

CSCI 332 Database Concepts

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Assignment 1 -Basic Concepts -Due September 4, 2020

Consider the Hotel-Room-Booking-Guest database described in the exercise section at the bottom of page 118 of your textbook. All of the primary keys (some of which are compound) are shown underlined in this schema.

1. Based on the schema specification given, produce some sample tables for each of the Hotel, Room, Booking, and Guest tables. You must have at least three tuples in the Hotel relation, seven in the Room Relation, 10 in the Booking relation, and five in the Guest relation. Furthermore:
 - Your sample data must fully illustrate the role of the primary key attribute(s) especially in the case where there are compound keys.
 - Your sample data must illustrate the foreign keys present.
2. From the schema given produce a detailed schema of the type described on pages 7 and 8 of your notes. In particular, you will have to determine appropriate types for each attribute, and whether a data value is required for the attribute, or not.
 - Your sample data's various types must be consistent with your sample data in problem 1.
3. For the two relations with compound primary keys, redesign the relation so that it uses a single-attribute primary key. Each relation must still retain all of the attributes that were part of the compound key, only now they are no longer compound key attributes. Once again, use the detailed schema format from pages 7 and 8 of your notes.