

# DBMS LAB ASSIGNMENT

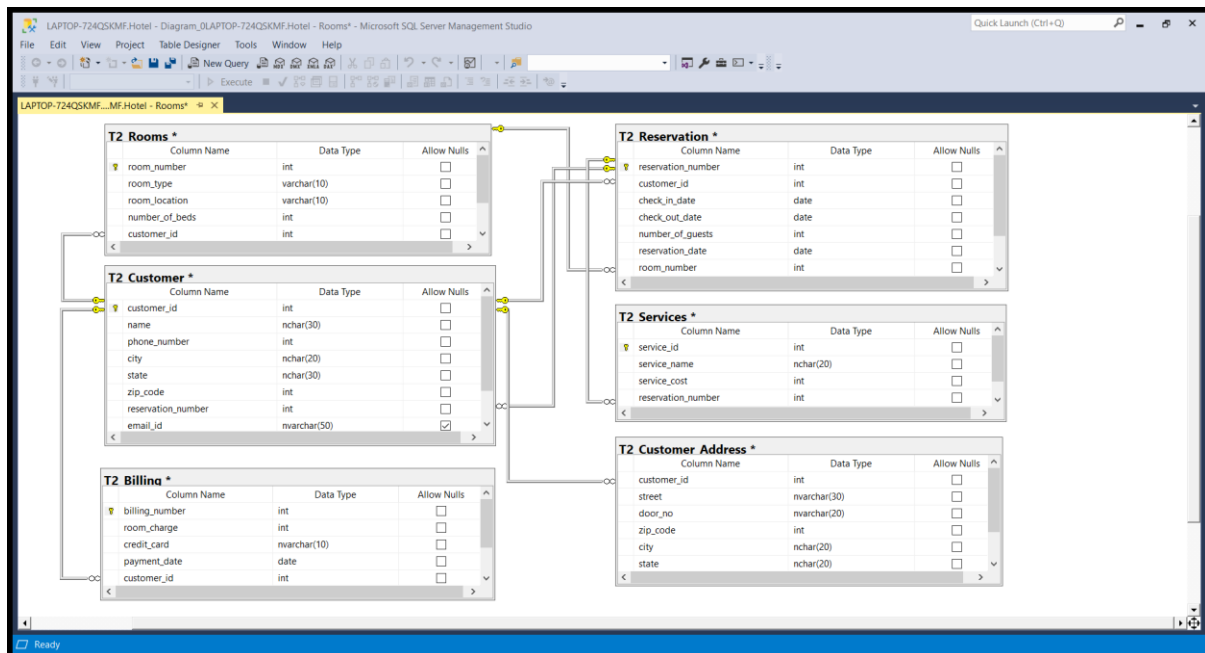
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Team No. : 2

Database : Hotel

E.R DIAGRAM :



## What is a weak entity?

In a relational database, a weak entity is an entity that cannot be uniquely identified by its attributes alone; therefore, it must use a foreign key in conjunction with its attributes to create a primary key. The foreign key is typically a primary key of an entity it is related to.

### Weak entity in our ER model :

In the below ER diagram the entity “T2\_Customer\_Address” is a weak entity because it can’t be uniquely identified with its own attributes. As we could notice that there is no separate primary key for this entity. The ‘customer\_id’ key acts as primary key and foreign key for the “T2\_Customer\_Address” entity. This entity is completely dependent on the “T2\_Customer” entity’s primary key i.e., ‘customer\_id’.

So, the entity “T2\_Customer\_Address” is the weak entity and the relation it shares with the “T2\_Customer” entity is the weak relationship.

i.e., Strong Entity: **T2\_Customer** – Independent and has a key attribute i.e., a primary key.

Weak Entity: **T2\_Customer\_Address** – Dependent and does not have a primary key.