

Provide_Services

| <u>AirlineCode</u> | <u>AirportCode</u> | AirlineName | Owner | FleetSize | Address | NoOfDestinations | HeadOfficeEmail | WebsiteURL | CommencementYear | AirportName | City | Country | EstablishedYear |
|--------------------|--------------------|-------------|-------|-----------|---------|------------------|-----------------|------------|------------------|-------------|------|---------|-----------------|
| FD1 | | | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |

The table **Provide_Services** is in 1NF.
All the non primary key attributes of the table **Provide_Services** depends on it's super key which is AirlineCode AirportCode.
Therefore, the functional dependency (FD1) of the table **Provide_Services** is a full functional dependency.
There are no partial dependencies so the table **Provide_Services** is in 2NF

Airline_Contact_No

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

The table **Airline_Contact_No** is in 1NF. It has no non primary key attributes.
It is already in 2NF

Landing

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

The table **Landing** is in 1NF. It has no non primary key attributes.
It is already in 2NF

Take_Off

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

The table **Take_Off** is in 1NF. It has no non primary key attributes.
It is already in 2NF

Schedule_Days

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

The table **Schedule_Days** is already in 1NF.
All the non primary key attributes of the table **Schedule_Days** depends on it's super key which is FlightNo FlightDate.
Therefore, the functional dependency (FD1) of the table **Schedule_Days** is a full functional dependency.
There are no partial dependencies so the table **Schedule_Days** is in 2NF

Pilot

| <u>StaffID</u> | FirstName | LastName | PassportNo | Adress | Gender | Designation | DateJoined | AirlineTraining Details | AcadamicEducation Details | TotalFlying Hours | LegNo | AirlineCode |
|----------------|-----------|----------|------------|--------|--------|-------------|------------|----------------------------|------------------------------|----------------------|-------|-------------|
| FD1 | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |

The table **Pilot** is in 1NF.
It has a functional dependency which is FD1 and it is a full functional dependency because all the non primary key attributes depend on the primary key which is StaffID completely.
The table **Pilot** does not have any partial functional dependencies. Therefore it's in 2NF.