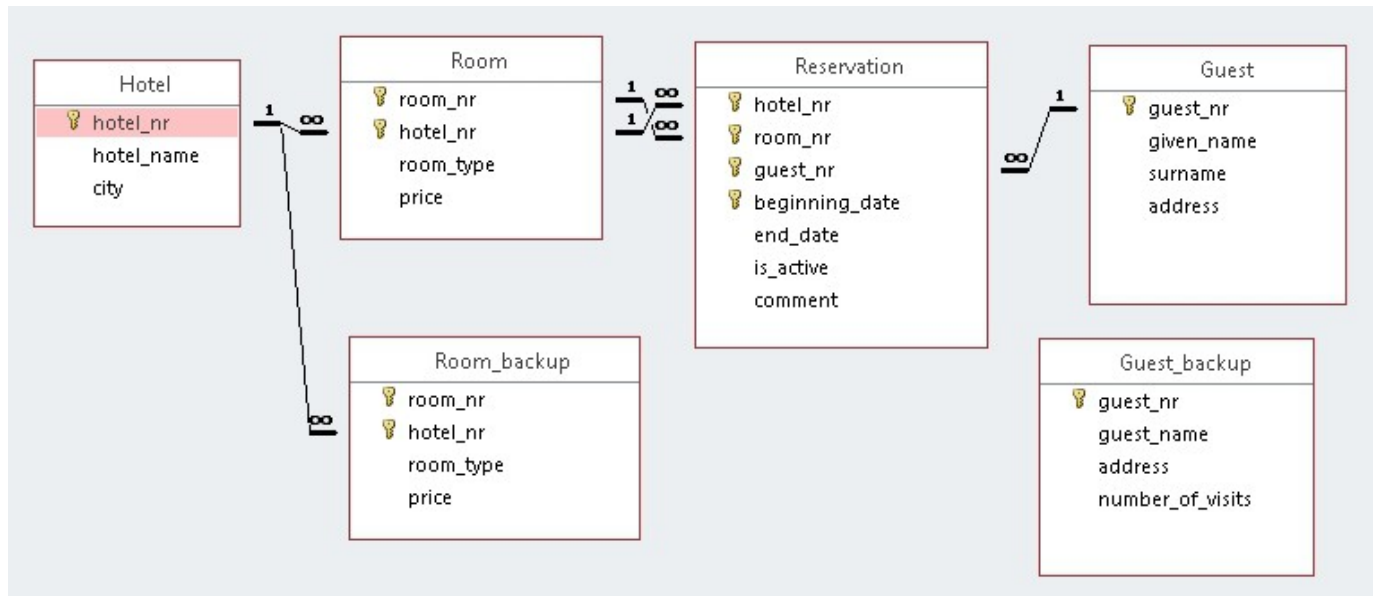


SQL Exercise 3

Database that is created by using MS Access: *Hotel* (**Hotel.mdb**). The structure of the base tables (tables in short) is the following.



All the presented tasks must be solved by using SQL statements. One can use multiple statements for solving a task if not stated otherwise. Save the statements in the MS Access database – for each statement you have to create a separate query object. Use the naming like *Task00*, *Task01*, *Task02* etc.. If the solution involves more than one SQL statement, then use the names like *Task01_1*, *Task01_2*, etc.

20. Delete (drop) the column *comment* from the table *Reservation_backup*.
21. Drop the table *Reservation_backup*.
22. Modify the data of a guest with number 5 so that new address is "Tallinn, Ristiku 22-3". Do it only if the guest has no reservations that have started during the last 300 days.
23. Find distinct given names from the table *Guest* (repeating rows must be removed from the result).
24. Find the numbers of guests who have made more than two reservations.
25. Find all the data of all the guests who have made the biggest number of reservations. In addition to the data of guests, present also the number of their reservations.
26. Find all the pairs of guests and hotels where the corresponding guest *has never made a reservation* in the corresponding hotel. In the result of the query there must be guest numbers, surnames of guests, hotel numbers, and names of hotels. Sort the result based on the guest numbers in the ascending order.

27. Find the number of distinct given names from the table *Guest*. The result of the query must be a table with one column with the name *cnt*. Consider only rows where the given name is not missing.
28. Create the table *Person* with the following columns.
 - *personal_code* – column with the type VARCHAR, maximal number of characters in a field of the column can be 11;
 - *date_of_birth* – column with the type DATE;
 - *comment* – column with the type MEMO for the registration of long comments;
 - *is_active* – column with the type YESNO for the registration of truth values. The default value is TRUE.

All the columns must be mandatory. The primary key of the table must involve the column *personal_code*.

29. Find the union of the beginning dates and the end dates of reservations. The resulting table should not contain repeating rows. The result of the query must be a table with one column with the name *reserv_date*. Sort the result based on the dates in the descending order.