

# IWT Reporting - AC Business Case

## Request

Create a dashboard to report IWT incident data and IWT incident route for AC Cargo Services.

## Questions

- Does the Cargo Incident data represent all airlines operating at the responsible station or AC?
- Is there value in visualizing route with flowlines between stations on a map?
- Should the Responsible Station where IWT incidents occur be classified into origin or destination?
- Priority of information to be visualized including status and criticality.

## Issues

- Missing value in Responsible station column
- In mapping the stations, some stations plotted to a wrong location.

## Insights

- All AC Cargo Risk route stations currently in Central and South America.
- AC Stations in countries not on the IWT risk table, record a higher number of IWT incidents.
- Responsible stations are mostly destination stations on the AC route.
- Some IWT risk origin countries have multiple risk routes.

## Bonus

```
SELECT
  C.CUSTOMER_ID,
  C.FLIGHT_DATE,
  C.FLIGHT_ORIGIN,
  C.FLIGHT_DESTINATION,
  F.AIRCRAFT_REGISTRATION_CODE
FROM
  FLOWN_CARGO C
LEFT OUTER JOIN SEGMENT_FLOWN F
  ON C.FLIGHT_NUMBER = F.FLIGHT_NUM
WHERE C.FLIGHT_DATE = '2022-06-16';
```

The SQL intends to generate a dataset that includes **Customer ID**, **Flight Date**, **Flight Origin**, **Flight Destination** from the **Flown Cargo C** dataset, and **Aircraft Registration Code** from the **Segment Flown F** dataset by a join of common **Flight Number** from both dataset C and F, for **Flight date** 2022-06-16. A **left outer join** is used to ensure that all data from the Flown Cargo C dataset on Flight date, is included. The generated dataset will not display due the semi-colon.