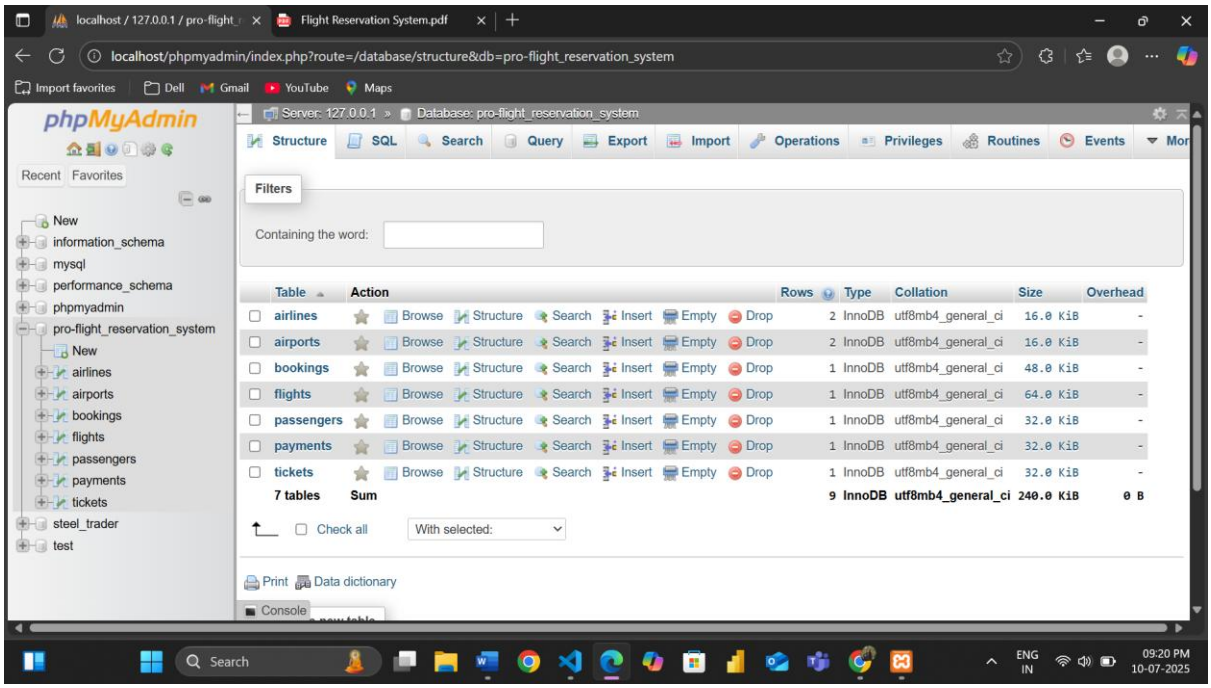
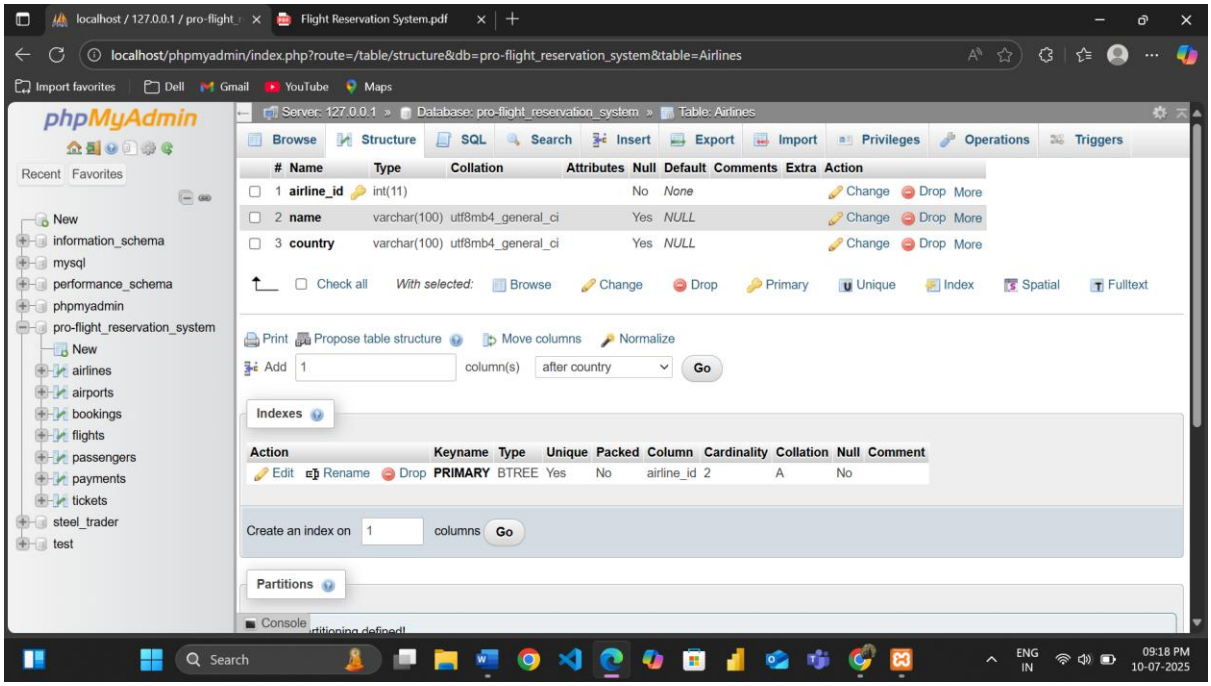
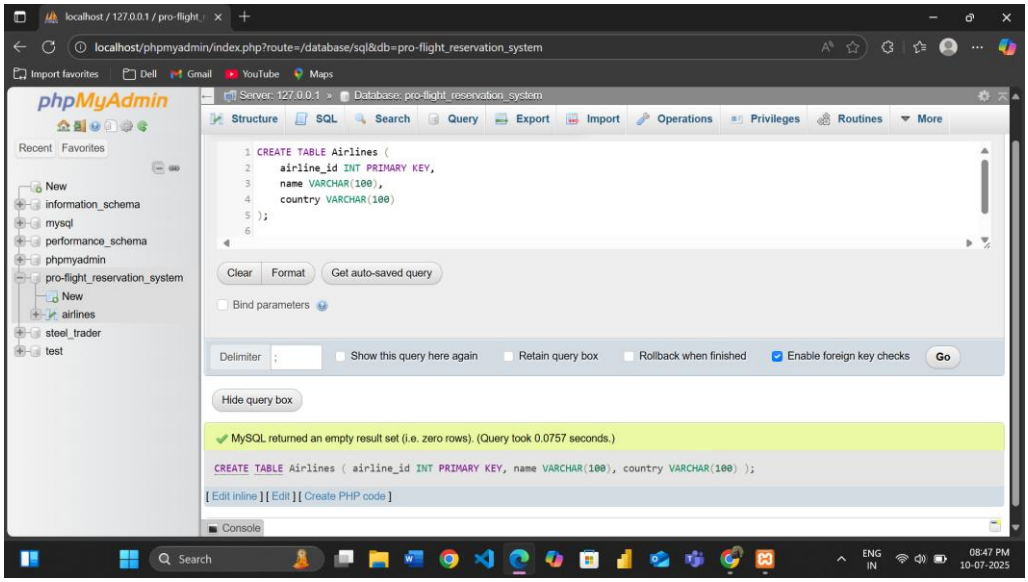
Project: Flight-Reservation-System using SQL

