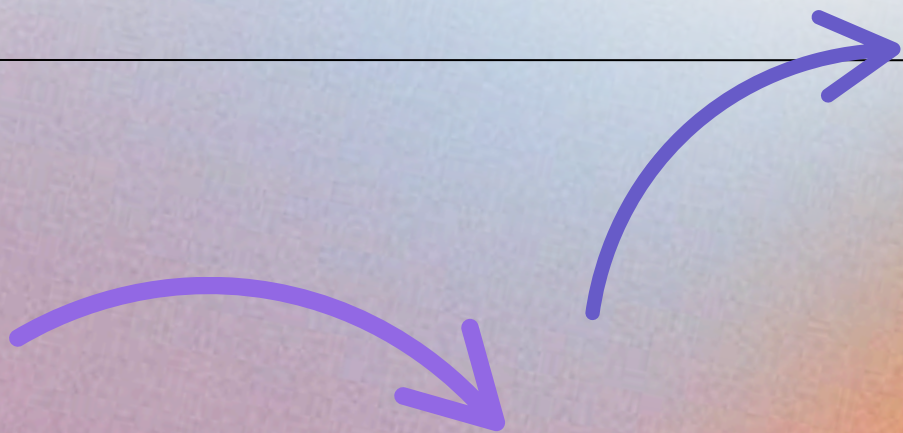
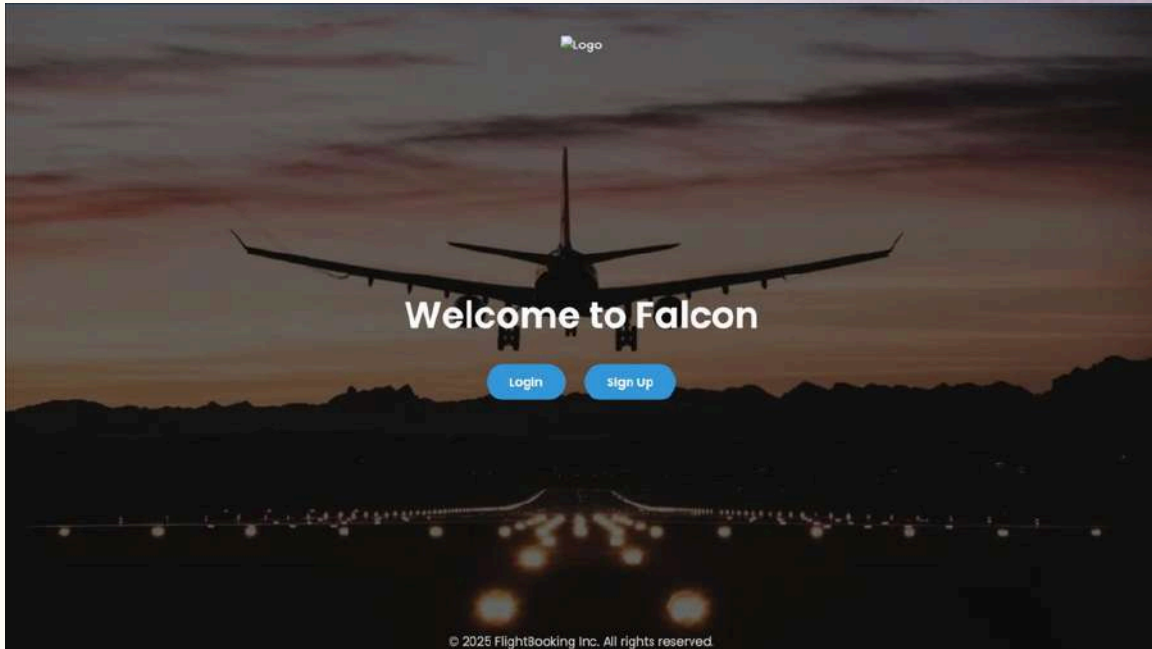
These are the SQL queries we used

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- Retrieve all bookings for a given user
- Find all tickets booked for a specific flight
- Get the user's booking details and payment status
- Retrieve all pending payments for a user
- Get the total revenue generated from all bookings for a given month
- List all special requests made for a particular flight
- Find flights between two cities on a specific date, sorted by price
- Find the flights with the lowest/highest bookings
- Approve special requests made by users
- Find the most frequent users of Falcon
- Get all user account details for a particular user
- and more...



