

# Assignment 4

1. Explain the difference between a **weak** and a **strong** entity set. Use an example other than the one in Chapter 6 to illustrate. (Consult Ch. 6, 6.5.3)

- A **weak entity set** does *not* have a **primary key** of its own. Instead, it relies on an **identifying entity set** and its primary key. The relationship linking the weak entity set to its owner is called the **identifying relationship**
- A **strong entity set** has its own primary key. It does not depend on any other entity set for its key.
- Ex: a hotel is a strong entity set because we can uniquely identify it by its primary key (hotel\_Id for ex), whereas a room of that hotel would be a weak entity set because we can't uniquely identify a room without considering hotel