

## FINAL PROJECT REPORT



### INTERNATIONAL FOOTBALL RESULTS FROM 1872 TO 2019

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#### OVERVIEW:

This dataset includes 40,838 results of international football matches starting from the very first official match in 1872 up to 2019. The matches range from FIFA World Cup to FIFA Wild Cup to regular friendly matches. The matches are strictly men's full internationals and the data does not include Olympic Games or matches where at least one of the teams was the nation's B-team, U-23 or a league select team.

#### SAMPLE OF THE DATASET:

# home_score Home team full time score.	# away_score Away team full time score.	A tournament Name of the tournament.	A city City where the match took place.	A country Country where the match took place.
		Friendly 41% FIFA World Cup ... 17% Other (107) 41%	Kuala Lumpur 1% Doha 1% Other (1958) 98%	United States 3% France 2% Other (264) 95%
0	0	Friendly	Glasgow	Scotland
4	2	Friendly	London	England
2	1	Friendly	Glasgow	Scotland
2	2	Friendly	London	England
3	0	Friendly	Glasgow	Scotland
4	0	Friendly	Glasgow	Scotland
1	3	Friendly	London	England
0	2	Friendly	Wrexham	Wales
7	2	Friendly	Glasgow	Scotland
9	0	Friendly	Glasgow	Scotland
2	1	Friendly	London	England
5	4	Friendly	London	England
0	3	Friendly	Wrexham	Wales
5	4	Friendly	Glasgow	Scotland
2	3	Friendly	Wrexham	Wales
5	1	Friendly	Glasgow	Scotland
0	1	Friendly	Blackburn	England
1	6	Friendly	London	England

#### PROPOSED FEATURES: (Proposal report)

- The application will show all the attributes of the dataset
- The application will have the sorting feature on numerical and non-numerical attributes
- The application will have the filtering feature that will allow users to simplify the search by specifying ranges
- A visualization feature that enhances the overall user experience

#### FEATURES IMPLEMENTED:

- The application shows all the attributes of the dataset
- The application has the sorting feature on numerical and non-numerical attributes
- The application has the filtering feature that will allow users to simplify the search by specifying ranges
- A visualization feature that enhances the overall user experience

## MIDTERM SUMMARY:

In the midterm report we implemented the attribute showing feature on the entire dataset.

← → 🏠 🌐 localhost:5000

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	serial number	date	home team	away team	home score	away score	tournament	city	country	neutral
0	1	1872-11-30	Scotland	England	0	0	Friendly	Glasgow	Scotland	False
1	2	1873-03-08	England	Scotland	4	2	Friendly	London	England	False
2	3	1874-03-07	Scotland	England	2	1	Friendly	Glasgow	Scotland	False
3	4	1875-03-06	England	Scotland	2	2	Friendly	London	England	False
4	5	1876-03-04	Scotland	England	3	0	Friendly	Glasgow	Scotland	False
5	6	1876-03-25	Scotland	Wales	4	0	Friendly	Glasgow	Scotland	False
6	7	1877-03-03	England	Scotland	1	3	Friendly	London	England	False
7	8	1877-03-05	Wales	Scotland	0	2	Friendly	Wrexham	Wales	False
8	9	1878-03-02	Scotland	England	7	2	Friendly	Glasgow	Scotland	False
9	10	1878-03-23	Scotland	Wales	9	0	Friendly	Glasgow	Scotland	False
10	11	1879-01-18	England	Wales	2	1	Friendly	London	England	False
11	12	1879-04-05	England	Scotland	5	4	Friendly	London	England	False
12	13	1879-04-07	Wales	Scotland	0	3	Friendly	Wrexham	Wales	False
13	14	1880-03-13	Scotland	England	5	4	Friendly	Glasgow	Scotland	False
14	15	1880-03-15	Wales	England	2	3	Friendly	Wrexham	Wales	False
15	16	1880-03-27	Scotland	Wales	5	1	Friendly	Glasgow	Scotland	False
16	17	1881-02-26	England	Wales	0	1	Friendly	Blackburn	England	False
17	18	1881-03-12	England	Scotland	1	6	Friendly	London	England	False
18	19	1881-03-14	Wales	Scotland	1	5	Friendly	Wrexham	Wales	False
19	20	1882-02-18	Northern Ireland	England	0	13	Friendly	Belfast	Republic of Ireland	False
20	21	1882-02-25	Wales	Northern Ireland	7	1	Friendly	Wrexham	Wales	False
21	22	1882-03-11	Scotland	England	5	1	Friendly	Glasgow	Scotland	False
22	23	1882-03-13	Wales	England	5	3	Friendly	Wrexham	Wales	False
23	24	1882-03-25	Scotland	Wales	5	0	Friendly	Glasgow	Scotland	False
24	25	1883-02-03	England	Wales	5	0	Friendly	London	England	False
25	26	1883-02-24	England	Northern Ireland	7	0	Friendly	Liverpool	England	False
26	27	1883-03-10	England	Scotland	2	3	Friendly	Sheffield	England	False
27	28	1883-03-12	Wales	Scotland	0	3	Friendly	Wrexham	Wales	False
28	29	1883-03-17	Northern Ireland	Wales	1	1	Friendly	Belfast	Republic of Ireland	False
29	30	1884-01-26	Northern Ireland	Scotland	0	5	British Championship	Belfast	Republic of Ireland	False
30	31	1884-02-09	Wales	Northern Ireland	6	0	British Championship	Wrexham	Wales	False