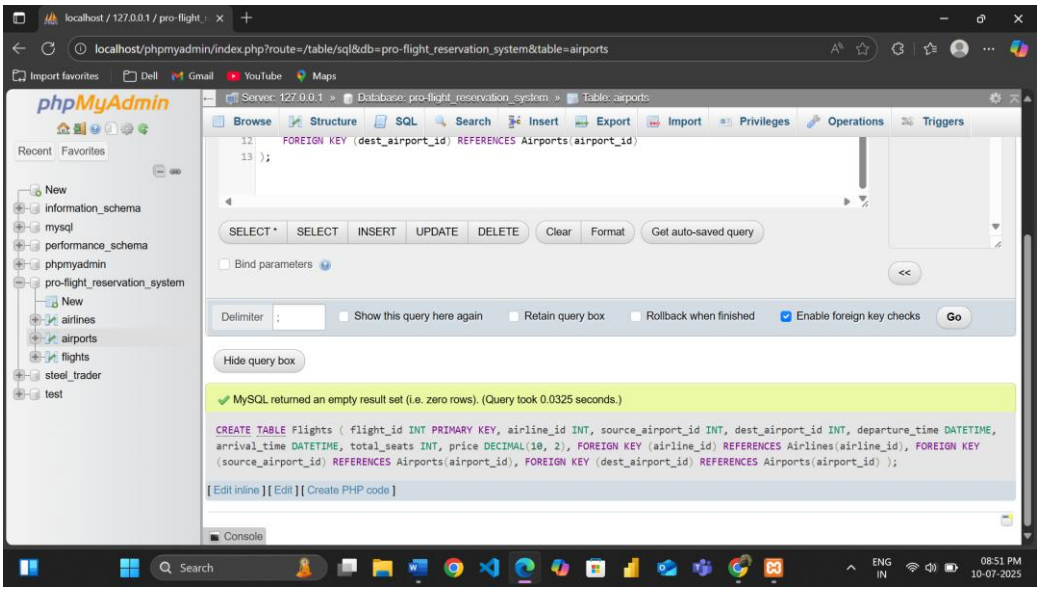
Build a database that handles booking, flight management, passenger info, and airline operations, and answer queries like:

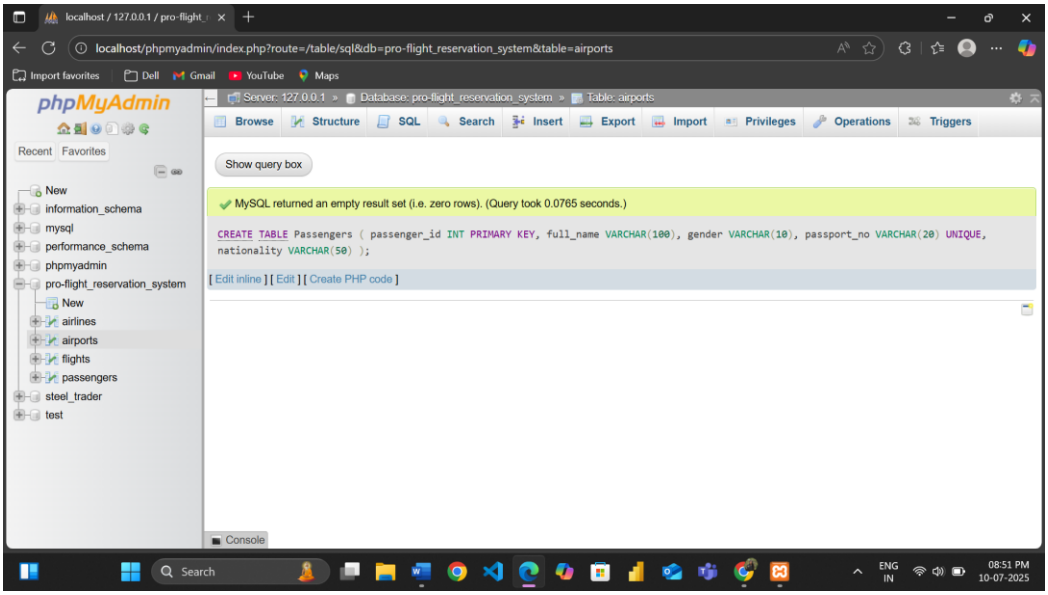
- Seat availability
- Most booked flights
- Revenue per airline
- Passenger history

