## **DATA ACQUISITION** 1. Carrier Info 2. Destination Info Airport Codes API 1 - Places API 2 - Quotes Skyscanner What are the 3. Quotes List of cities most visited cities and Country to go on Cities with lat/ vacation? OpenCage Data API 3 -Lat / Long long What would be Features Used: **GMAPs Wrapper** Input API 4 - Maps Export data to our departure A. For Loops information in Excel cities? B. List CSV format comprehensions Heat Map & Markers Map **CLEAN UP & EXPLORATION** City ID Departure Non-Stop Departure Quote lata Min Airline Departure Country City Name **Airport Name** Airline Name Flight Code Name Price ID Hong Kong Japan HKG Hong Kong Houston 56615 Hong Kong 58440 454 1276 False 12/1/2019 Clean Data International Read CSV 1. Replace strings Hong Kong Merge, Drop Houston 56615 Hong Kong HKG Hong Kong 58440 487 1467 12/4/2019 Spirit Airlines International 2. Change columns names 1. Carriers Duplicates & Map 2. Places 3. Convert object to int Hong Kong Frontier HKG Hong Kong Houston 56615 Hong Kong 58440 684 1065 False 12/12/2019 data frames International 3. Quotes 4. Drop unnecessary/duplicates Hong Kong columns HKG Hong Kong EVA Air Houston 56615 Hong Kong 58440 918 898 False 12/14/2019 International Hong Kong Japan Houston 56615 Hong Kong HKG Hong Kong 58440 1022 1276 False 12/20/2019 Core Issues Hong Kong International Houston 56615 Hong Kong HKG Hong Kong False 12/25/2019 58440 500 835 6 Air Canada 1. Airlines Mapping Clean Data Frames 2. Johannesburg City and export to excel - Drop duplicates One table for each departure city (6 Tables, NY, SEA, LA, ATL, CHI, HOU) 1. Carriers 2. Places 3. Quotes **INTERSTING FIGURES – INITIAL ANALYSIS** Pick top 5 cities that I would Execute T-Test (Independent Consolidate in Analyze Price across all like to go. Preselect the Execute ANOVA Testing of Samples). Comparison of Read CSV departing cities Houston and a single data destinations from all 6 airline price from the average price of each P-values results Of 6 departure cities frame departure cities ATL (just because I used to preselected 5 cities departure city to same live in ATL) destinations. Append all 6 Export to CSV Box Plot Destination Cities vs Box Plot Destination Cities vs Error bar chart tables Price Price