Pilot firstname

Pilot lastname

Pilot passport

Pilot streetnumber

Pilot streetname

Pilot city

Pilot provOrState

Pilot country

Pilot code

Pilot dob

Pilot certificationID

Pilotcert id

Pilotcert pilotid

Pilot airframeID

Airframe id

Airframe rang

Airframe seats

Airframe fuel capacity

Airframe make

Airframe mode

Airframe lastmaintenance

Flight id

Flight routeid

Flight airframeid

Flight departs

Flight duration

Flight pilotid

Flight fuelAtDep

Route id

Route depart

Route destination

Passenger firstname

Passenger lastname

Passenger passport

Passenger streetnumber

Passenger streetname

Passenger city

Passenger provOrState

Passenger country

Passenger code

Passenger dob

Passenger flight id

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1. It was not necessary to break it out as the address uniquely and entirely depends on the primary key in the pilot and passenger table. Even if two passenger or passport have the same address, they are uniquely identified as individual entities in the database. Splitting them out to a different table would most likely lead to ambiguity.
2. My thoughts would be to create a separate ‘Address table’ for all the addresses and simply assigning an Address\_ID as a primary key to each unique row. Then referencing the Address\_ID to the passenger and pilot table as a foreign key. Two reasons are;

* It would provide some sort of security to the data for each individual as personal house address is a sensitive data.
* Address of an individual is not a data that should be queried frequently.

Note: Assuming someone maliciously gains access to the database for instance just the addresses table he may not be able to effectively deduce a persons identity from just looking at the Address\_ID, nor will he be able to deduce the persons address if he gets access to the passenger or pilot table as it would be referenced as an ‘Address\_ID’ field.