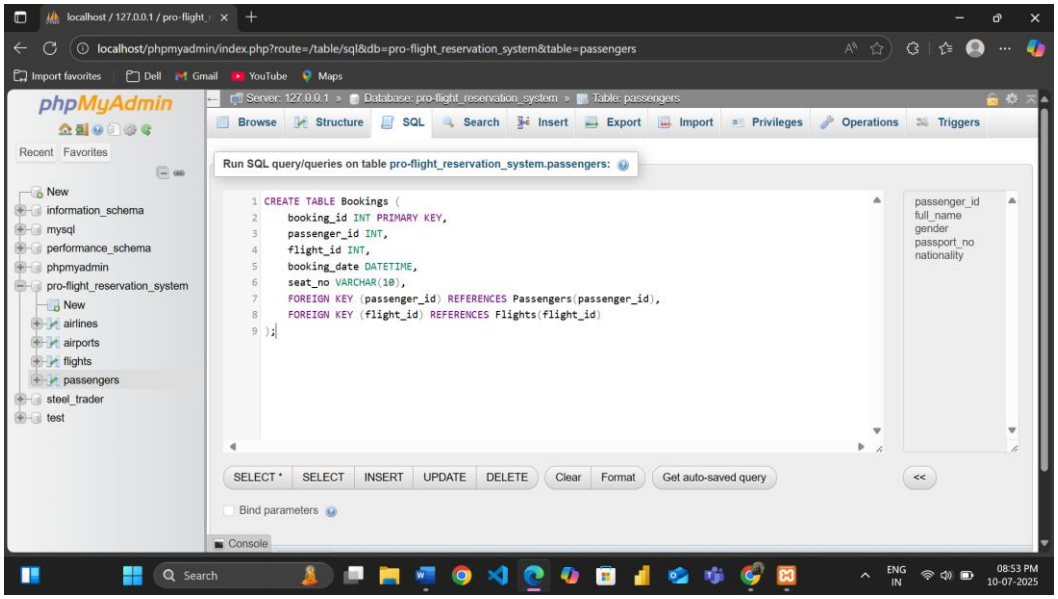


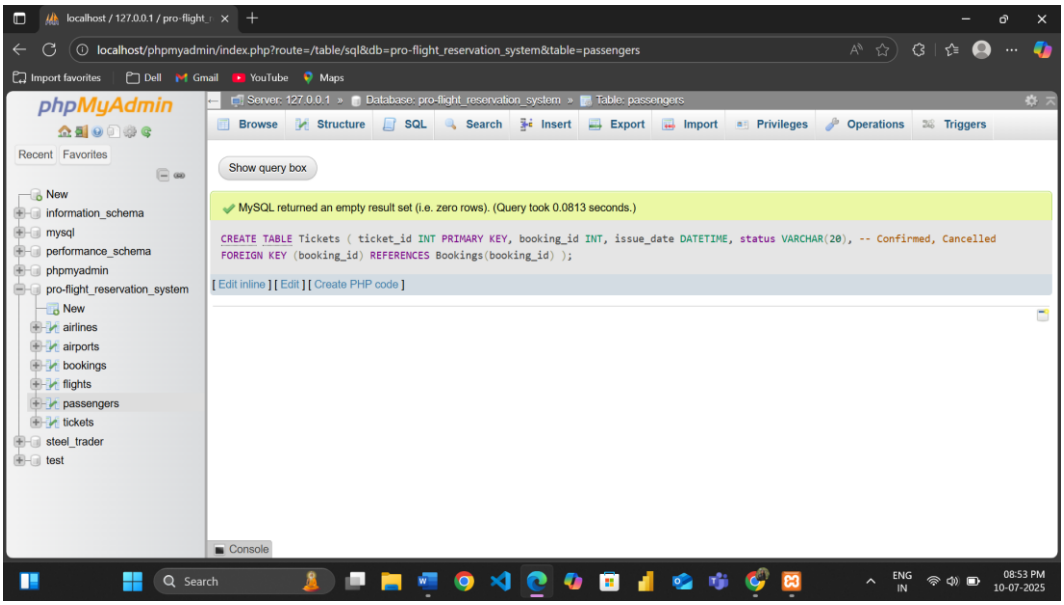


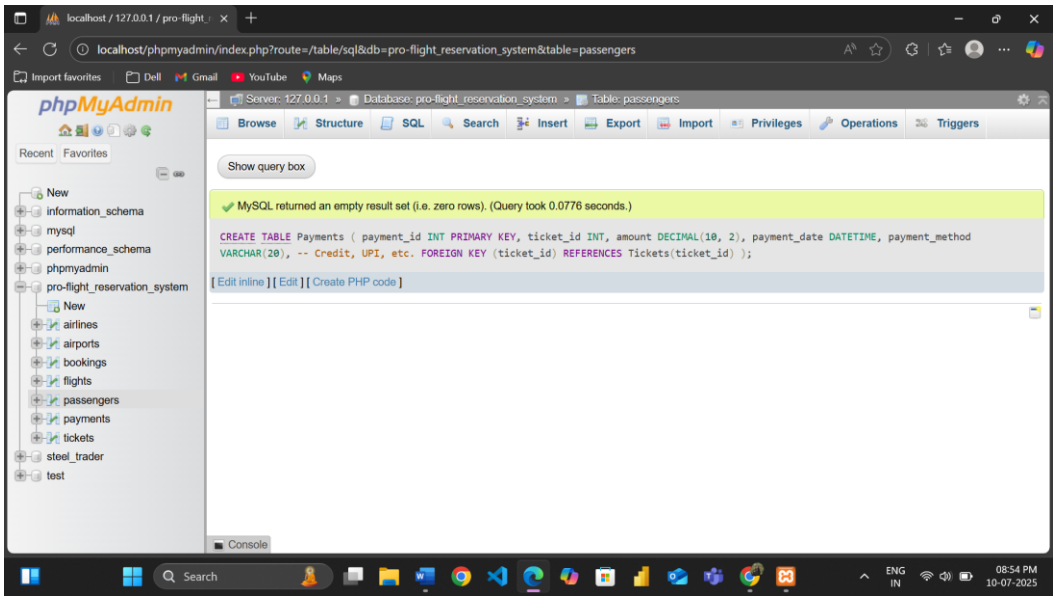

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/database/sql&db=pro-flight_reservation_system
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system
Structure SQL Search Query Export Import Operations Privileges Routines More
CREATE TABLE Airlines (
airline_id INT PRIMARY KEY,
name VARCHAR(100),
country VARCHAR(100)
);
Clear Format Get auto-saved query
Bind parameters
Delimiter ; Show this query here again Retain query box Rollback when finished Enable foreign key checks Go
Hide query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0757 seconds.)
CREATE TABLE Airlines (airline_id INT PRIMARY KEY, name VARCHAR(100), country VARCHAR(100));
[Edit inline] [Edit] [Create PHP code]
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
steel_trader
test
Search
ENG IN
08:47 PM 10-07-2025

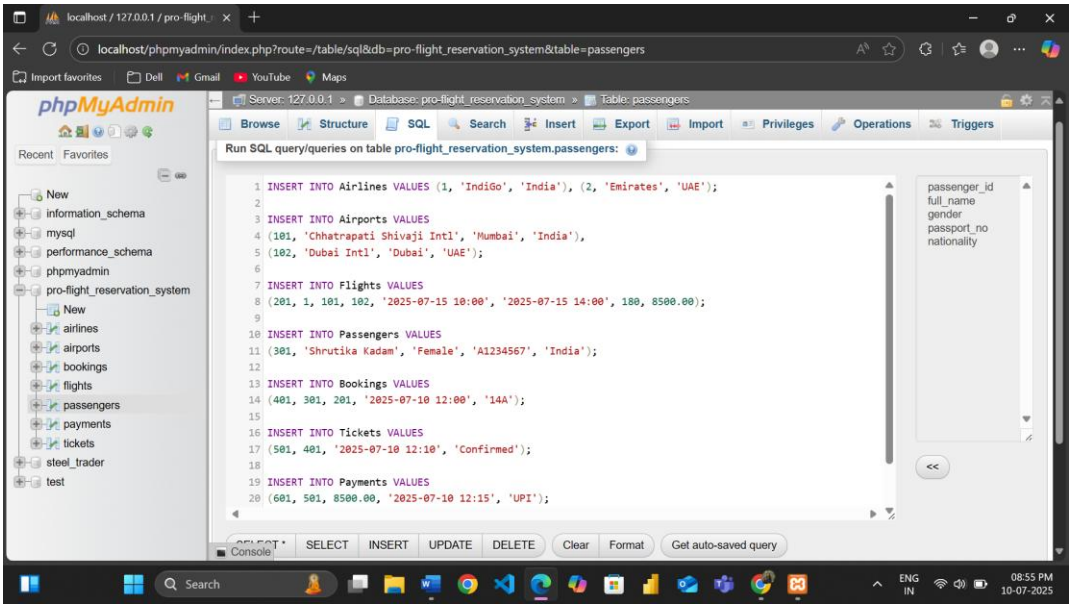

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=airports
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: airports
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
FOREIGN KEY (dest_airport_id) REFERENCES Airports(airport_id)
);
SELECT * SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query
Bind parameters
Delimiter ; Show this query here again Retain query box Rollback when finished Enable foreign key checks Go
Hide query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0325 seconds.)
CREATE TABLE Flights (flight_id INT PRIMARY KEY, airline_id INT, source_airport_id INT, dest_airport_id INT, departure_time DATETIME, arrival_time DATETIME, total_seats INT, price DECIMAL(10, 2), FOREIGN KEY (airline_id) REFERENCES Airlines(airline_id), FOREIGN KEY (source_airport_id) REFERENCES Airports(airport_id), FOREIGN KEY (dest_airport_id) REFERENCES Airports(airport_id));
[Edit inline] [Edit] [Create PHP code]
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
airports
flights
steel_trader
test
Search
ENG IN
08:51 PM 10-07-2025

