W1D2 – LESSON2, Part 1 ASSIGNMENT:

In this assignment, you are required to implement solution for the following:

1. The following tables form part of a database held in a relational DBMS:

   Hotel (**hotelNo**, hotelName, city)
   Room (**roomNo**, **hotelNo**, type, price)
   Booking (**hotelNo**, **guestNo**, **dateFrom**, dateTo, roomNo)
   Guest (**guestNo**, guestName, guestAddress)

   where,

   - Hotel contains hotel details and hotelNo is the primary key;
   - Room contains room details for each hotel and (roomNo, hoteINo) forms the primary key;
   - Booking contains details of bookings and (hoteINo, guestNo, dateFrom) forms the primary key;
   - Guest contains guest details and guestNo is the primary key.

     a. Identify the foreign keys in this schema.
     b. Explain how the entity and referential integrity rules apply to these relations.
     c. Produce some sample tables for these relations that observe the relational integrity rules.
     d. Suggest some general constraints that would be appropriate for this schema.
     e. Analyze the RDBMS that you are currently using (e.g. MySQL). Determine the support the system provides for primary keys, foreign keys, relational integrity, and views. Analyze the RDBMS that you are currently using. Determine the support the system provides for primary keys, foreign keys, relational integrity, and views.
     f. Implement the above schema in your MySQL RDBMS.

2. …