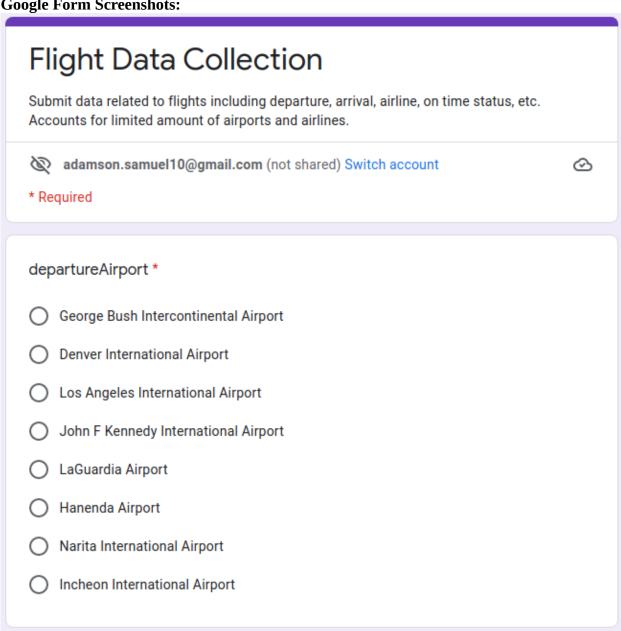
Samuel Adamson CSCI 260 Form to SQL Assignment

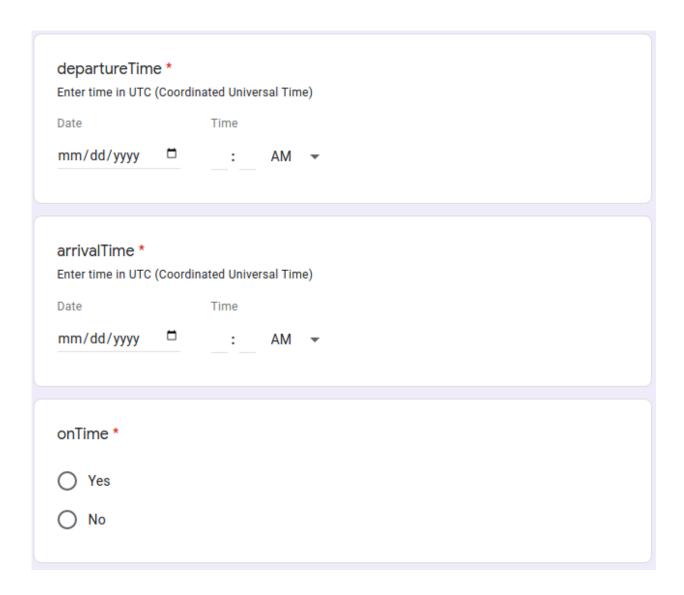
Flight data is collected using a Google Form. Data related to flights includes departure airport, arrival airport, departure time, arrival time, airline, and on time status. After data is collected using Google Forms, the results are download in comma-separated values format (.csv). The data is extracted, parsed, and inserted into the flight database using python. The data is queried using the SQLite3 command line interface.

Google Form: Link

## **Google Form Screenshots:**



arrivalAirport *
George Bush Intercontinental Airport
O Denver International Airport
Cos Angeles International Airport
O John F Kennedy International Airport
C LaGuardia Airport
Hanenda Airport
Narita International Airport
Incheon International Airport
airline *
American Airlines
O South West Airlines
United Airlines
C Korean Airlines
O Japan Airlines



## **Downloaded Data from Google Forms (.csv format):**

```
| Flight Data Collection.csv
| "Timestamp", "departureAirport", "arrivalAirport", "airline", "departureTime", "arrivalTime", "onTime"
| "2021/10/26 1:18:24 AM CDT", "George Bush Intercontinental Airport", "Denver International Airport", "South West Airlines", "2021-10-26 00:17", "2021-10-26 04:2:
| "2021/10/26 1:19:42 AM CDT", "Hanenda Airport", "Incheon International Airport", "Japan Airlines", "2021-10-26 08:15", "2021-10-26 13:02", "Yes"
| "2021/10/26 1:21:02 AM CDT", "Lagrardia Airport", "Los Angeles International Airport", "American Airlines", "2021-10-26 09:27", "2021-10-26 15:59", "No"
| "2021/10/26 1:22:23 AM CDT", "Los Angeles International Airport", "Narita International Airport", "American Airlines", "2021-10-26 10:21", "2021-10-26 00:05", "Your and the second airlines are second airlines and the second airlines are second airlines and the second airlines and the second airlines are second airlines are second airlines are second airlines are second airlines and the second airlines are second airl
```

<sup>\*</sup> For better visibility, see full file in attached source code

## Sqlite3 query of flight table after initial table setup:

## Sqlite3 query of flight table data using inner joins:

```
sqlite> select f.ID, a1.name, a2.name, airline.name, f.departureUTC, f.arrivalUTC, f.onTime
...> from flight f
...> inner join airport a1 on f.departureAirportID = a1.ID
...> inner join airport a2 on f.arrivalAirportID = a2.ID
...> inner join airline on f.airlineID = airline.ID;
1[George Bush Intercontinental Airport|Denver International Airport|South West Airlines|2021-10-26 00:17:00|2021-10-26 04:25:00|1
2|Hanenda Airport|Incheon International Airport|Japan Airlines|2021-10-26 08:15:00|2021-10-26 13:02:00|1
3|LaGuardia Airport|Los Angeles International Airport|American Airlines|2021-10-26 09:27:00|2021-10-26 15:59:00|0
4|Los Angeles International Airport|Narita International Airport|American Airlines|2021-10-27 10:21:00|2021-10-26 00:05:00|1
5|Los Angeles International Airport|Denver International Airport|United Airlines|2021-10-27 13:05:00|2021-10-27 17:46:00|0
6|Incheon International Airport|Los Angeles International Airport|Korean Airlines|2021-10-27 07:43:00|2021-10-27 20:50:00|1
7|Denver International Airport|LaGuardia Airport|United Airlines|2021-10-27 10:51:00|2021-10-27 14:45:00|0
8|LaGuardia Airport|George Bush Intercontinental Airport|American Airlines|2021-10-27 16:45:00|2021-10-27 20:56:00|1
sqlite>
```