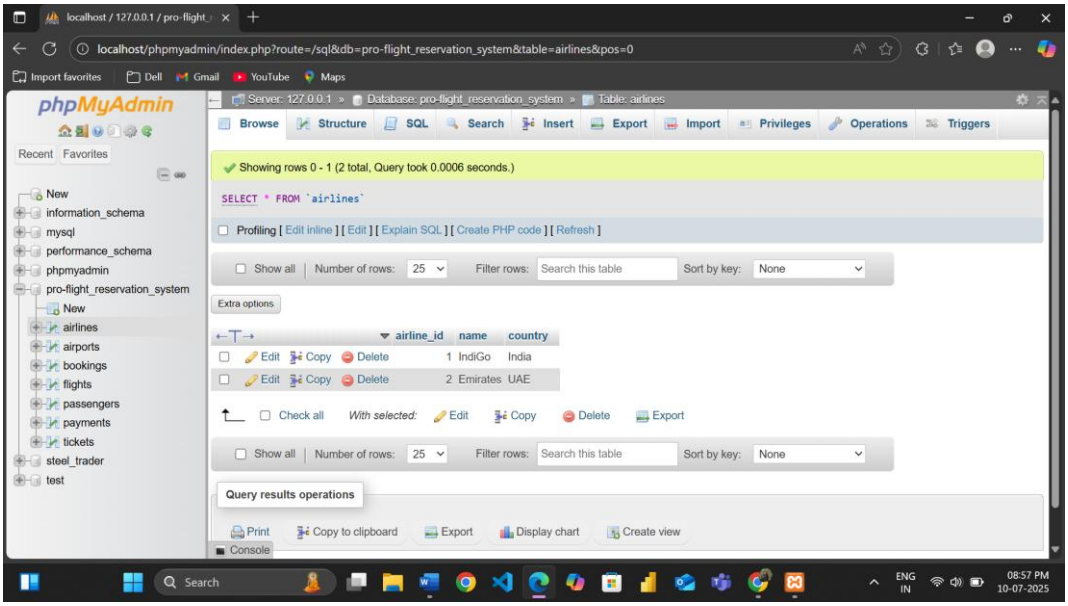

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=airports
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: airports
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0765 seconds.)
CREATE TABLE Passengers (passenger_id INT PRIMARY KEY, full_name VARCHAR(100), gender VARCHAR(10), passport_no VARCHAR(20) UNIQUE, nationality VARCHAR(50));
[Edit inline] [Edit] [Create PHP code]
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
airports
flights
passengers
steel_trader
test
Search
ENG IN
08:51 PM 10-07-2025

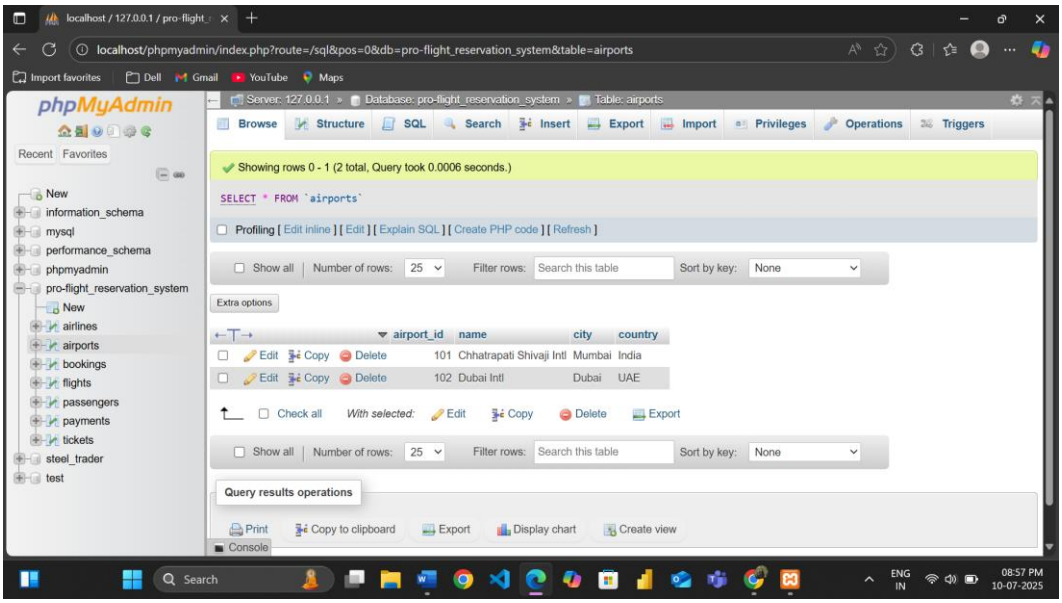

localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=passengers
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: passengers
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Run SQL query/queries on table pro-flight_reservation_system.passengers:
CREATE TABLE Bookings (
booking_id INT PRIMARY KEY,
passenger_id INT,
flight_id INT,
booking_date DATETIME,
seat_no VARCHAR(10),
FOREIGN KEY (passenger_id) REFERENCES Passengers(passenger_id),
FOREIGN KEY (flight_id) REFERENCES Flights(flight_id)
);
passenger_id
full_name
gender
passport_no
nationality
SELECT * SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query
Bind parameters
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
airlines
airports
flights
passengers
steel_trader
test

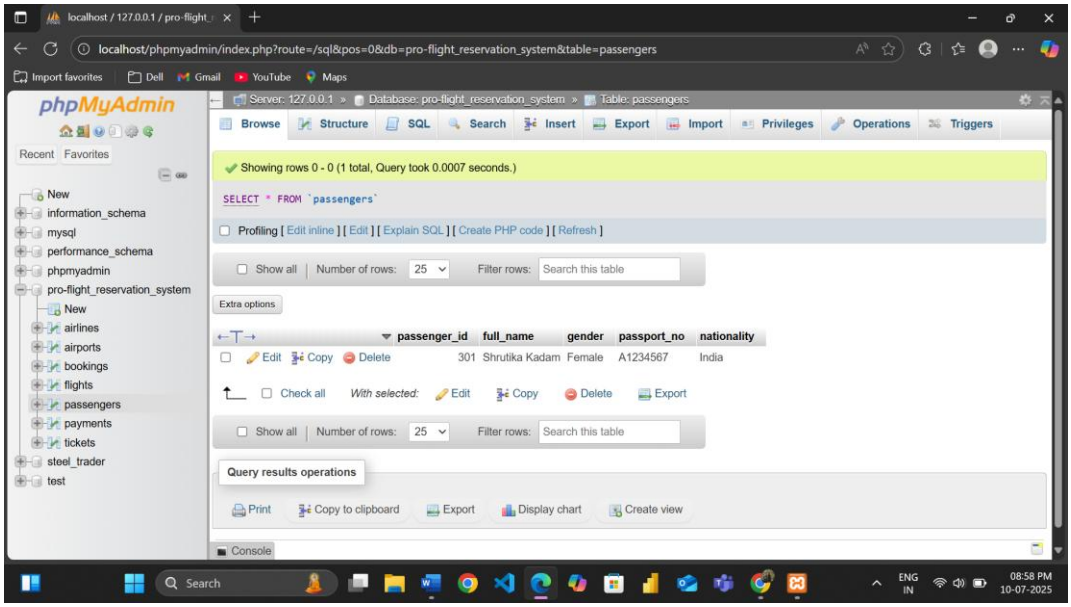

localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=passengers
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: passengers
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0813 seconds.)
CREATE TABLE Tickets (ticket_id INT PRIMARY KEY, booking_id INT, issue_date DATETIME, status VARCHAR(20), -- Confirmed, Cancelled
FOREIGN KEY (booking_id) REFERENCES Bookings(booking_id));
[Edit inline] [Edit] [Create PHP code]
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
airlines
airports
bookings
flights
passengers
tickets
steel_trader
test

