Exercise 1

Below is a sample data from the JSON file we are using (airlines.json) in a tabular form to define query into it.

Airport Code	Year	Flights cancelled	Flights Delayed	Flights On time	Total Flights	Total Carriers
ATL	2003	216	5843	23974	30060	11
BOS	2003	138	1623	7875	9639	14
TPA	2016	146	1095	4748	5996	10
JKL	2017	70	150	4013	5091	6
DCA	2016	190	2019	6800	9009	15
IOP	2018	40	498	2186	3001	78

Table: airlines.json

1. Data **selection**.

   Requirement: Get all the data in airlines.json

*Select * from airlines.json;*

=> It will return the entire table above.

2. Data **projection**, **filtering** and **combination**

   Requirement: Get the total number of flights per year with more than or equal to 100 canceled flights from an Airport.

   Select year, sum (total flights) from airlines.json
   Where flights_ cancelled > 99
   group by year
   order by year;

=> Result will be projected, *filtered, grouped by year and presented in ascending order of year.*

Year	*sum (total flights)*
2003	39699
2016	15005