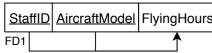
Checking for BCNF

PilotFlownAircrafts



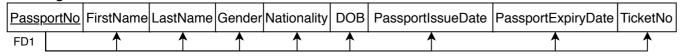
The table **PilotFlownAircrafts** is in 3NF. It has a functional dependency FD1 and it's determinent <u>StaffID AircraftModel</u> which is the composite primary key of the table is the super key of the table **PilotFlownAircrafts**. Therefore the table **PilotFlownAircrafts** is in BCNF.

FlightAttendant



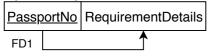
The table **FlightAttendant** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>StaffID</u> is the super key of the table **FlightAttendant**. Therefore the table **FlightAttendant** is in BCNF.

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



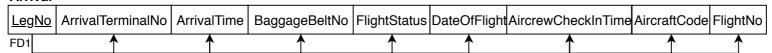
The table **SpecialRequirements** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>PassportNo</u> is the super key of the table **SpecialRequirements**. Therefore the table **SpecialRequirements** is in BCNF.

Minor



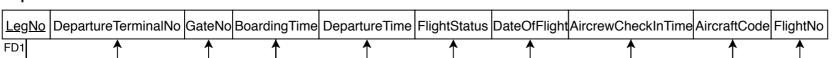
The table **Minor** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>PassportNo</u> is the super key of the table **Minor**. Therefore the table **Minor** is in BCNF.

Arrival



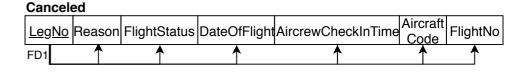
The table **Arrival** is in 3NF. It has a functional dependency FD1 and it's determinent which is <u>LegNo</u> is the super key of the table **Arrival**. Therefore the table **Arrival** is in BCNF.

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.

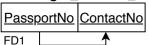




The tables **Delayed** and **Canceled** are in 3NF. Each of them has a functional dependency named FD1 and their determinents which is <u>LegNo</u> is the super key of the tables **Delayed** and **Canceled**.

Therefore both tables are in BCNF

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 **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 ↑

FlightAttendant_Contact_No
StaffID ContactNo

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.