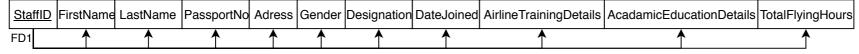
Checking for BCNF





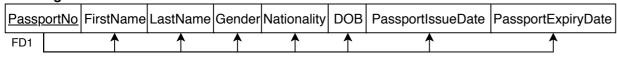
The table **Pilot** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>StaffID</u> is the super key of the table **Pilot**. Therefore the table **Pilot** is in BCNF.

FlightAttendant



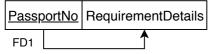
The table FlightAttendant is in 3NF. It has a functional dependency FD1 and it's determinent which is StaffID is the super key of the table FlightAttendant. Therefore the table **FlightAttendant** is in BCNF.

Passenger



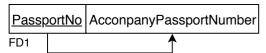
The table **Passenger** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>PassportNo</u> is the super key of the table **Passenger**. Therefore the table **Passenger** is in BCNF.

SpecialRequirements



The table SpecialRequirements is in 3NF. It has a functional dependency FD1 and it's determinent which is PassportNo is the super key of the table SpecialRequirements. Therefore the table **SpecialRequirements** is in BCNF.

Minor



The table **Minor** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>PassportNo</u> is the super key of the table **Minor**. Therefore the table **Minor** is in BCNF.

Arrival



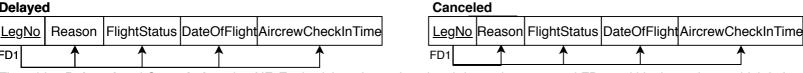
The table **Arrival** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>LegNo</u> is the super key of the table **Arrival**. Therefore the table **Arrival** is in BCNF.

Departure



The table **Arrival** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>LegNo</u> is the super key of the table **Arrival**. Therefore the table **Arrival** is in BCNF.

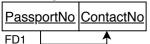
Delayed



The tables **Delayed** and **Canceled** are in 3NF. Each of them has a functional dependency named FD1 and it's determinent which is <u>LegNo</u> is the super key of the tables Delayed and Canceled.

Therefore both tables are

Passenger Contact No



The table Passenger_Contact_No is in 3NF. It has a functional dependency named FD1 but it's determinent is not the super key of the table so the table Passenger_Contact_No is not in BCNF. But the table Passenger_Contact_No cannot be divided any further so it's not possible to normalise it to BCNF.

Pilot_Contact_No StaffID ContactNo

FD1

StaffID ContactNo

FlightAttendant_Contact_No

The tables Pilot_Contact_No and FlightAttendant_Contact_No are in 3NF and each of them has a functional dependency named FD1 but it's determinent is not the super key the table it belongs. Therefore none of the tables are in BCNF. But none of the tables can be divided any further so it's not possible normalise them to BCNF.