# **Delays Database Data Dictionary**

**Database information:** the database Delays, contains on-time performance of domestic flights operated by large air carriers in 2015. This database contains information about delayed, canceled, and diverted flights. The data was obtained from <https://www.kaggle.com/usdot/flight-delays#flights.csv> – A subset of the original data is given to you.

The database contains three tables, with their corresponding columns:

**MAIN\_AIRLINES:**

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| code | Airline Identifier |
| airline | Airlines's Name |

**MAIN\_AIRPORTS:**

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| acode | Airport Location Identifier |
| airport | Airport's Name |
| city | City Name of the Airport |
| state | State Name of the Airport |
| country | Country Name of the Airport |
| latitude | Latitude of the Airport |
| longitude | Longitude of the Airport |

**FLIGHTS:**

|  |  |
| --- | --- |
| **Column Name** | **Description** |
| month | Month of the Flight Trip |
| day | Day of the Flight Trip |
| day\_of\_week | Day of week of the Flight Trip |
| airline | Airline Identifier |
| flight\_number | Flight Identifier |
| tail\_number | Aircraft Identifier |
| origin\_airport | Starting Airport |
| destination\_airport | Destination Airport |
| scheduled\_departure | Planned Departure Time |
| departure\_time | Actual Departure Time |
| departure\_delay | Total Delay on Departure |
| taxi\_out | The time duration elapsed between departure from the origin airport gate and wheels off |
| wheels\_off | The time point that the aircraft's wheels leave the ground |
| scheduled\_time | Planned time amount needed for the flight trip |
| elapsed\_time | AIR\_TIME+TAXI\_IN+TAXI\_OUT |
| air\_time | The time duration between wheels\_off and wheels\_on time |
| distance | Distance between two airports |
| wheels\_on | The time point that the aircraft's wheels touch on the ground |
| taxi\_in | The time duration elapsed between wheels-on and gate arrival at the destination airport |
| scheduled\_arrival | Planned arrival time |
| arrival\_time | WHEELS\_ON+TAXI\_IN |
| arrival\_delay | ARRIVAL\_TIME-SCHEDULED\_ARRIVAL |
| diverted | Aircraft landed on airport that out of schedule |
| cancelled | Flight Cancelled (1 = cancelled) |
| cancellation\_reason | Reason for Cancellation of flight: A - Airline/Carrier; B - Weather; C - National Air System; D – Security |
| air\_system\_delay | Delay caused by air system |
| security\_delay | Delay caused by security |
| airline\_delay | Delay caused by the airline |
| late\_aircraft\_delay | Delay caused by aircraft |
| weather\_delay | Delay caused by weather |