

SHARK DEFENSE



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PROJECT OVERVIEW

Business case

We have developed protective gear against shark attacks, particularly with fatal outcomes.

Problem

Identifying the most severely affected countries by shark attacks, especially with fatal outcomes.

PROJECT OVERVIEW

Hypothesis

1. Shark attacks occur more in Southern Hemisphere countries.
2. The number of shark attacks increased over the last decade.
3. The higher the crime rate of the country the higher the number of fatal attacks.

DATA WRANGLING

CLEANING CHALLENGES

- Missing values
- Duplicated values
- Entire null rows

CLEANING TECHNIQUES

- Dropped irrelevant columns
- Deleted null values in “Injury” column

EXPLORATORY DATA ANALYSIS

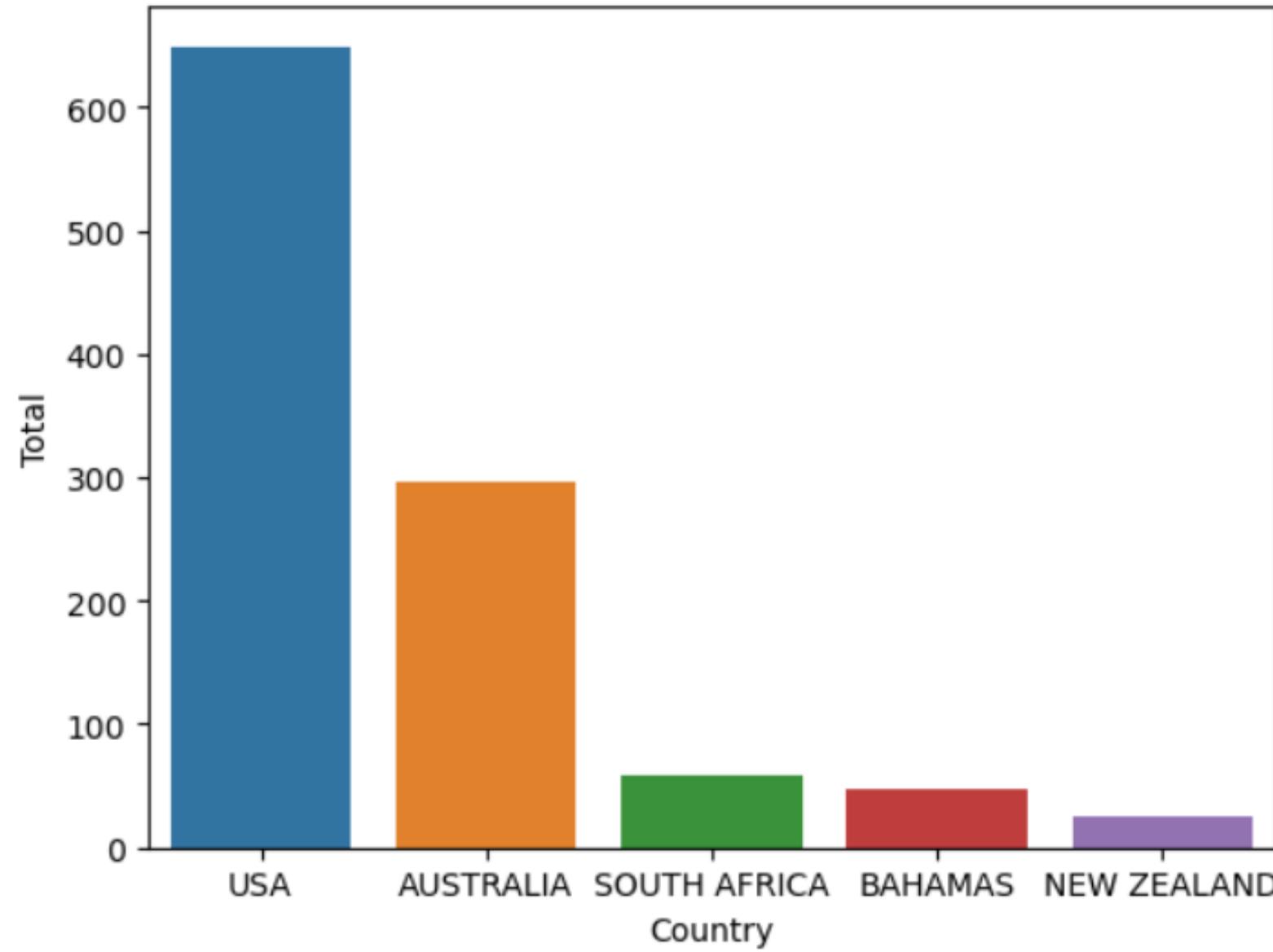
TECHNIQUES

Filtering:

