# OYO Business Analyst Interview Questions:

## Python Questions [Dataset](https://drive.google.com/drive/folders/12J03mvOiON_bNrdC2Kb4qnXRost5WEKm?usp=drive_link)

1. Write a Python function to calculate the revenue generated per city from a dataset of hotel bookings stored in a CSV file. Each row contains columns: city, room\_price, and number\_of\_nights.

2. Write a Python program to find the city with the highest growth in bookings month-over-month using a dataset with columns: city, booking\_date, and number\_of\_bookings.

3. Create a Python script to calculate the percentage of cancellations for each property from a dataset containing columns: property\_id, booking\_status (confirmed/cancelled).

4. Write a Python function to identify properties with unusually high cancellation rates using the Z-score method on the cancellation percentage.

5. Write a Python program to plot a bar chart showing the top 5 cities by total revenue using Matplotlib or Seaborn.

## SQL Questions

1. Write an SQL query to calculate the total revenue generated by each city. Assume a bookings table with columns: city, room\_price, and number\_of\_nights.

2. Write an SQL query to find customers who made more than 3 bookings in the last year. Use a bookings table with columns: customer\_id and booking\_date.

3. Write an SQL query to calculate the cancellation rate for each property. Use a bookings table with columns: property\_id, booking\_id, and booking\_status (confirmed/cancelled).

4. Write an SQL query to find the month with the highest revenue for each city. Assume a bookings table with columns: city, revenue, and booking\_date.

5. Write an SQL query to find properties with occupancy rates greater than 90%. Assume a properties table with columns: property\_id, total\_rooms, and occupied\_rooms.