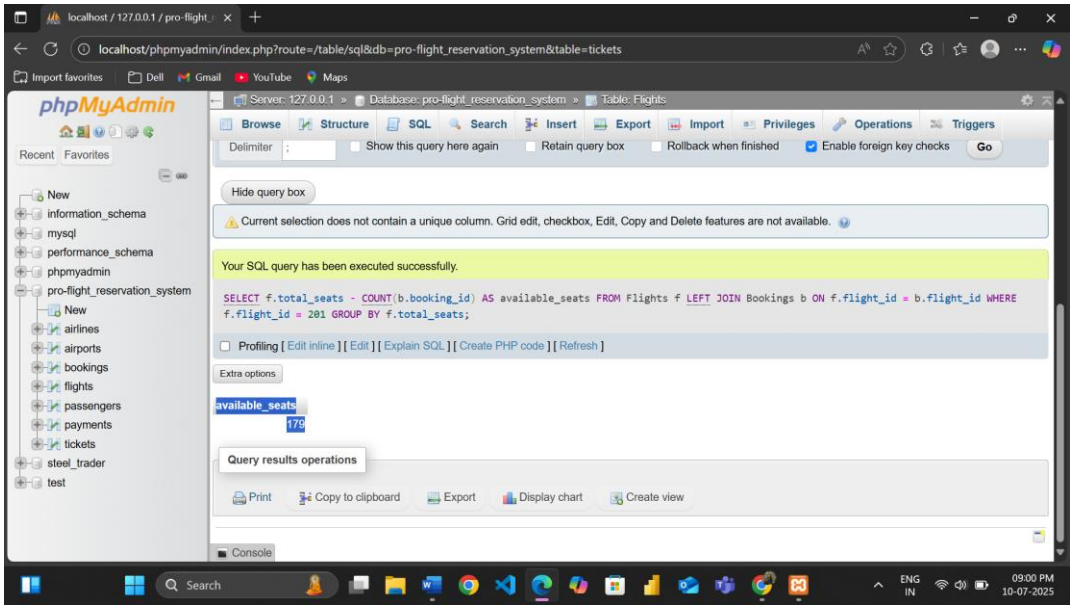

localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=passengers
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: passengers
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0776 seconds.)
CREATE TABLE Payments (payment_id INT PRIMARY KEY, ticket_id INT, amount DECIMAL(10, 2), payment_date DATETIME, payment_method
VARCHAR(20), -- Credit, UPI, etc. FOREIGN KEY (ticket_id) REFERENCES Tickets(ticket_id));
[Edit inline] [Edit] [Create PHP code]
Console
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
airlines
airports
bookings
flights
passengers
payments
tickets
steel_trader
test

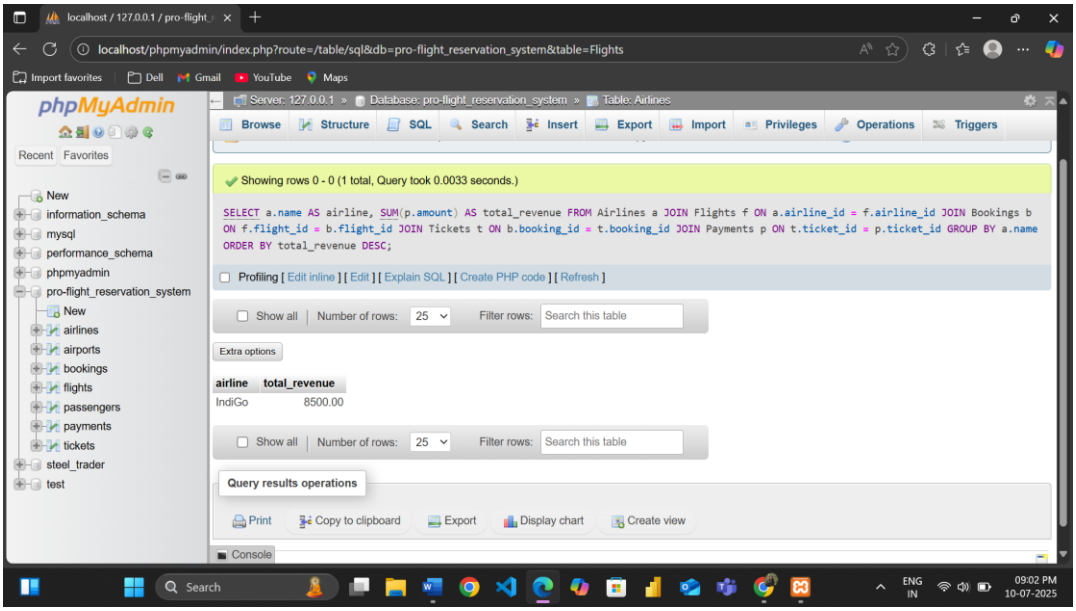

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=passengers
Import favorites
Dell
Gmail
YouTube
Maps
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
airports
bookings
flights
passengers
payments
tickets
steel_trader
test
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: passengers
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers
Run SQL query/queries on table pro-flight_reservation_system.passengers:
INSERT INTO Airlines VALUES (1, 'IndiGo', 'India'), (2, 'Emirates', 'UAE');
INSERT INTO Airports VALUES
(101, 'Chhatrapati Shivaji Intl', 'Mumbai', 'India'),
(102, 'Dubai Intl', 'Dubai', 'UAE');
INSERT INTO Flights VALUES
(201, 1, 101, 102, '2025-07-15 10:00', '2025-07-15 14:00', 180, 8500.00);
INSERT INTO Passengers VALUES
(301, 'Shrutika Kadam', 'Female', 'A1234567', 'India');
INSERT INTO Bookings VALUES
(401, 301, 201, '2025-07-10 12:00', '14A');
INSERT INTO Tickets VALUES
(501, 401, '2025-07-10 12:10', 'Confirmed');
INSERT INTO Payments VALUES
(601, 501, 8500.00, '2025-07-10 12:15', 'UPI');
passenger_id
full_name
gender
passport_no
nationality
Console
SELECT
INSERT
UPDATE
DELETE
Clear
Format
Get auto-saved query
Search
ENG
IN
08:55 PM
10-07-2025

