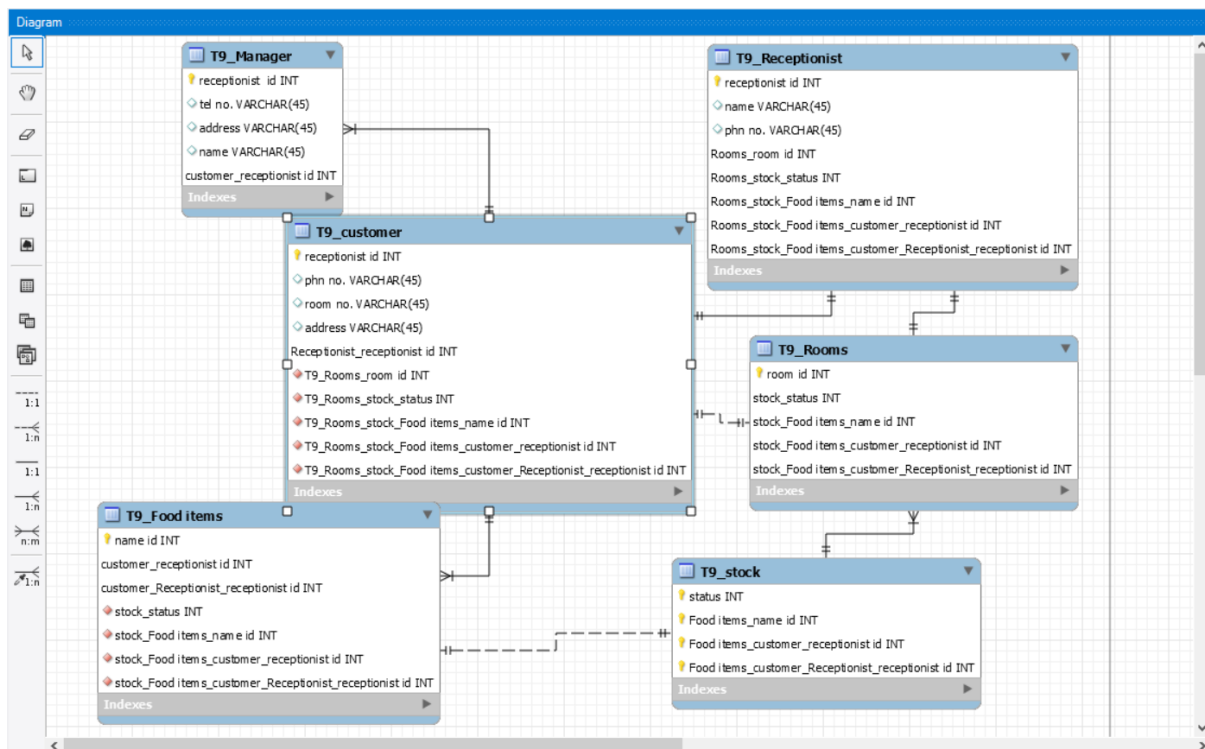# DBMS LAB ASSIGNMENT
ER DIAGRAM

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TOPIC: HOTEL DATABASE ER DIAGRAM.

GROUP NO. 9.

ER Diagram:

RELATIONSHIPS:

MANAGER - CUSTOMER: Feedback.

RECEPTIONIST - CUSTOMER : Generator bill.

RECEPTIONIST - ROOMS :   Booking.

ROOMS - CUSTOMER :   Booking (online).

FOOD ITEMS - CUSTOMER :   Order.

STOCK - FOOD ITEMS: Checking.

STOCK - ROOMS :   Checks availability.

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.

Here Stock and food items are weak entities, because Stock and food items does not have any primary key to identify itself. Stock is completely dependent on the Food items entity. The relationship between weak entity stock and Food items is Checking. Food items is dependent on Customer. The relationship between weak entity Food items and customers is Ordering.