

Question:

You are required to design a **Hotel Booking System** that will be used to manage hotel room reservations.

This system should include the main entities involved in the booking process such as **Customer**, **Room**, **Booking**, and **Hotel**.

Answer the following questions:

Define the purpose of the system. What are its main goals?

Identify and describe the key entities (*Customer*, *Room*, *Booking*, *Hotel*) and the relationships between them.

Draw an **ERD (Entity-Relationship Diagram)** to show how these entities are connected.

Map the entities to relational database tables (i.e., write the relational mapping with primary and foreign keys).

Write at least **three MySQL statements** to create the tables for any three of these entities.