Flight Booking

First Normal Form: Flight Booking

Users

User ID	Username	Password Hash	Role	Email	Phone Number
1	Charles Xavier	hash12345	Admin	professorx@example.com	310-807-3956
2	Jean Grey	hash67890	User	darkphoenix@example.com	310-807-3957
3	Hank McCoy	hash13579	User	drbeast@example.com	310-807-3958
4	Ororo Munroe	hash24680	User	storm@example.com	310-807-3959

Flight

Flight ID	Departure City	Arrival City	Flight Date	Duration Hours	Base Price	Flight Status
101	New York	London	02-26-2025	8	1200	Scheduled
102	Manila	Singapore	02-28-2025	6	2100	Scheduled
103	San Francisco	Rome	03-02-2025	9	1600	Scheduled
104	Tokyo	Sydney	03-04-2025	10	3100	Scheduled

Flight Names

Flight Name ID	Region	Name	Flight ID
1	North America	Airline 1	101
2	Asia	Airline 2	102
3	North America	Airline 3	103
4	Asia	Airline 4	104

Seats

Seat ID	Flight ID	Seat Number	Class	Status	Seat Price
1	101	A1	First	Booked	1400
2	102	A2	First	Booked	1400
3	103	A3	First	Booked	1400
4	104	A4	First	Booked	1400

Carts

Flight ID	Cart ID	User ID
101	1	1
102	2	2
103	3	3
104	4	4

Second Normal Form: Flight Booking

Users

User ID	Username	Password Hash	Role	Email	Phone Number
1	Charles Xavier	hash12345	Admin	professorx@example.com	310-807-3956
2	Jean Grey	hash67890	User	darkphoenix@example.com	310-807-3957
3	Hank McCoy	hash13579	User	drbeast@example.com	310-807-3958
4	Ororo Munroe	hash24680	User	storm@example.com	310-807-3959

Flight

Flight ID	Departure City	Arrival City	Flight Date	Duration Hours	Base Price	Flight Status
101	New York	London	02-26-2025	8	1200	Scheduled
102	Manila	Singapore	02-28-2025	6	2100	Scheduled
103	San Francisco	Rome	03-02-2025	9	1600	Scheduled
104	Tokyo	Sydney	03-04-2025	10	3100	Scheduled

Flight Names

Flight Name ID	Name	Flight ID
1	Airline 1	101
2	Airline 2	102
3	Airline 3	103
4	Airline 4	104

Regions

Region ID	Region
1	North America
2	Asia

Seats

Seat ID	Flight ID	Seat Number	Status
1	101	A1	Booked
2	102	A2	Booked
3	103	A3	Booked
4	104	A4	Booked

Seat Classes

Class	Seat Price
First	1400
Economy	400

Carts

Flight ID	Cart ID	User ID
101	1	1
102	2	2
103	3	3
104	4	4

Third Normal Form: Flight Booking

Users

User ID	Username	Password Hash	Role	Email
1	Charles Xavier	hash12345	Admin	professorx@example.com
2	Jean Grey	hash67890	User	darkphoenix@example.com
3	Hank McCoy	hash13579	User	drbeast@example.com
4	Ororo Munroe	hash24680	User	storm@example.com

User Contact Table

Contact ID	User ID	Phone Number
1	1	310-807-3956
2	2	310-807-3957
3	3	310-807-3958
4	4	310-807-3959

Flight

Flight ID	Departure City	Arrival City	Flight Date	Duration Hours	Base Price	Flight Status
101	New York	London	02-26-2025	8	1200	Scheduled
102	Manila	Singapore	02-28-2025	6	2100	Scheduled
103	San Francisco	Rome	03-02-2025	9	1600	Scheduled
104	Tokyo	Sydney	03-04-2025	10	3100	Scheduled

Flight Names

Flight Name ID	Name	Flight ID
1	Airline 1	101
2	Airline 2	102
3	Airline 3	103
4	Airline 4	104

Regions

Region ID	Region
1	North America
2	Asia

Seats

Seat ID	Flight ID	Seat Number	Status
1	101	A1	Booked
2	102	A2	Booked
3	103	A3	Booked
4	104	A4	Booked

Seat Classes

Class	Seat Price
First	1400
Economy	400

Carts

Cart ID	User ID
1	1
2	2
3	3
4	4

Carts - Flight

Cart ID	Flight ID
1	101
2	102
3	103
4	104