## PROJECT IDEA:

We made a web application using Javascript, HTML, CSS as described in the proposal report. The application serves the purpose of sorting, filtering and visualizing the “INTERNATIONAL FOOTBALL RESULTS FROM 1872 TO 2019” dataset. It provides the user to look forward into the statistics of the dataset by applying sorting and filtering features. The filtering feature also allows to narrow down the search for the user. The sorting feature enables the user to take a closer look in the data by applying an ascending or a descending sort feature. We have also implemented the visualization feature that has insights to the dataset and would surely allow the user to know more about the dataset

## ARCHITECHTURE AND IMPLEMENTATION DETAILS:

- *Showing up Attributes* : We used JavaScript in displaying the content of the dataset on to a web page(firebase.html)
- *Sorting* : We used the Tablesorter function and Jquery to sort each and every column of the dataset and displaying it on the web page
- *Filtering* : We used JavaScript to implement the filtering feature on each and every column of the dataset
- *Visualization*: We implemented visualization using CanvasJS to our Dataset

Screenshot of ther features implemented:

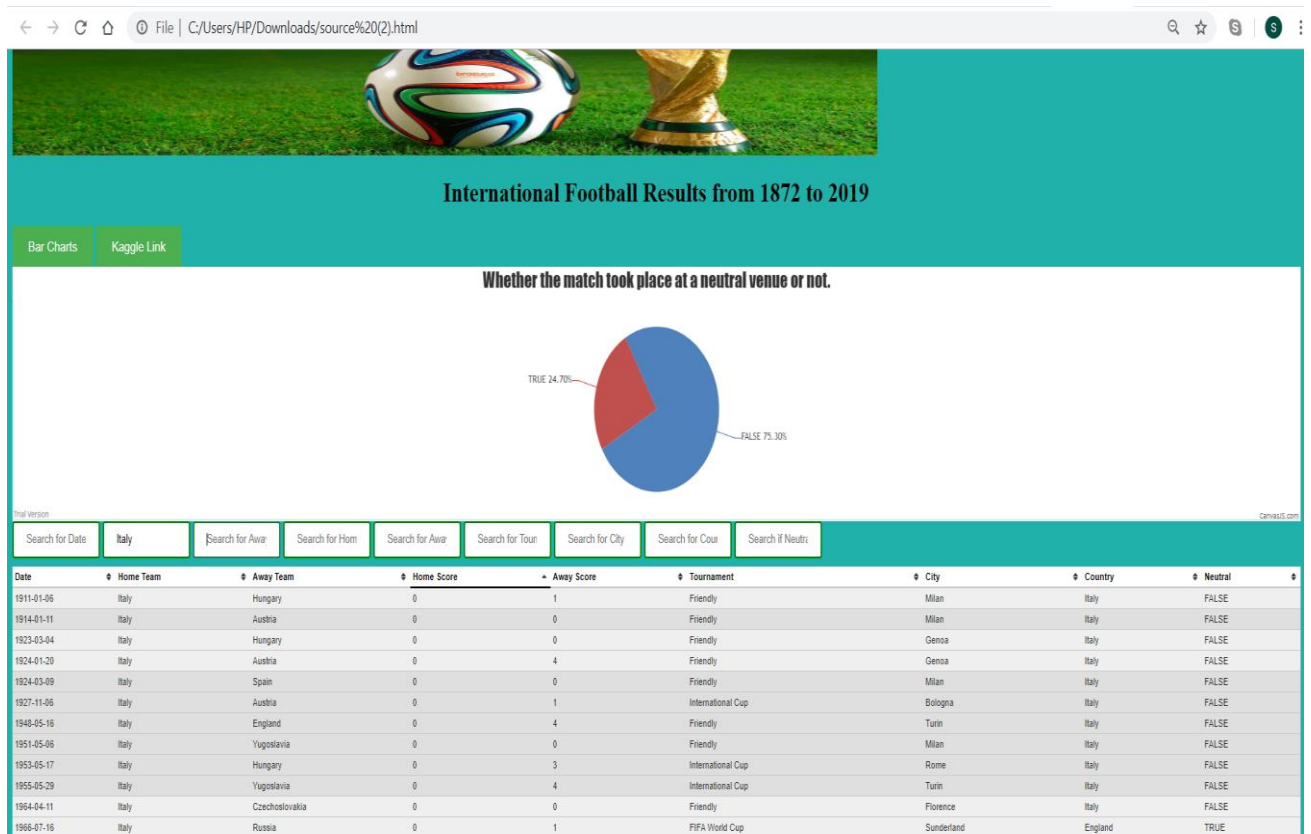
## SORTING: Non-Numerical Attribute (ON THE HOMETEAM NAME)



