

Checking for 3NF

Airport

<u>AirportCode</u>	AirportName	City	Country	EstablishedYear
FD1	↑	↑	↑	↑

The table **Airport** is in 2NF. It doesn't have transitive dependencies. All the non primary key attributes depend on the primary key of the table which is AirportCode. It has a functional dependency named FD1 and it's determinant is the super key of the table. Therefore the table **Airport** is in 3NF.

Airline

<u>AirlineCode</u>	AirlineName	Owner	FleetSize	Address	NoOfDestinations	HeadOfficeEmail	WebsiteURL	CommencementYear
FD1	↑	↑	↑	↑	↑	↑	↑	↑

The table **Airline** is in 2NF. It doesn't have transitive dependencies. All the non primary key attributes depend on the primary key of the table which is AirlineCode. It has a functional dependency named FD1 and it's determinant is the super key of the table. Therefore the table **Airline** is in 3NF.

Aircraft

<u>AircraftCode</u>	Name	Model	Manufacturer	MaxNoOfSeats	AirlineCode	FlightNo
FD1	↑	↑	↑	↑	↑	↑

The table **Aircraft** is in 2NF. It doesn't have transitive dependencies. All the non primary key attributes depend on the primary key of the table which is AircraftCode. It has a functional dependency named FD1 and it's determinant is the super key of the table. Therefore the table **Aircraft** is in 3NF.

Flight

<u>FlightNo</u>	FlightPath	AirlineCode	FlightType
FD1	↑	↑	↑

The table **Flight** is in 2NF. It doesn't have transitive dependencies. All the non primary key attributes depend on the primary key of the table which is FlightNo. It has a functional dependency named FD1 and it's determinant is the super key of the table. Therefore the table **Flight** is in 3NF.

Reservation

<u>TicketNo</u>	Class	SeatNo	CheckInTime	BaggageWeight	LegNo
FD1	↑	↑	↑	↑	↑

The table **Reservation** is in 2NF. It doesn't have transitive dependencies. All the non primary key attributes depend on the primary key of the table which is TicketNo. It has a functional dependency named FD1 and it's determinant is the super key of the table. Therefore the table **Reservation** is in 3NF.