Case Study / Scenario

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study			
PO-c2: Develop process for complex computer science and er societal factors.	agineering problems considering cultural and Marks		

Case Study:

In the Airline Reservation System (ARS), a customer may make multiple reservations, but each reservation is linked to exactly one customer. A customer is identified by a Customer ID, which includes their name, phone number, email address, and address (composed of house number, street name, and city). Each customer can have multiple email addresses. A flight reservation is identified by a Reservation ID and linked to a specific flight. The reservation stores the reservation date, coustomer id, the number of seats booked, and the flight id. A flight is identified by a Flight ID and includes details such as the airline name, departure airport, arrival airport. Each reservation is linked to a payment. A payment includes the Payment ID, payment date, payment amount, reservation id and payment method (e.g., credit, debit, PayPal). A reservation may be made through a Booking Agent, where an agent can handle multiple reservations. Each agent is identified by an Agent ID, which includes their name and commission percentage. Each flight is assigned to a staff member (e.g., pilot or crew), and each staff member can manage multiple flights. Staff members are identified by Staff ID, which includes their name, role, contact number. Each ticket for a flight is linked to one specific seat, with seats categorized by Seat ID, Seat Class, and seat number. Additionally, each flight departs from a specific airport, identified by Airport ID, along with the airport name, city, and country.

ER Diagram:

