# Before Normalization:

Routes(Airline ID, Source airport ID, Destination airport ID, Airline, Source airport, Destination airport, Codeshare, Stops, Equipment)

Airports(Airport ID, IATA,ICAO, Name, City, Country, Latitude, Longitude, Altitude, Timezone, DST, Tz database time zone)

Airlines(Airline ID, Name, Alias, IATA, ICAO, Callsign, Country, Active)

Airplanes(IATA code, Name, ICAO code)

# After Normalization:

**Routes(**Airline ID(Airlines), {Source airport ID, Destination airport ID}(Airports), Codeshare, Stops**)**

**Planes\_In\_Route(**{Airline ID(Airlines), {Source airport ID, Destination airport ID}(Airports)}(Routes), Equipment(Airplanes)**)**

**Airports(**Airport ID , Airport IATA+ICAO, IATA, ICAO, Name, {City, Country}(Locations), Latitude, Longitude, Altitude**)**

**Locations(**City, Country(Countries), Timezone , DST, Tz database time zone**)**

**Airlines(**Airline ID, Name, Alias, IATA, ICAO, Callsign, Country(Countries), Active**)**

**Airplanes(**IATA code, Name, ICAO code)

**Countries(**Country**)**

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