Transforming and Analyzing Data with SQL

LIGHTHOUSE

by Abi Afolabi 12th July 2023

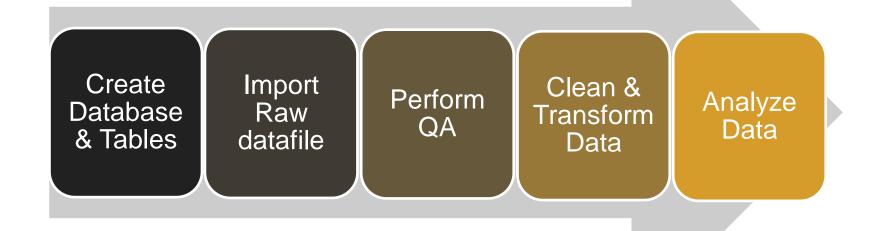
Project Overview & Goals

- Reinforce learning with hands-on experience
 - Database & Table creation
 - Data Import & QA
 - Data Cleaning & Transformation
 - Data Analysis
- Deductive reasoning
 - Extract hidden information
 - Gain insight



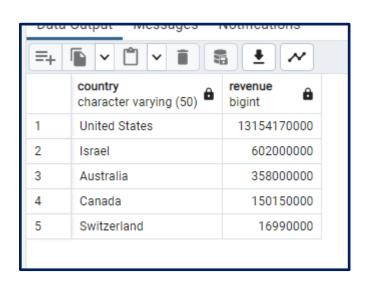
- Data from online store
- Customer interactions
- Customers across the globe
- Records of sales

Project Execution Steps



Discoveries

- Current top ranked customers
 - 5 out of 136 (~4%)



Potential customers (Limit 10)

	country character varying (50)	totaltimeonsite bigint	
1	United States	1597764	
2	Canada	134341	
3	India	98153	Ī
4	United Kingdom	69221	l
5	Taiwan	51890	l
6	Japan	45377	l
7	Germany	40989	l
8	France	40763	
9	Australia	31744	Ī
10	Singapore	30923	Ť

QA Process

- Incomplete data (visual & SQL)
- Inconsistent / unreasonable values
 - Quantityordered < 0
- Validate column names in different tables for JOINS
 - Fullvisitorid
- Referential Integrity Check failed

With more time I will....

- Investigate why Referential Integrity Check between tables failed.
- Explore best opportunity to update null values with valid data.
- Generate insight to guide on ways to get customers from more countries.

Conclusion

- Questionable dataset ??
- Investigate opportunities to increase revenue
 - Promotional offers
 - Payment currency
 - Discount for customers in select countries





https://github.com/AbiAfolabi/Abis_New_Project1