

Hotel DB Queries & Data Entry:

One of the easiest ways to check your database structure is to use it! Therefore, we've put together some recommendations on business data and queries that you should implement to see how easy it is to use your newly created database!

Test Data:

- You must add at least 20 unique reservation dates, with
- Some dates having multiple bookings.
- You must add at least 10 unique customers.
- You should include promotions (both used and unused).
- Some rooms should have at least a couple of amenities
- Bills should have add-ons for a subset of rooms associated with the bill.

Test Queries:

You must pick 3 (or more!) of the following to DEMO Tuesday:

- Write a query that returns a list of reservations that end tomorrow
bonus: that also don't have a bill issued
- Write a query that returns all the rooms reserved for a particular customer
bonus: instead query based on promotional code
- Write a query that returns a list of promotion codes, and the number of times used.
bonus: allow me to specify a date range
- Write a query that returns the 3 most expensive bills upcoming in the next month
bonus: allow me to specify a customer
- Write a query that returns rooms that do not contain a specific amenity
bonus: also order by cheapest & not reserved
- Write a query that returns all the rooms available for a date range
bonus: allow me to also specify room type

Consider this...

The design of your database should be shaped by the customer and their data. Every table, and relationship choice determines what can and cannot be tracked.

Therefore, every time you decide on a placement of a field, a relationship or a table structure – question what that means, and what it would mean to place it elsewhere.

In line with that – we’ve prepared a few questions about your hotel that you should ask, and how that might affect your data model.

In your model ...

- Can I identify all info needed to tell a customer their room ...?
Even if the hotel had multiple floors? If it was a chain and had multiple hotels?
- Can promotions handle a 10% increase, or a 100\$ discount?
Can I pull a bill by reservation? By room? By customer?
- How can I print a complete invoice for a customer?
- If room #20 orders 3 bottles of champagne over 3 different days during their stay...
how does that appear on their bill?
- If I decide to do a rate hike on my housekeeping service, or stop offering valet...
will this effect my archived bills & old records? Will it keep track of the old rates?
- How are rooms priced? Base rate for all? By type? By bed size, or things in it?
Or maybe even the location in the hotel? (Kingsized bed room vs pent house)?
- What happens if I cancel a reservation?
- Can a wedding party have many rooms on the same reservations?
Can they arrive and leave on different days?
- Can I track 2 HD tvs in a room, or other multiple amenities?
Can the room TYPE change every change?
- Are guests allowed to use multiple promotion codes? Per reservation? Per room?
Can I waive the price of an amenity or addon?
(ex: can I offer a free bottle of champagne or a free king bed upgrade?)
- Can I split a bill across customers? Can I track what/how they paid?