“Flights Booking System” Functional dependencies and minimal cover

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Functional Dependencies

When working on our functional dependencies, it was clear that our set of functional dependencies coincides with the minimal cover itself, therefore we made the following table to the reader’s convenience, presenting simultaneously our set of FD’s and the minimal cover

## **Minimal cover:**

| **Reservation** | **rid** —> rDate, confirmDate, uemail |
| --- | --- |
| **User** | **uemail** —> ufirstName, ulastName, ubirthDate, passwordHash |
| **Passenger** | **passportID** —> pbirthDate, passportID, phoneNumber, pfirstName, plastName, fctype, fcid |
| **phoneNumber** —> pbirthDate, passportID, phoneNumber, pfirstName, plastName, fctype, fcid |
| **cin** —> pbirthDate, passportID, phoneNumber, pfirstName, plastName, fctype, fcid |
| **fcid** —> fctype |
| **Ticket** | **tid** —> seatNumber, class, price, passportID, rid, fid, fctype |
| **(fid, passportID)** —> seatNumber, class, price, passportID, rid, fid, fctype |
| **(fid, seatNumber)** —> seatNumber, class, price, passportID, rid, fid, fctype |
| **FidelityCard** | **fctype** —> reduction |
| **Flight** | **fid** —> arrivalTime, departureTime, destination, departure, registrationNumber |
| **Airplane** | **registrationNumber** —> economySeats, premiumEconomySeats, businessClassSeats, firstClassSeats, model, maxWeight, airline |
| **model** —> economySeats, premiumEconomySeats, businessClassSeats, firstClassSeats, maxweight |
| **Checks** | **(email, fid)** —> email, fid |