

Checking for BCNF

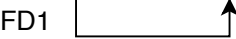
Provide\_Services

<u>AirlineCode</u>	<u>AirportCode</u>
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The table **Provide\_Services** does not have any functional dependencies. It does not have non key attributes. It is an intersection table that contains the relationship between Airline and Airport

Airline\_Contact\_No

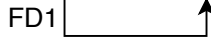
<u>AirlineCode</u>	<u>ContactNo</u>
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The table **Airline\_Contact\_No** is in 3NF. It has a functional dependency named FD1. It's determinant which is AirlineCode is the not the super key of the table **Airline\_Contact\_No**. Therefore the table **Airline\_Contact\_No** is not in BCNF. However, this table cannot be divided any further. Therefore it's not possible to normalise this to BCNF.

Landing

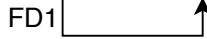
<u>FlightNo</u>	<u>AirportName</u>
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The table **Landing** is in 3NF. It has a functional dependency named FD1. It's determinant which is FlightNo is the not the super key of the table **Landing**. Therefore the table **Landing** is not in BCNF. However, this table cannot be divided any further. Therefore it's not possible to normalise this to BCNF.

Take\_Off

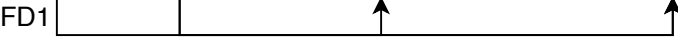
<u>FlightNo</u>	<u>AirportName</u>
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The table **Take\_Off** is in 3NF. It has a functional dependency named FD1. It's determinant which is FlightNo is the not the super key of the table **Take\_Off**. Therefore the table **Take\_Off** is not in BCNF. However, this table cannot be divided any further. Therefore it's not possible to normalise this to BCNF.

Schedule\_Days

<u>FlightNo</u>	<u>FlightDate</u>	EstimatedArrivalTime	EstimatedDepartureTime
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The table **Schedule\_Days** is in 3NF. It has a functional dependency named FD1. It's determinant which is FlightNo FlightDate is the super key of the table **Schedule\_Days**. Therefore the table **Schedule\_Days** is in BCNF.

Pilot

<u>StaffID</u>	FirstName	LastName	PassportNo	Adress	Gender	Designation	DateJoined	AirlineTraining Details	AcadamicEducation Details	TotalFlying Hours	LegNo	AirlineCode
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The table **Pilot** is in 3NF. It has a functional dependency FD1 and it's determinant which is StaffID is the super key of the table **Pilot**. Therefore the table **Pilot** is in BCNF.