**The entity relation diagram:**

1. Hotel ( H\_ID, H\_Name , H\_Loc , H\_Policy , H\_Email , H\_PhoneNum , H\_Website )
2. Airline ( Air\_ID, Air\_Name , Air\_Policy , Air\_Email , Air\_PhoneNum , Air\_Website )
3. Flight ( F\_ID , F\_Num , Dept\_Loc , Dept\_date , dept\_Time , Arr\_loc , Arr\_Date , Arr\_Time , Air\_ID )
4. Car\_Comp ( Comp\_ID, Comp\_Name , Pichup\_Loc , Dropoff\_Loc , Comp\_Policy , Comp\_Email , Comp\_PhoneNum , Comp\_Website )
5. Order (Ord\_ID, Booking\_Status , Products , SalesDept\_Empl , Cust\_Pref , Ord\_Date , Ord\_App , Cust\_ID)
6. Customer (Cust\_ID , Cust\_Name , Cust\_PhoneNum , Cust\_Email , 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. Seat (F\_ID , Seat\_ID , S\_Number , S\_Pref , S\_Price , S\_Availability )
3. Car ( Comp\_ID , Car\_ID , License\_Num , Model , Make , C\_Type , C\_Year , Trans\_Type , Num\_Seats , Features , Fuel\_Type , Rental\_Price , Cust\_ID )
4. Payment (Ord\_ID , Pay\_RefNum , Paid\_Amount , Status , Discount , Conditions )

**Binary M:N relations :**

1. Travelled\_with ( Cust\_ID , Air\_ID )

**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. Seat\_reserved ( F\_ID , Seat\_ID , cust\_ID , Ord\_ID )