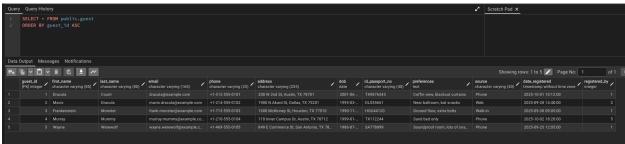
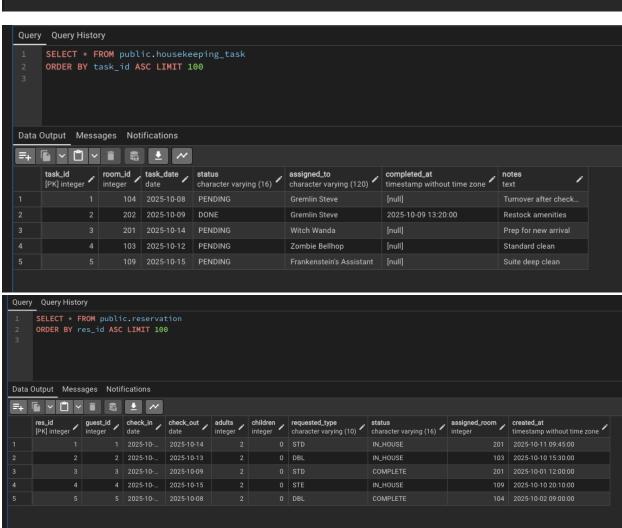
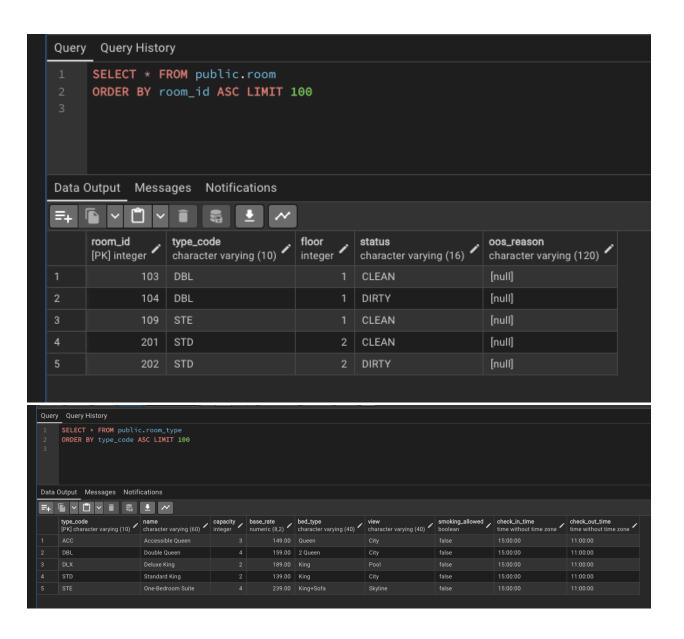
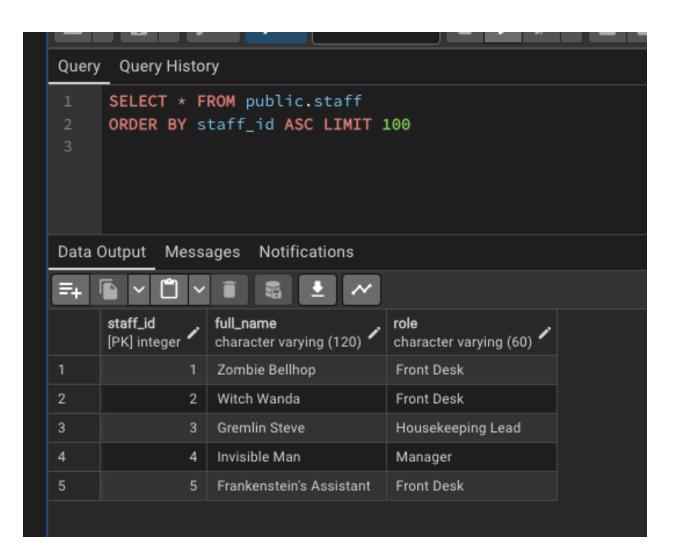
## Project 5

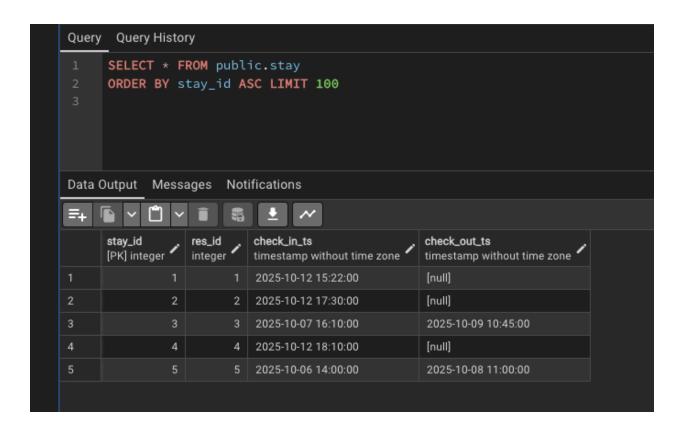
## 5.A-B) Display all tables with normalization











## 5.C) Creating 15 queries in English Sentence

- 1. List today's arrivals with guest name, party size, requested type, assigned room, and whether the room is CLEAN and not OOS.
- 2. List dirty rooms with no housekeeping task pending today.
- 3. List bookings with status BOOKED and check-in within the next 3 days, ordered by check-in then created at.
- 4. List room counts by room type and status for today (CLEAN, DIRTY, OOS, OCCUPIED).
- 5. List clean and vacant rooms with the date of their next reservation (or "None"), ordered by earliest next reservation.
- 6. List housekeeping tasks assigned to staff whose role is Front Desk, grouped by staff with counts and latest completion time.
- 7. List OOS rooms with reason and number of days OOS, ordered by longest OOS first.
- 8. List guests and their total completed stays, showing only guests with at least 2 completed stays.
- 9. List reservations where adults + children exceed the capacity of the assigned room type.

- 10. List rooms that have a same-day check-out and check-in today, with a flag showing if the room is currently CLEAN.
- 11. List reservations cancelled or no-show in the last 30 days, grouped by status with counts and percentages of total created in that period.
- 12. List occupancy percentage for a given date overall and by room type, using rooms\_sold ÷ (total\_rooms rooms\_OOS).
- 13. List housekeeping staff by name with the number of DONE tasks yesterday and the median task completion time.
- 14. List rooms with overlapping reservations, showing the two res\_id values and guest names.
- 15. List top 5 guests by total nights stayed in the last 90 days, including their email and phone.