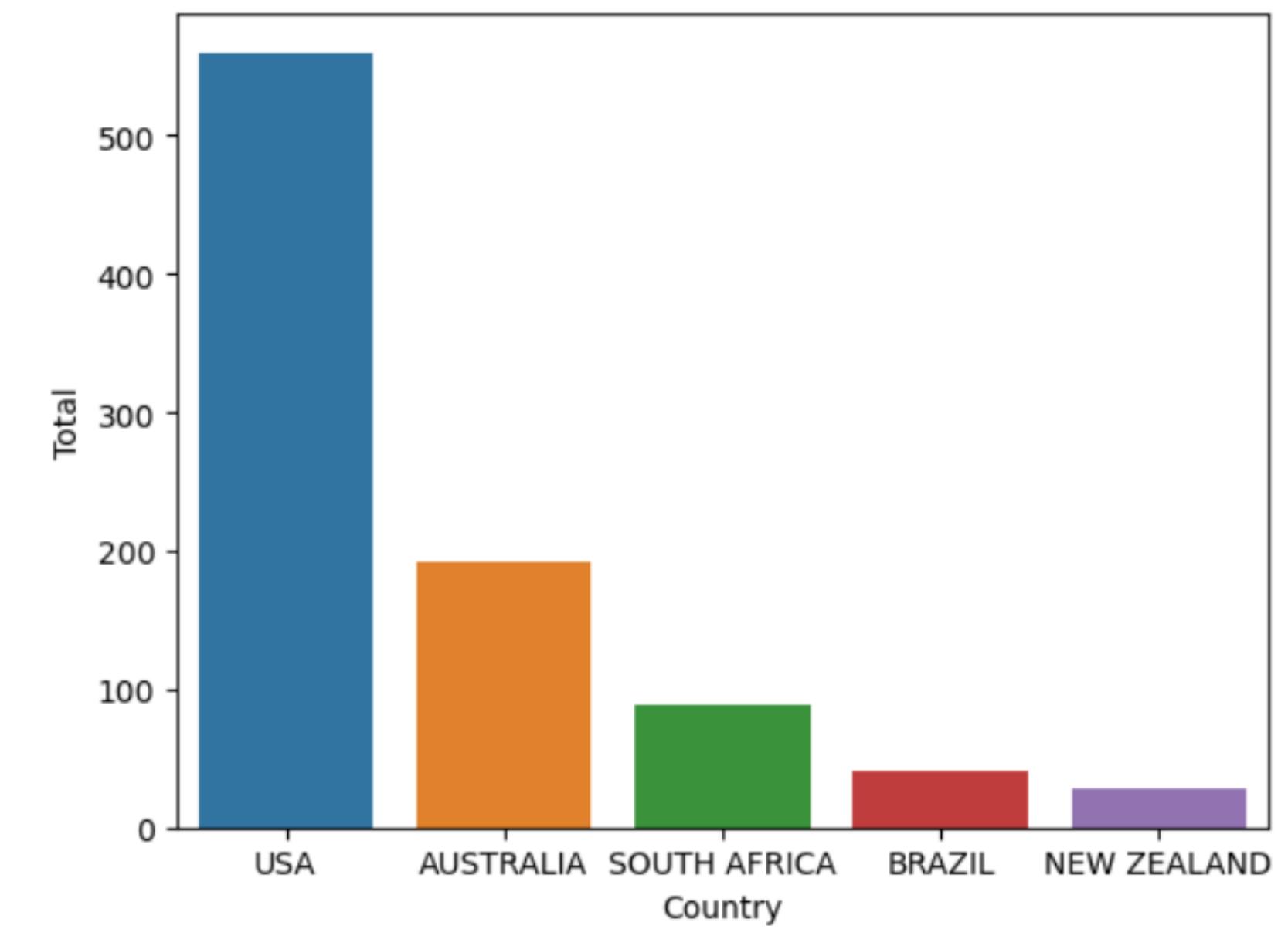
- Total number of attacks by country.
- Fatal incidents.
- Top 5 countries and comparing the developments.

