**The entity relation diagram:**

1. Hotel ( H\_ID, H\_name , H\_Loc , H\_Policy , H\_email , H\_phone , H\_website )
2. Airline ( Air\_ID, Air\_name , Air\_Policy , Air\_email , Air\_website , Air\_phone)
3. Car\_Comp ( Comp\_id, Comp\_name , Comp\_Policy , Comp\_Email , Pickup\_Loc , Dropoff\_Loc , Comp\_website , Comp\_phone )
4. Orders (Ord\_id, Booking\_status , Products , SalesDept\_Empl , Cust\_Pref , Ord\_Date , Ord\_App , Cust\_ID)
5. Customer (Cust\_ID , Cust\_Name , Cust\_email , Cust\_phone , Cust\_address , nationality , Bank\_acc , Date\_Birth , Credit\_Worthiness )

**The weak entities:**

1. Room (H\_ID , Room\_ID , R\_Number , R\_Type , R\_Price , R\_availability , R\_Ameneties)
2. ticket (Air\_ID , Ticket\_ID , flight\_num ,Seat\_Num , dept\_Loc , Arr\_loc , Availability , Arr\_time\_stamp , dept\_time\_stamp , class , price )
3. Car ( Comp\_ID , Car\_ID , License\_Num , Model , Make , C\_Type , C\_Year , Trans\_Type , Num\_Seats , Features , Fuel\_Type , Rental\_Price )
4. Payment (Ord\_ID , Pay\_RefNum , Paid\_Amount , Status , Discount , Conditions )

**Ternary relationships:**

1. Room\_booked (Ord\_ID , Cust\_ID , H\_ID , Room\_ID)
2. Car\_rented (Ord\_ID , Cust\_ID , Comp\_ID , car\_ID )
3. ticket\_reserved ( Ord\_ID , cust\_ID , Air\_ID , ticket\_ID ,)