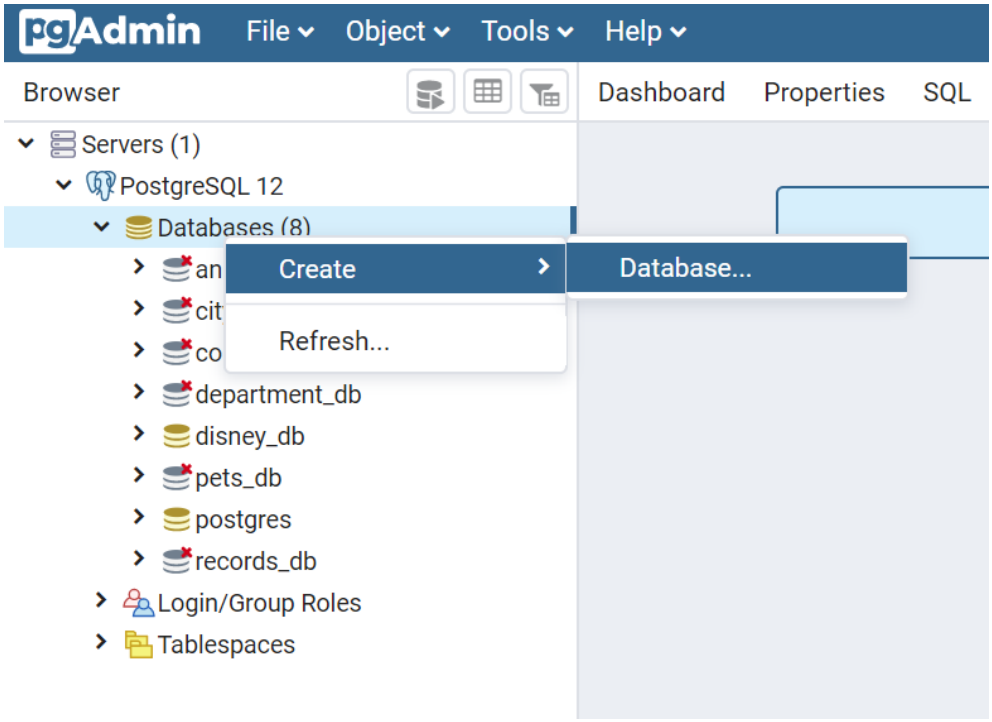
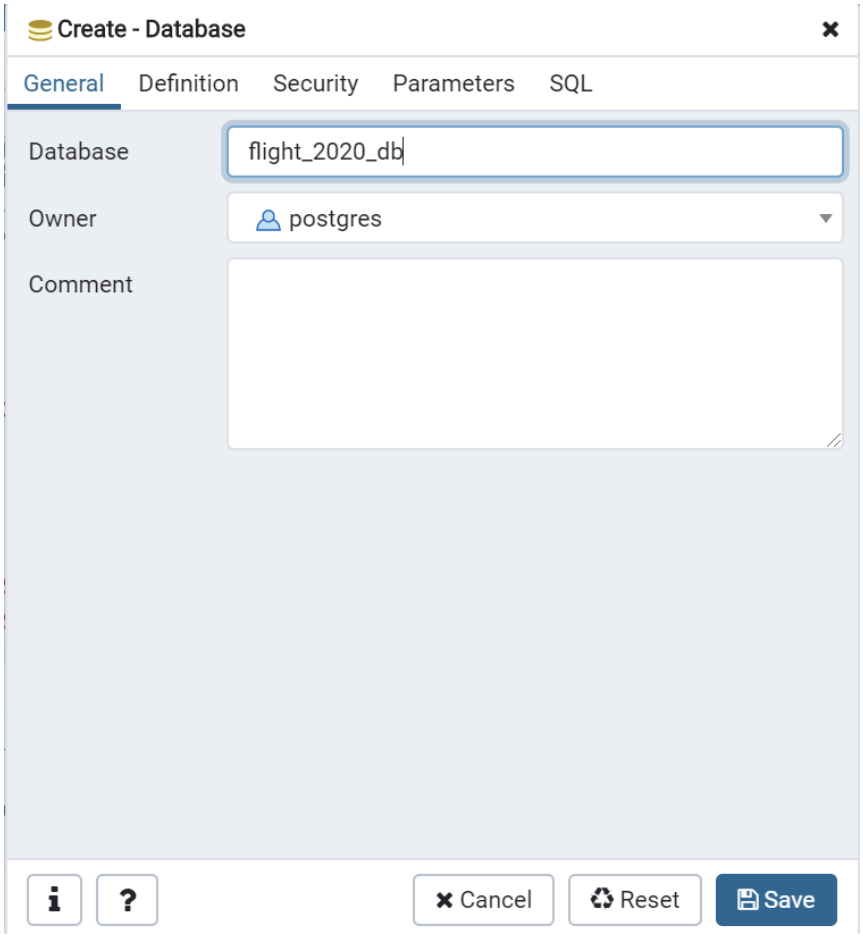
