

# Schéma : nycflights

nycflights, R-project, relationnel, pattes de corbeau, crowfoot

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⚠ Présentation du schéma `nycflights`, pour l'entraînement à PostGres.

- **L3 MIASHS/Ingémath**
- **Université Paris Cité**
- Année 2025-2026
- [Course Homepage](#)
- [Moodle](#)



Ce jeu de données est construit à partir du package  `nycflights13`.

The `nycflights13` package contains information about all flights that departed from NYC (e.g. EWR, JFK and LGA) to destinations in the United States, Puerto Rico, and the American Virgin Islands) in 2013 : 336,776 flights in total. To help understand what causes delays, it also includes a number of other useful datasets.

This package provides the following data tables.

- `flights` : all flights that departed from NYC in 2013
- `weather` : hourly meteorological data for each airport
- `planes` : construction information about each plane
- `airports` : airport names and locations
- `airlines` : translation between two letter carrier codes and names

This is a layout. You can create multiple layouts with the same or different tables. Double-click the table headers to edit.

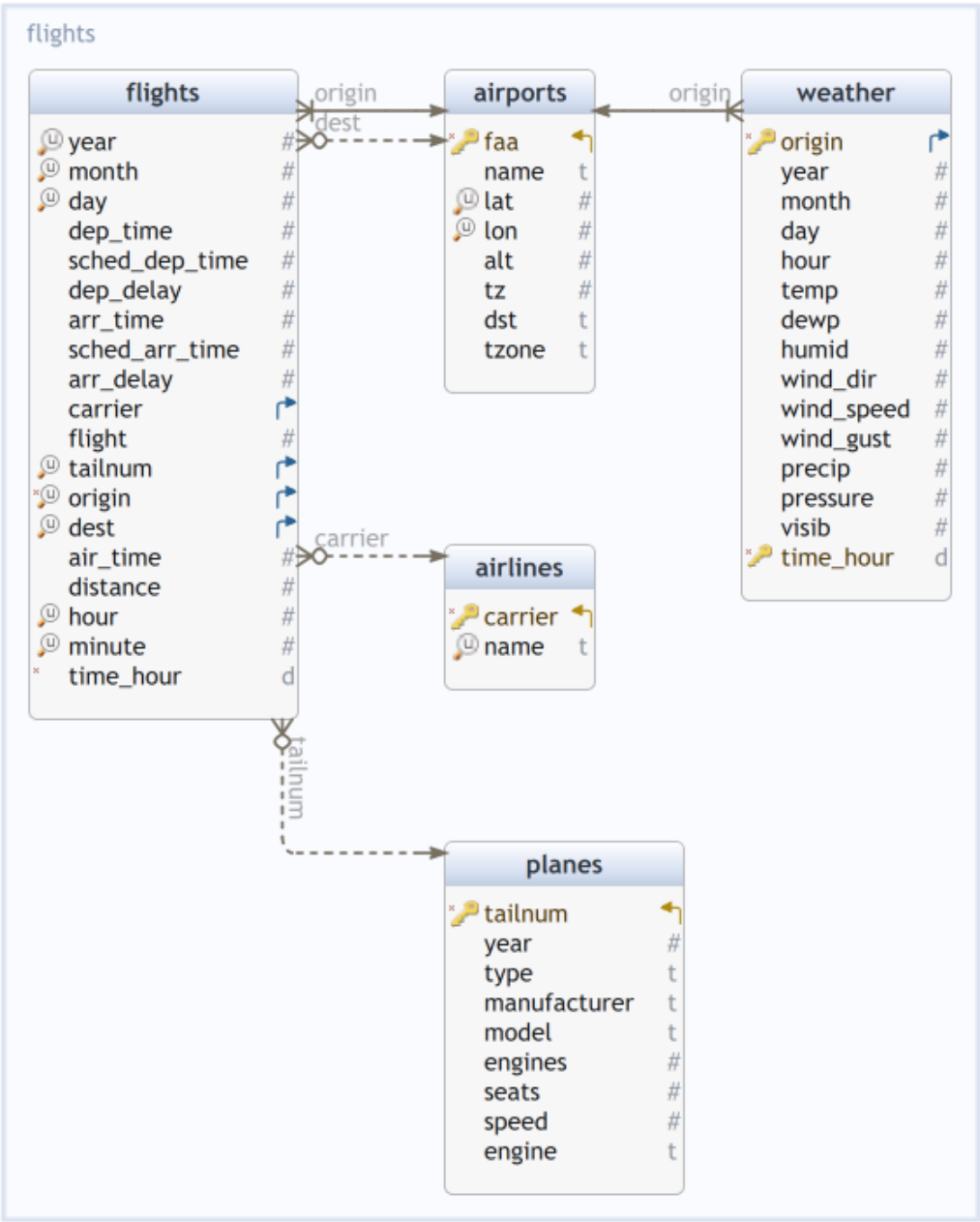


FIG. 1 : Schema nycflights Generated using [DbSchema](#)

Table nycflights.airlines

Idx	Name	Data Type
*	carrier	text
	name	text

Table nycflights.airports

Idx	Name	Data Type
*	faa	text
	name	text
	lat	double precision
	lon	double precision
	alt	double precision
	tz	double precision
	dst	text
	tzone	text

Table nycflights.flights

Idx	Name	Data Type
	year	integer
	month	integer
	day	integer
	dep_time	integer
	sched_dep_time	integer
	dep_delay	double precision
	arr_time	integer
	sched_arr_time	integer
	arr_delay	double precision
	carrier	text
	flight	integer
	tailnum	text
*	origin	text
	dest	text
	air_time	double precision
	distance	double precision
	hour	double precision
	minute	double precision
*	time_hour	timestampz

✎ **distance** est la distance orthodromique (*earth distance*) entre **origin** et **dest** en miles (pas en miles nautiques). On peut le vérifier avec les fonctions de l'extension **earthdistance**.

✎ le vol est effectué si **dep\_time** n'est pas NULL

✎ **dep\_time**, **sched\_dep\_time**, **arr\_time**, **sched\_arr\_time** sont construits de la façon

### Foreign Keys

Type	Name	On
	flights_fk	( carrier ) ref nycflights.airlines (carrier)
	flights_fk_planes	( tailnum ) ref nycflights.planes (tailnum)
	flights_fk_origin	( origin ) ref nycflights.airports (faa)

Type	Name	On
	flights_fk_dest	( dest ) ref nycflights.airports (faa)

**Table nycflights.planes**

Idx	Name	Data Type
*	tailnum	text
	year	integer
	type	text
	manufacturer	text
	model	text
	engines	integer
	seats	integer
	speed	integer
	engine	text

**Table nycflights.weather**

Idx	Name	Data Type
*	origin	text
	year	integer
	month	integer
	day	integer
	hour	integer
	temp	double precision
	dewp	double precision
	humid	double precision
	wind_dir	double precision
	wind_speed	double precision
	wind_gust	double precision
	precip	double precision
	pressure	double precision
	visib	double precision
*	time_hour	timestampz

**Foreign Keys**

Type	Name	On
	weather_fk	( origin ) ref nycflights.airports (faa)