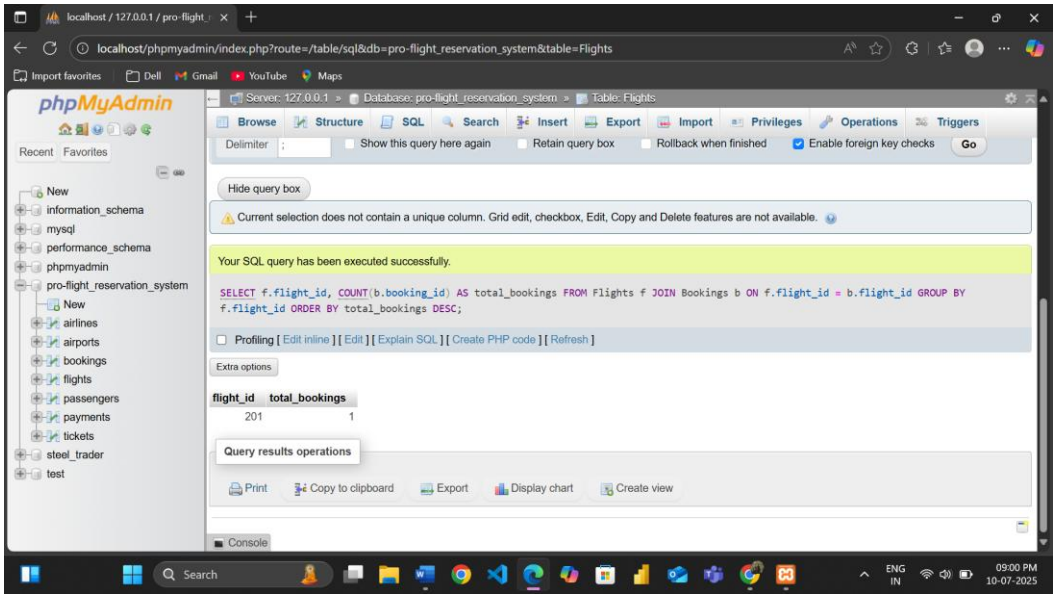

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/sql&db=pro-flight_reservation_system&table=airlines&pos=0
Import favorites
Dell
Gmail
YouTube
Maps
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
airports
bookings
flights
passengers
payments
tickets
steel_trader
test
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: airlines
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers
Showing rows 0 - 1 (2 total, Query took 0.0006 seconds.)
SELECT * FROM `airlines`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
Extra options
airline_id
name
country
Edit
Copy
Delete
1 IndiGo India
2 Emirates UAE
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Console
Search
ENG
IN
08:57 PM
10-07-2025

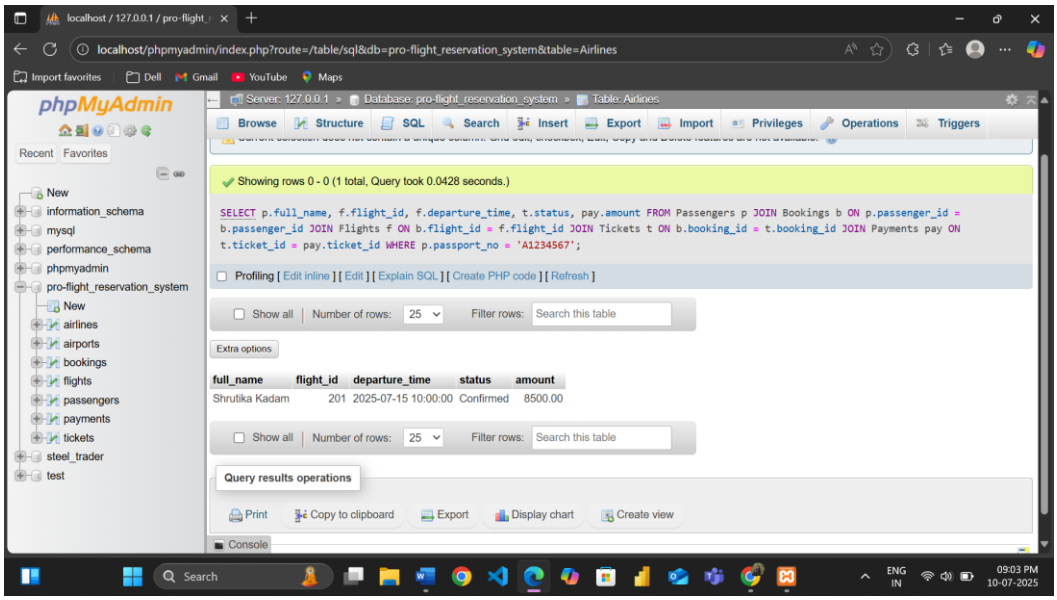

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/sql&pos=0&db=pro-flight_reservation_system&table=airports
Import favorites
Dell
Gmail
YouTube
Maps
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
pro-flight_reservation_system
New
airlines
airports
bookings
flights
passengers
payments
tickets
steel_trader
test
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: airports
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers
Showing rows 0 - 1 (2 total, Query took 0.0006 seconds.)
SELECT * FROM `airports`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key: None
Extra options
airport_id
name
city
country
Edit
Copy
Delete
101 Chhatrapati Shivaji Intl Mumbai India
102 Dubai Intl Dubai UAE
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Console
Search
ENG
IN
08:57 PM
10-07-2025