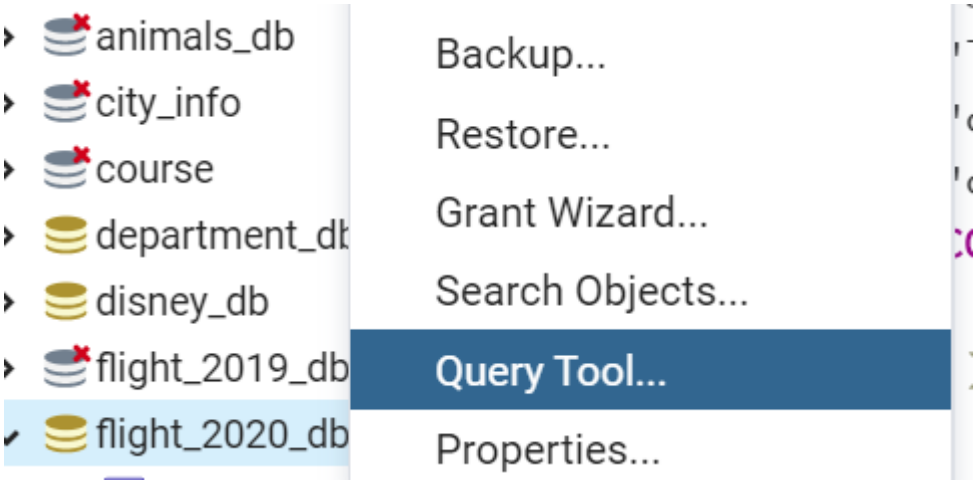
Step1: create a database for 2020