OVERALL ATTACKS

2012-2022

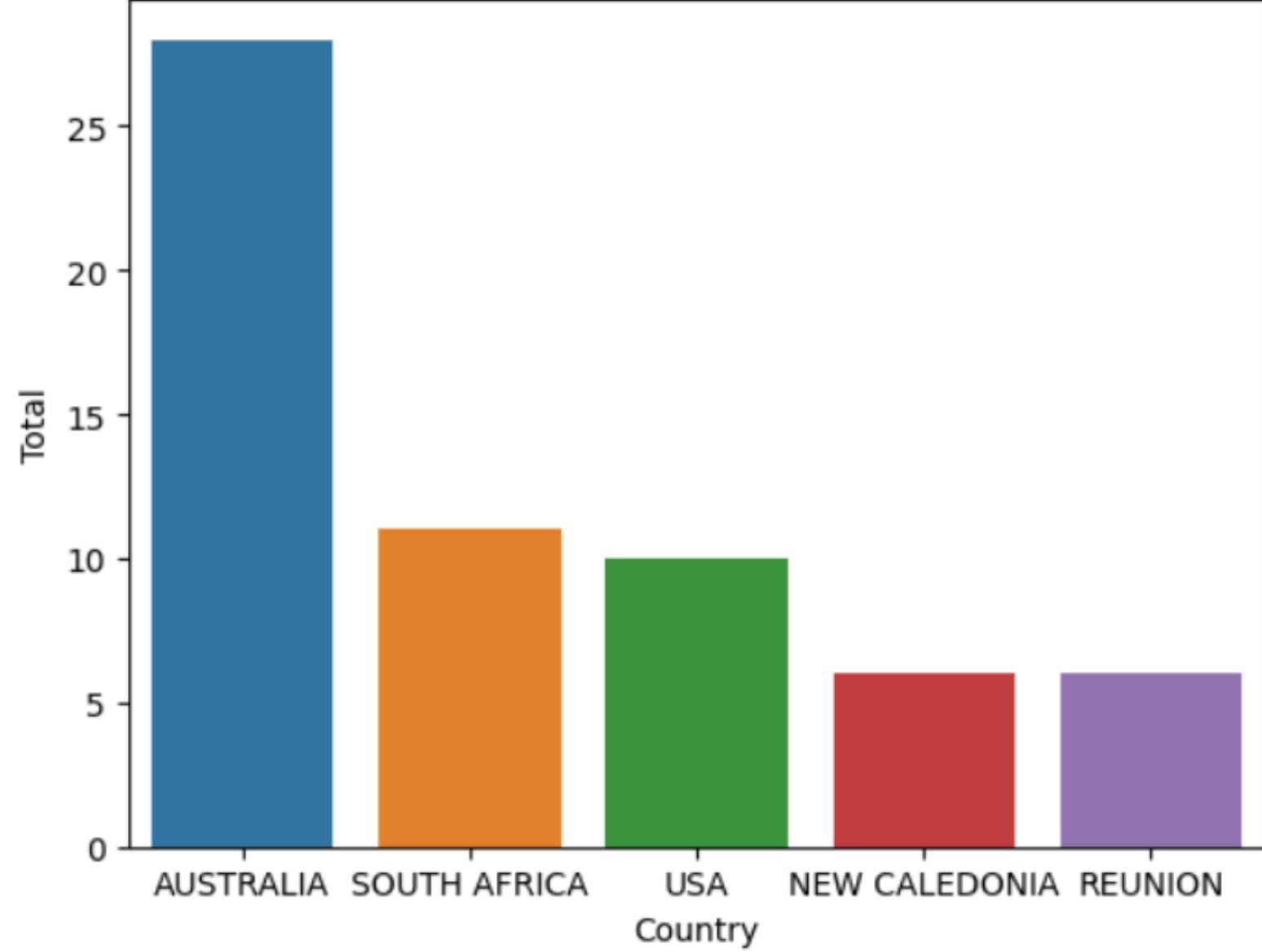


2001-2011

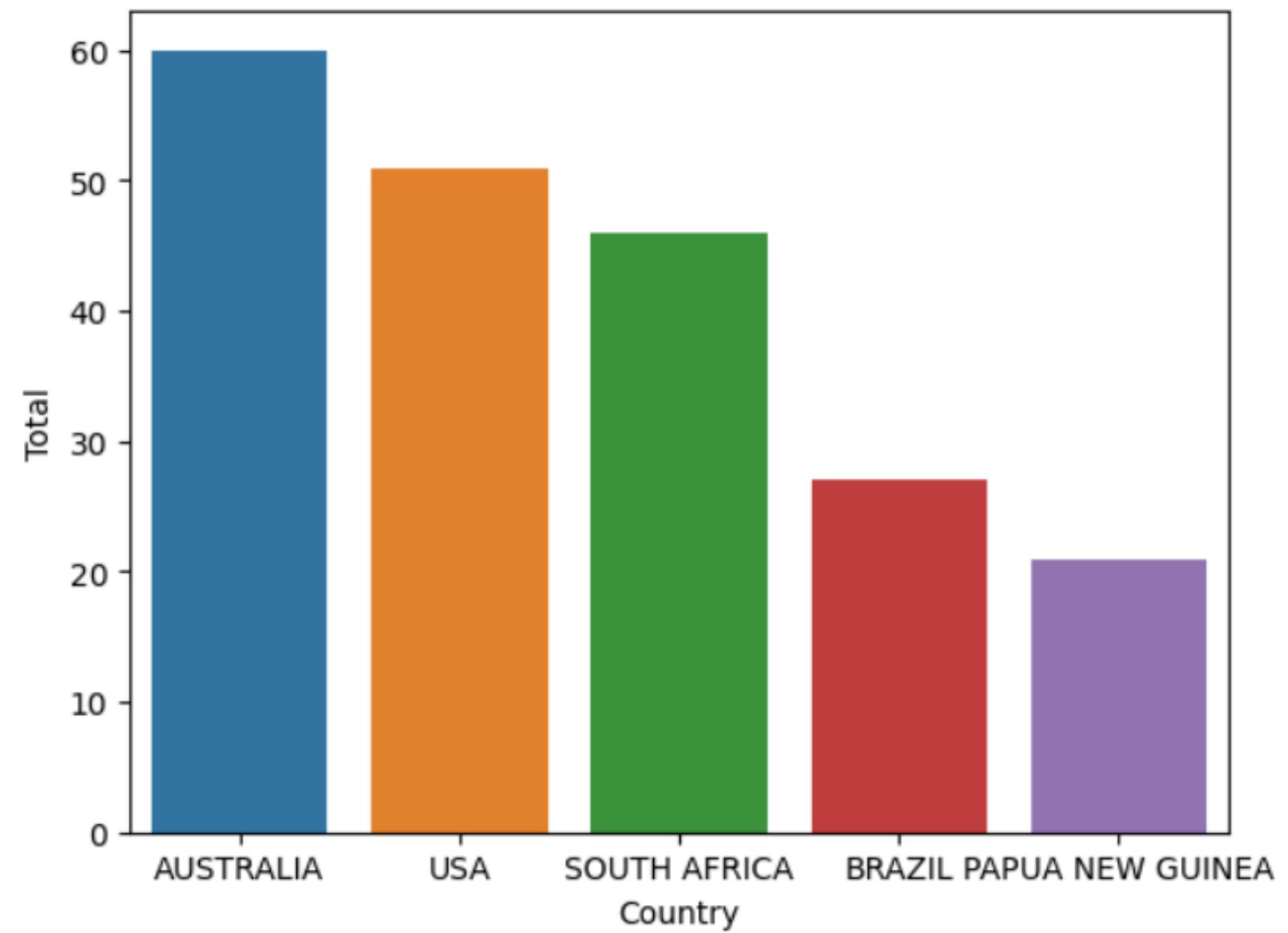


FATAL ATTACKS

2012-2022



2001-2011



MAJOR OBSTACLES

- Importing Dataset
- Cleaning Dataset: unnamed columns, missing values
- Making the graphs match

CONCLUSION

Two hypothesis proven and
one semi-proven.

Business case solution:
AUSTRALIA

