

## Group 35

### Travel Reservation System Project Schema

Account [account\_num(PK), first\_name, last\_name, username, password]

Admin [account\_num(PK, FK on Account)]

Customer\_rep [account\_num(PK, FK on Account)]

Customer [account\_num(PK, FK on Account)]

Airline [id(PK)]

Owns\_aircraft [aircraft\_number(PK), id(FK on Airline), total\_seats]

Airport [id(PK)]

Operates\_at [airline\_id(PK, FK on Airline), airport\_id(PK, FK on Airport)]

Flight [airline\_id(PK, FK on Airline), flight\_number(PK), aircraft\_number (FK on Owns\_aircraft), depart\_airport\_id(FK on Airport), destination\_airport\_id(FK on Airport), departure\_time, arrival\_time, duration, business\_fare, economy\_fare, first\_class\_fare]

Operation\_days [day(PK), airline\_id(PK, FK on Flight), flight\_number(PK, FK on Flight)]

Reserve\_Ticket[ticket\_number(PK), account\_num(FK on customer), class, purchase\_time, total\_fare, booking\_fee, economy\_cancellation\_fee, cancelled]

Portfolio [ticket\_number(PK, FK on Reserve\_Ticket), account\_num(FK on Customer)]

Flight\_instance [airline\_id(PK, FK on Flight), flight\_number(PK, FK on Flight), departure\_date(PK), business\_seats\_available, economy\_seats\_available, first\_class\_seats\_available]

Waiting\_list [airline\_id(PK, FK on Flight\_instance), flight\_number(PK, FK on Flight\_instance), departure\_date(PK, FK on Flight\_instance), account\_num(PK, FK on Customer)]

Includes [airline\_id(PK, FK on Flight\_instance), flight\_number(PK, FK on Flight\_instance), ticket\_number(PK, FK on Reserve\_Ticket), departure\_time, seat\_number]

Question [question\_text(PK)]

Answer [answer\_text(PK), question\_text(PK, FK on Question)]