Then:



Step 2: Create tables by using a query tool



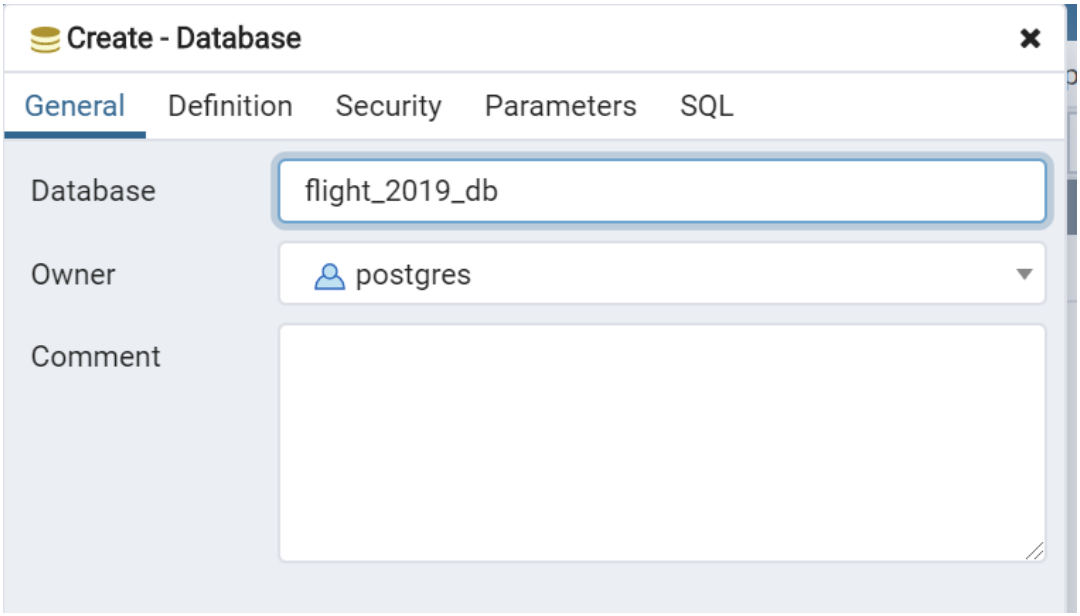
Copy & paste code from SQL_Schema.sql and run it!

flight_db/postgres@PostgreSQL 12

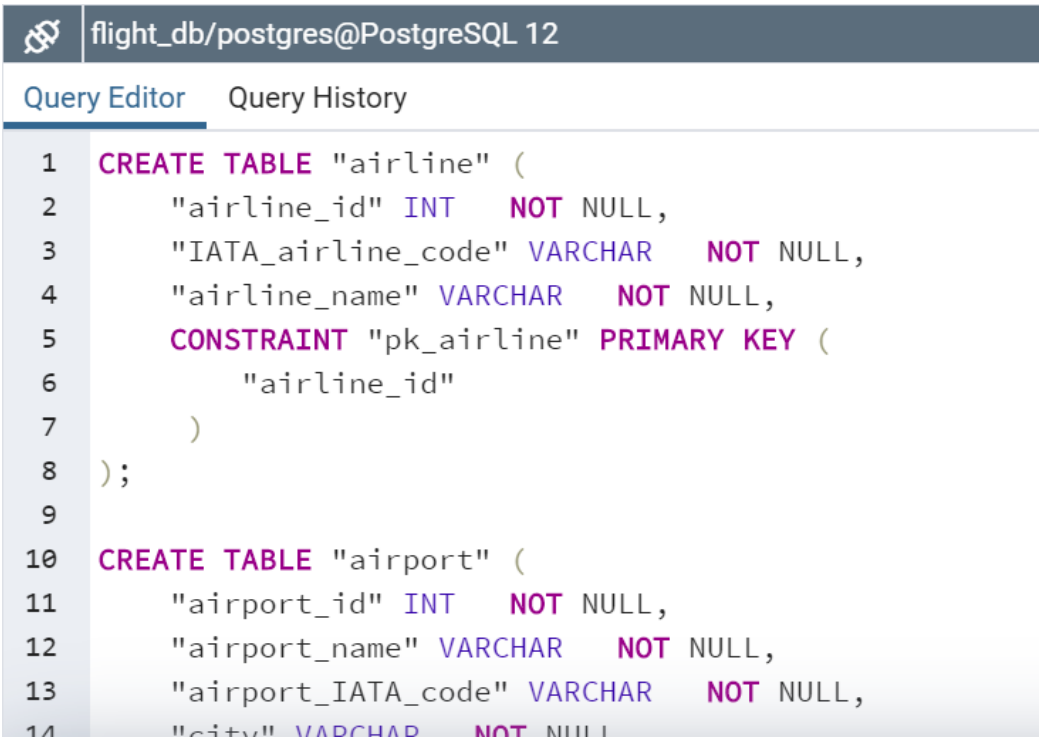
Query Editor | Query History

```
1  CREATE TABLE "airline" (
2      "airline_id" INT   NOT NULL,
3      "IATA_airline_code" VARCHAR   NOT NULL,
4      "airline_name" VARCHAR   NOT NULL,
5      CONSTRAINT "pk_airline" PRIMARY KEY (
6          "airline_id"
7       )
8  );
9
10 CREATE TABLE "airport" (
11     "airport_id" INT   NOT NULL,
12     "airport_name" VARCHAR   NOT NULL,
13     "airport_IATA_code" VARCHAR   NOT NULL,
14     "city" VARCHAR   NOT NULL
```