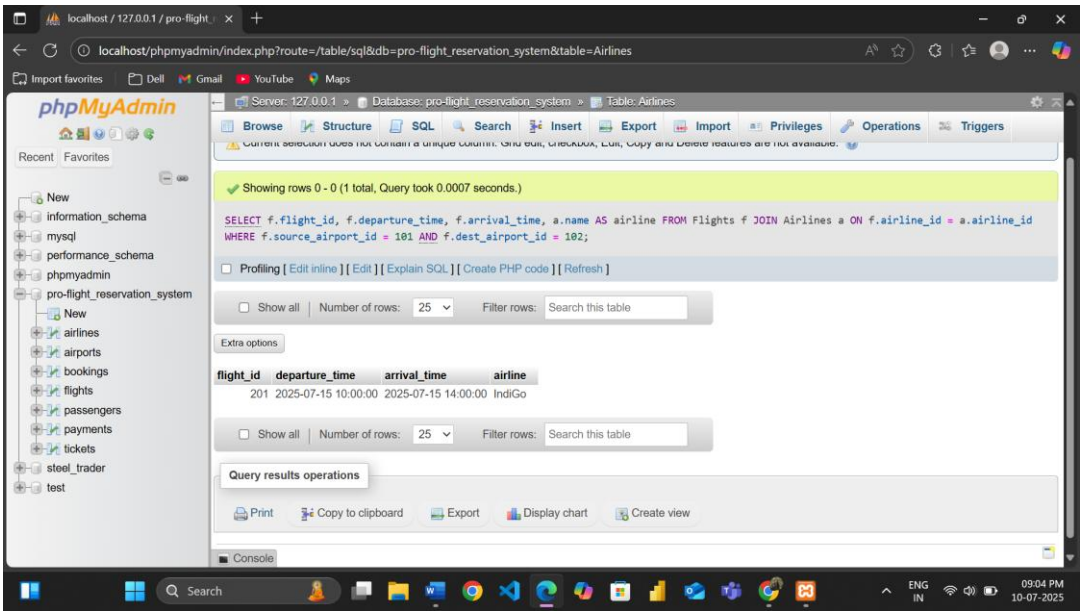

localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/sql&pos=0&db=pro-flight_reservation_system&table=passengers
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: passengers
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)
SELECT * FROM `passengers`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Extra options
passenger_id full_name gender passport_no nationality
Edit Copy Delete 301 Shrutika Kadam Female A1234567 India
Check all With selected: Edit Copy Delete Export
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
08:58 PM
10-07-2025


localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=tickets
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: Flights
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Delimiter ; Show this query here again Retain query box Rollback when finished Enable foreign key checks Go
Hide query box
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Your SQL query has been executed successfully.
SELECT f.total_seats - COUNT(b.booking_id) AS available_seats FROM Flights f LEFT JOIN Bookings b ON f.flight_id = b.flight_id WHERE f.flight_id = 201 GROUP BY f.total_seats;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Extra options
available_seats
179
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
09:00 PM
10-07-2025


localhost / 127.0.0.1 / pro-flight
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=Flights
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: Airlines
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Showing rows 0 - 0 (1 total, Query took 0.0033 seconds.)
SELECT a.name AS airline, SUM(p.amount) AS total_revenue FROM Airlines a JOIN Flights f ON a.airline_id = f.airline_id JOIN Bookings b ON f.flight_id = b.flight_id JOIN Tickets t ON b.booking_id = t.booking_id JOIN Payments p ON t.ticket_id = p.ticket_id GROUP BY a.name ORDER BY total_revenue DESC;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Extra options
airline total_revenue
IndiGo 8500.00
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
09:02 PM
10-07-2025


localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=Flights
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: Flights
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Hide query box
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Your SQL query has been executed successfully.
SELECT f.flight_id, COUNT(b.booking_id) AS total_bookings FROM Flights f JOIN Bookings b ON f.flight_id = b.flight_id GROUP BY f.flight_id ORDER BY total_bookings DESC;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Extra options
flight_id total_bookings
201 1
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
09:00 PM
10-07-2025


localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=Airlines
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: Airlines
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Showing rows 0 - 0 (1 total, Query took 0.0428 seconds.)
SELECT p.full_name, f.flight_id, f.departure_time, t.status, pay.amount FROM Passengers p JOIN Bookings b ON p.passenger_id = b.passenger_id JOIN Flights f ON b.flight_id = f.flight_id JOIN Tickets t ON b.booking_id = t.booking_id JOIN Payments pay ON t.ticket_id = pay.ticket_id WHERE p.passport_no = 'A1234567';
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 Filter rows: Search this table
Extra options
full_name flight_id departure_time status amount
Shrutika Kadam 201 2025-07-15 10:00:00 Confirmed 8500.00
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
09:03 PM
10-07-2025


localhost / 127.0.0.1 / pro-flight_
localhost/phpmyadmin/index.php?route=/table/sql&db=pro-flight_reservation_system&table=Airlines
phpMyAdmin
Server: 127.0.0.1 » Database: pro-flight_reservation_system » Table: Airlines
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)
SELECT f.flight_id, f.departure_time, f.arrival_time, a.name AS airline FROM Flights f JOIN Airlines a ON f.airline_id = a.airline_id WHERE f.source_airport_id = 101 AND f.dest_airport_id = 102;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 Filter rows: Search this table
Extra options
flight_id departure_time arrival_time airline
201 2025-07-15 10:00:00 2025-07-15 14:00:00 IndiGo
Query results operations
Print Copy to clipboard Export Display chart Create view
Console
09:04 PM
10-07-2025