# Our GUI



User Account

Flight Bookings

From: Departure city

To: Arrival city

Departure Date:

Travel Class:

Adults (12+):

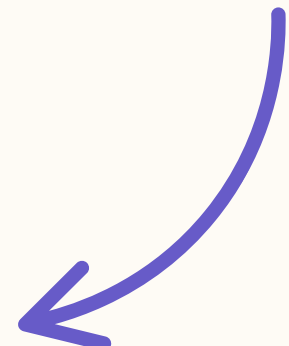
Children (2-11):

Infants (Under 2):



Available Flights

Flight No.	Airline	From	To	Departure	Arrival	Type	Class	Price	Seats	Action
6E101	IndiGo	Delhi	Mumbai	2025-02-20 06:30:00	2025-02-20 08:45:00	Non-Stop	Business	\$12000.00	8	<input type="button" value="Book Now"/>



Passenger Information

Selected Travel Class: Business

Number of Passengers: 1

Passenger 1

Name:

Date of Birth:

Address:

ID Number:

Nationality:

Travel Type: ☒ Domestic ☐ International

Special Requests:



User Login

Login as Admin instead? [Login now](#)

Email Address:

Password:

Don't have an account? [Signup now](#)



# Our GUI

Confirm Payment

Flight: 1

Amount: ₹12000.00

Confirm Payment

Booking Details

Booking ID: 31

Flight: IndiGo (6E101)

From: Delhi | To: Mumbai

Departure: 2025-02-20 06:30:00 | Arrival: 2025-02-20 08:45:00

Delhi Mumbai

Passenger

Hi

Nationality: India

Flight

Seat

Class

Price

Special Request

6E101 13C Business ₹12000.00 MEOWWWWW

Feb-20-2025 at 06:30AM

Disclaimer: This is a digital boarding pass. Please arrive at the gate 45 minutes before departure.

Admin Login

Login as User instead? Login now

Email Address

AdminID

Login

Welcome, Admin!

You are now on the Admin Dashboard. Choose what you want to manage below:

Manage Flights

Booking Details

1. Retrieve all bookings for a user

User ID

Run Query

Booking ID	Flight ID	Airline	Flight Number	Source	Destination	Departure	Status
1	1	IndiGo	6E101	Delhi	Mumbai	2025-02-20 06:30:00	Confirmed

3. Get booking & payment details

User ID

Run Query

Booking ID	Payment ID	Amount	Method	Status
1	46	\$7500.00	Credit Card	Success

2. Find tickets for a flight

Flight ID

Run Query

User ID	Passenger Name	Ticket ID	Booking ID	Passenger ID
1	Aarav Sharma	40	1	1
23	hi	59	24	20

### 4. List flight special requests

Run Query

Request ID	Booking ID	Details	Status
1	1	Require Wheelchair assistance from check-in to boarding	Pending
6	24	food	Pending

### 5. Approve Special Request

7

Approve

7	29	MEOWWWW	Approved
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### 1. Monthly Revenue

2

25

Run Query

Total Revenue for 2/2025: \$54850.00

### 2. Flights with Low Bookings

Run Query

Flight ID	Flight Number	Airline	Source	Destination	Total Bookings
2	AI202	Air India	Mumbai	London	1
3	SG303	SpiceJet	Bangalore	Chennai	1

### 4. View Pending Payments

hi@gmail.com

Run Query

No pending payments found for this user

### 3. Frequent Users

Run Query

User ID	Name	Email	Total Bookings
23	hi	hi@gmail.com	11