Step3: create another database for 2019



Open a query tool -> Copy & paste code from SQL_Schema.sql -> run it!

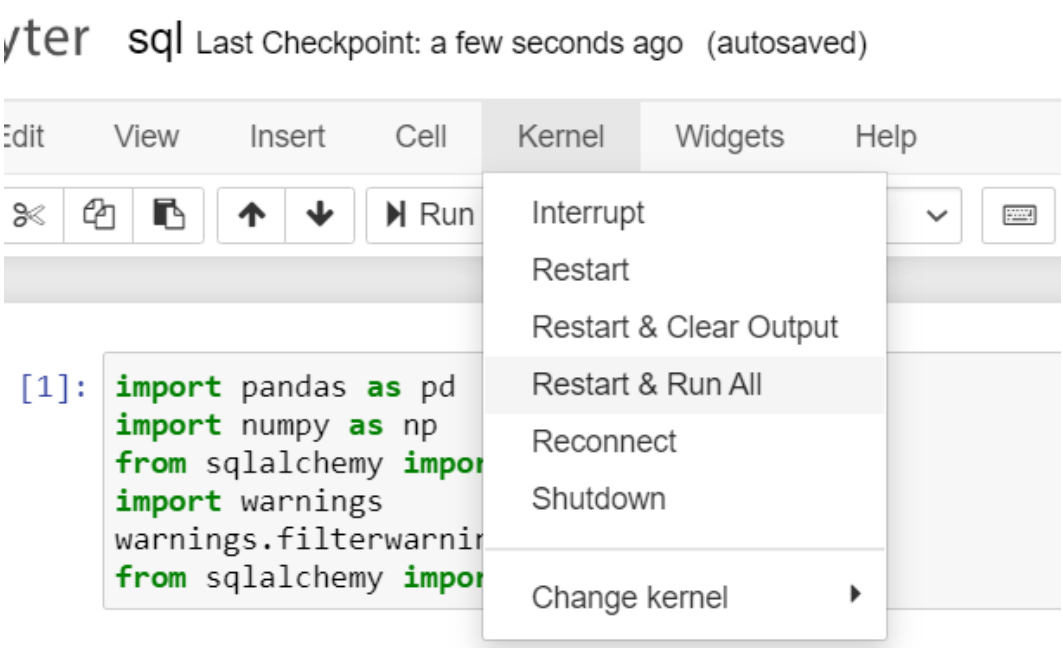


Step 4: Open the sql.ipynb and change the code in the third to the last line (Note: do not close the webpage of Postgres !!!!!!!)

```
engine_2019 = create_engine('postgresql://postgres:postgres@localhost:5432/flight_2019_db')
```

```
engine_2020 = create_engine('postgresql://postgres:postgres@localhost:5432/flight_2020_db')
```

Step 5: Run all of the python code in the sql.ipynb (may take a few minutes!)



Step 6 (Optional): test a query

flight_2019_db/postgres@PostgreSQL 12

Query Editor | Query History

```
1  select * from flight;
```

Data Output | Explain | Notifications | Messages

	flight_id [PK] integer	flight_date date	airline_code character varying	departure_airport integer	destination_airport integer	dep dou
1	1	2019-03-01	9E	11193	13487	
2	2	2019-03-01	DL	11193	13487	
3	3	2019-03-01	9E	11193	13487	
4	4	2019-03-01	9E	11193	13487	
5	5	2019-03-01	9E	11193	13487	