

Medium Level (1–30)

Each assignment includes:

- **Write Query:** Task description
 - **Expected Output:** Sample columns and results
-

1. Write Query: List all flights that are currently delayed.

Expected Output:

```
flight_number | origin | destination | status
IN205 | Delhi | Dubai | Delayed
EM601 | Frankfurt | Mumbai | Delayed
```

2. Write Query: Find the total number of bookings per airline.

Expected Output:

```
airline_name | total_bookings
IndiGo | 6
Emirates | 5
```

3. Write Query: Show the total fare collected by each airline.

Expected Output:

```
airline_name | total_revenue
IndiGo | 145000.00
Emirates | 132500.00
```

4. Write Query: List passengers who have booked more than 1 flight.

Expected Output:

```
full_name | total_bookings
Rahul Anand | 2
Emily Clark | 3
```

5. Write Query: Get average fare per seat class.

Expected Output:

```
seat_class | average_fare
Economy | 8500.00
Business | 16000.00
First | 28000.00
```

6. Write Query: List all flights operated by Emirates.

Expected Output:

flight_number | origin | destination
EM507 | Dubai | London
EM601 | Frankfurt | Mumbai

7. Write Query: Get passenger names who have travelled to Frankfurt.**Expected Output:**

full_name
Carlos Rivera
Priya Mehta

8. Write Query: Find the most booked destination.**Expected Output:**

destination | total_bookings
Dubai | 5

9. Write Query: Show flight-wise total fare collected.**Expected Output:**

flight_number | total_fare
IN205 | 52000.00
LH302 | 41000.00

10. Write Query: List all flights from India-based airlines.**Expected Output:**

flight_number | airline_name | origin
IN205 | IndiGo | Delhi
IN309 | IndiGo | Mumbai

11. Write Query: Count passengers by seat class.**Expected Output:**

seat_class | passenger_count
Economy | 12
Business | 5
First | 3

12. Write Query: Get average fare paid by passengers from each nationality.**Expected Output:**

nationality | avg_fare

India | 8700.00
USA | 13500.00

13. Write Query: List flights that have more than 2 confirmed bookings.

Expected Output:

flight_number | total_confirmed
EM601 | 3
LH109 | 4

14. Write Query: Count number of bookings per passenger per seat class.

Expected Output:

full_name | seat_class | booking_count
Rahul Anand | Economy | 2
Emily Clark | Business | 1

15. Write Query: List all airlines operating international routes.

Expected Output:

airline_name
Emirates
Lufthansa

16. Write Query: Show number of bookings for each flight by status.

Expected Output:

flight_number | status | count
IN205 | Confirmed | 2
IN205 | Checked-In | 1
LH302 | Cancelled | 2

17. Write Query: List the top 5 destinations with the highest number of bookings.

Expected Output:

destination | bookings
Dubai | 5
London | 4
Frankfurt | 4
Singapore | 3
New York | 2

18. Write Query: Get average fare per flight.

Expected Output:

flight_number | avg_fare
IN205 | 10000.00
EM507 | 15500.00

19. Write Query: Show number of bookings made on each date.**Expected Output:**

booking_date | total_bookings
2024-08-20 | 4
2024-08-21 | 3

20. Write Query: List passengers who have booked the same flight more than once.**Expected Output:**

full_name | flight_number | booking_count
Rahul Anand | IN205 | 2

21. Write Query: Get most frequent route per airline.**Expected Output:**

airline_name | route | total_flights
IndiGo | Delhi → Dubai | 3
Lufthansa | Frankfurt → Tokyo | 2

22. Write Query: Find average fare by gender.**Expected Output:**

gender | avg_fare
Male | 11500.00
Female | 10500.00

23. Write Query: List total number of distinct destinations per airline.**Expected Output:**

airline_name | destination_count
Emirates | 4
IndiGo | 3

24. Write Query: Show how many passengers flew from each origin city.**Expected Output:**

origin | passenger_count

Delhi | 8
Dubai | 6

25. Write Query: Identify busiest booking date overall.

Expected Output:

booking_date | total_bookings
2024-08-21 | 6

26. Write Query: List average and maximum fare per airline.

Expected Output:

airline_name | avg_fare | max_fare
IndiGo | 9500.00 | 30000.00
Lufthansa | 11200.00 | 28000.00

27. Write Query: Count the number of canceled bookings per airline.

Expected Output:

airline_name | cancelled_count
Emirates | 2
Singapore Airlines | 1

28. Write Query: Show bookings grouped by class and status.

Expected Output:

seat_class | status | count
Economy | Confirmed | 5
Business | Cancelled | 1

29. Write Query: List passengers who booked flights departing from Tokyo.

Expected Output:

full_name | origin
David Lee | Tokyo
Anna Müller | Tokyo

30. Write Query: Get the total number of unique passengers per destination.

Expected Output:

destination | unique_passengers
Dubai | 5
Frankfurt | 4