

Checking for 3NF

Provide\_Services\_Airline

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

The table **Provide\_Services\_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 **Provide\_Services\_Airline** is in 3NF.

Provide\_Services\_Airport

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

The table **Provide\_Services\_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 **Provide\_Services\_Airport** is in 3NF.

Airline\_Contact\_No

<u>AirlineCode</u>	<u>ContactNo</u>
FD1	↑

The table **Airline\_Contact\_No** is in 2NF. It doesn't have transitive dependencies.  
It has a functional dependency named FD1 and it's dependent which is ContactNo is a prime attribute.  
Therefore the table **Airline\_Contact\_No** is in 3NF.

Aircrew\_Contact\_No

<u>StaffID</u>	<u>ContactNo</u>
FD1	↑

The table **Aircrew\_Contact\_No** is in 2NF. It doesn't have transitive dependencies.  
It has a functional dependency named FD1 and it's dependent which is ContactNo is a prime attribute.  
Therefore the table **Aircrew\_Contact\_No** is in 3NF.

Passenger\_Contact\_No

<u>PassportNo</u>	<u>ContactNo</u>
FD1	↑

The table **Passenger\_Contact\_No** is in 2NF. It doesn't have transitive dependencies.  
It has a functional dependency named FD1 and it's dependent which is ContactNo is a prime attribute.  
Therefore the table **Passenger\_Contact\_No** is in 3NF.

Landing

<u>FlightNo</u>	<u>AirportName</u>
FD1	↑

The table **Landing** is in 2NF. It doesn't have transitive dependencies.  
It has a functional dependency named FD1 and it's dependent which is AirportName is a prime attribute.  
Therefore the table **Landing** is in 3NF.

Take\_Off

<u>FlightNo</u>	<u>AirportName</u>
FD1	↑

The table **Take\_Off** is in 2NF. It doesn't have transitive dependencies.  
It has a functional dependency named FD1 and it's dependent which is AirportName is a prime attribute.  
Therefore the table **Take\_Off** is in 3NF.

Schedule\_Days

<u>FlightNo</u>	<u>FlightDate</u>	EstimatedArrivalTime	EstimatedDepartureTime
FD1		↑	↑

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