

1. Write Query: Find the top 3 passengers who have spent the most on bookings.

Expected Output:

full_name | total_spent
Rahul Anand | 75000
Emily Clark | 68000
David Lee | 64000

2. Write Query: List flights where over 50% of the bookings are in Business class.

Expected Output:

flight_number | business_ratio
EM205 | 0.67
SG301 | 0.55

3. Write Query: Find passengers who have flown with the highest number of different airlines.

Expected Output:

full_name | airline_count
John Doe | 3
Priya Mehta | 2

4. Write Query: Identify airlines with the highest average fare per booking.

Expected Output:

airline_name | avg_fare
Lufthansa | 18500
Singapore Airlines | 17200

5. Write Query: Find the most frequently booked route by total bookings.

Expected Output:

origin | destination | total_bookings
Delhi | Dubai | 6

6. Write Query: List passengers who have booked in all three seat classes (Economy, Business, First).

Expected Output:

full_name

Emily Clark
Anna Müller

7. Write Query: Show the top 3 most profitable flights based on total fare collected.

Expected Output:

flight_number | total_revenue
LH309 | 55000
EM701 | 49000
IN205 | 48000

8. Write Query: Find passengers who booked flights with at least 3 different nationalities.

Expected Output:

full_name | unique_nationalities_encountered
David Lee | 4

9. Write Query: Show each airline's most popular destination.

Expected Output:

airline_name | destination | booking_count
IndiGo | Dubai | 4
Emirates | London | 3

10. Write Query: List flights where all bookings are either Confirmed or Checked-In (none Cancelled).

Expected Output:

flight_number | status_count
IN206 | 5
SG707 | 3

11. Write Query: Identify the busiest travel day (based on booking date).

Expected Output:

booking_date | total_bookings
2024-08-22 | 7

12. Write Query: Find passengers whose average fare is above the global average fare.

Expected Output:

full_name | avg_fare
Takeshi Yamamoto | 15000
Fatima Zahra | 17000

13. Write Query: Show route-wise ranking of total fare collected (partitioned by origin).

Expected Output:

origin | destination | total_fare | rank

Delhi | Dubai | 52000 | 1

Delhi | Singapore | 41000 | 2

14. Write Query: Find the top nationality in terms of total booking revenue.

Expected Output:

nationality | total_fare

India | 130000

USA | 96000

15. Write Query: List passengers who never canceled a booking and always chose Business class.

Expected Output:

full_name

Carlos Rivera

Anna Müller