DAMG 6210

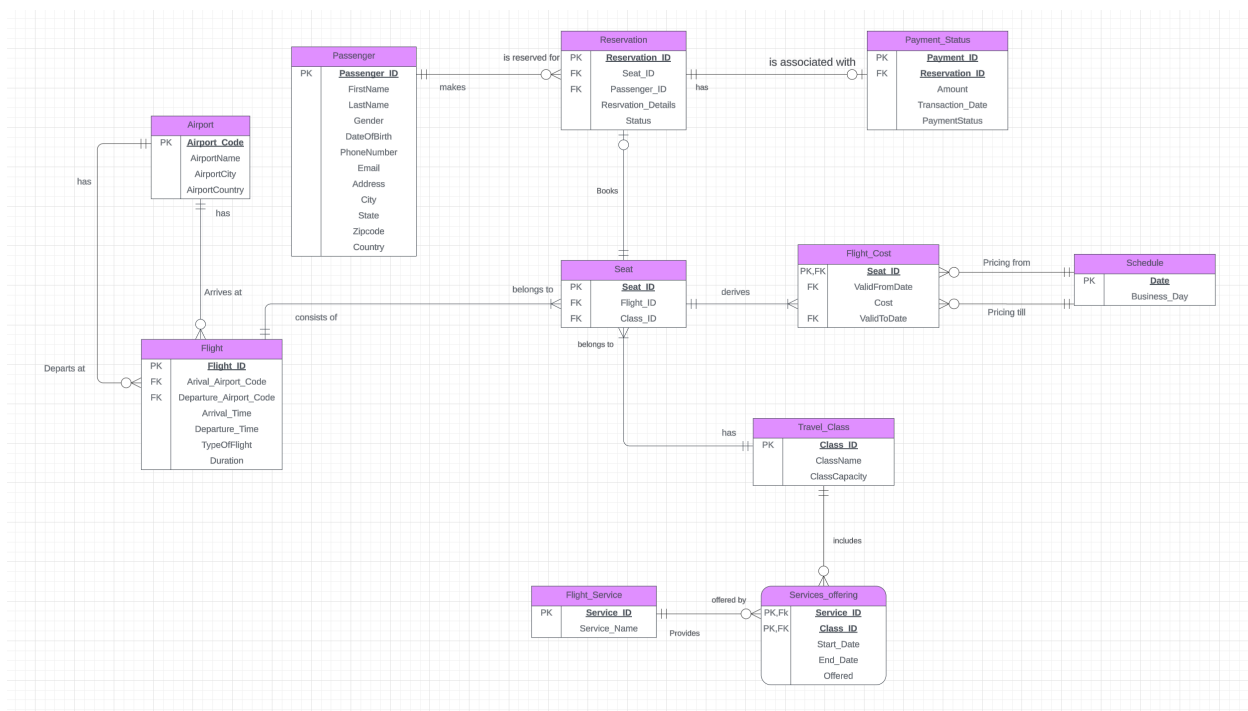**GROUP 12**

PROJECT: Streamlining Air Travel

P3 - Final ERD (Logical Model)

This is the improvised ERD with no redundancies and entities refined.

Here are the changes and enhancements compared to previous ERD:

- The Payment entity has been removed, and its attributes have been refined and added to an entity called Payment_Status. This was done by considering Reservation_ID as a foreign key in the Payment_Status block.
- The TypeOfFlight attribute has been added to the Flight entity.
- Proper attributes have been added to the Airport entity to provide specific details about airports like city, country.
- Service_Offering is now considered as an associative entity. It includes additional attributes such as Start_Date, End_Date, and Offered. Start_Date and End_Date indicates when the respective service is available, while the Offered attribute indicates if the service is offered for the

respective Travel class. Proper relationships have been established with Flight_Services and Travel_Class using foreign keys.
- The Service_Type attribute has been removed from the Flight_Service entity as it was unnecessary.
- Gate Number and Terminal attributes have been removed as they were not required for enhancement.
- Relationships have been ensured to be readable in both directions for clarity.

Revised Entities List:

Entities:

➢ Flight

➢ Airport

➢ Passenger

➢ Reservation

➢ Payment_Status

➢ Services_Offering

➢ Flight_Service

➢ Seat

➢ Travel_Class

➢ Flight_Cost

➢ Schedule