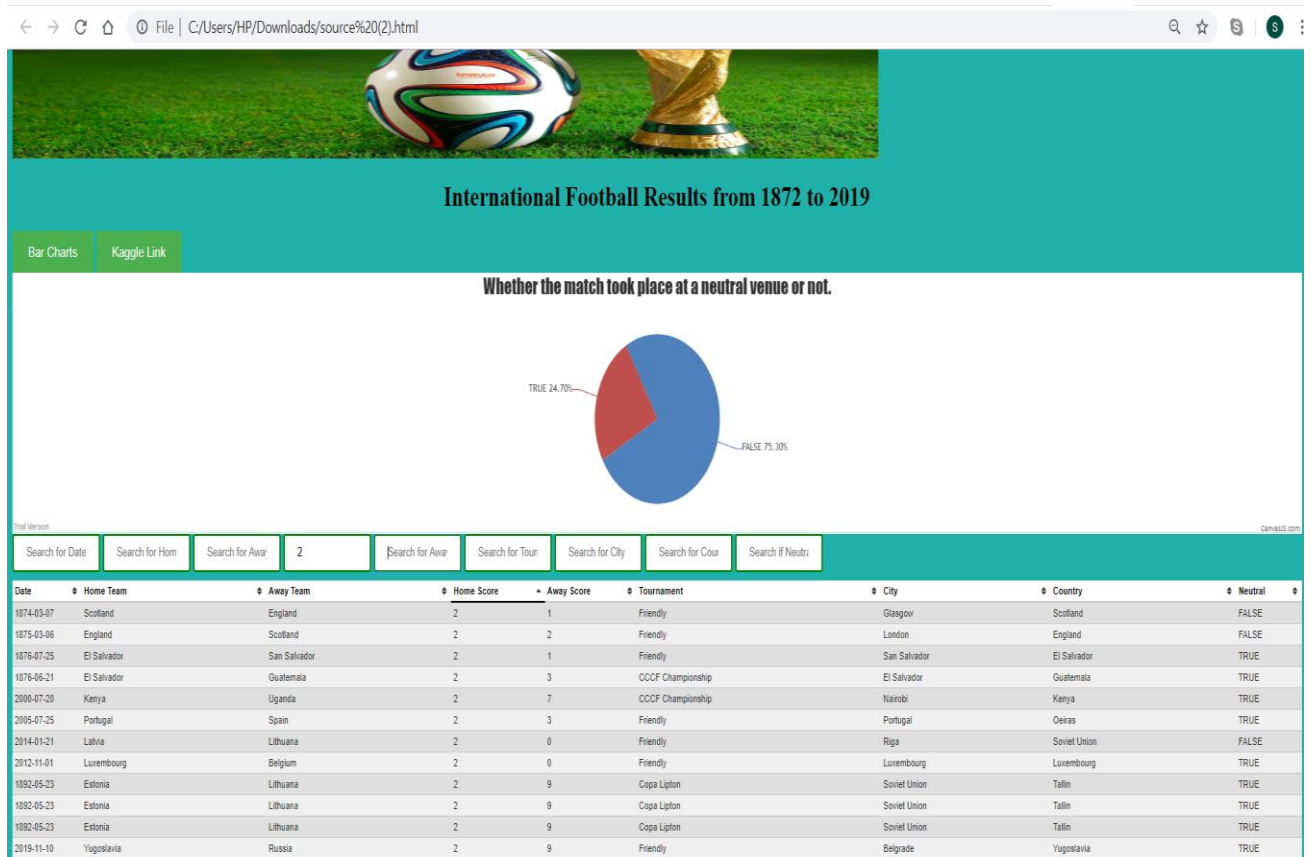
## SORTING: Numerical Attribute (ON THE HOMESCORE)



## FILTERING: Non-Numerical Attribute (ON THE HOMETEAM)



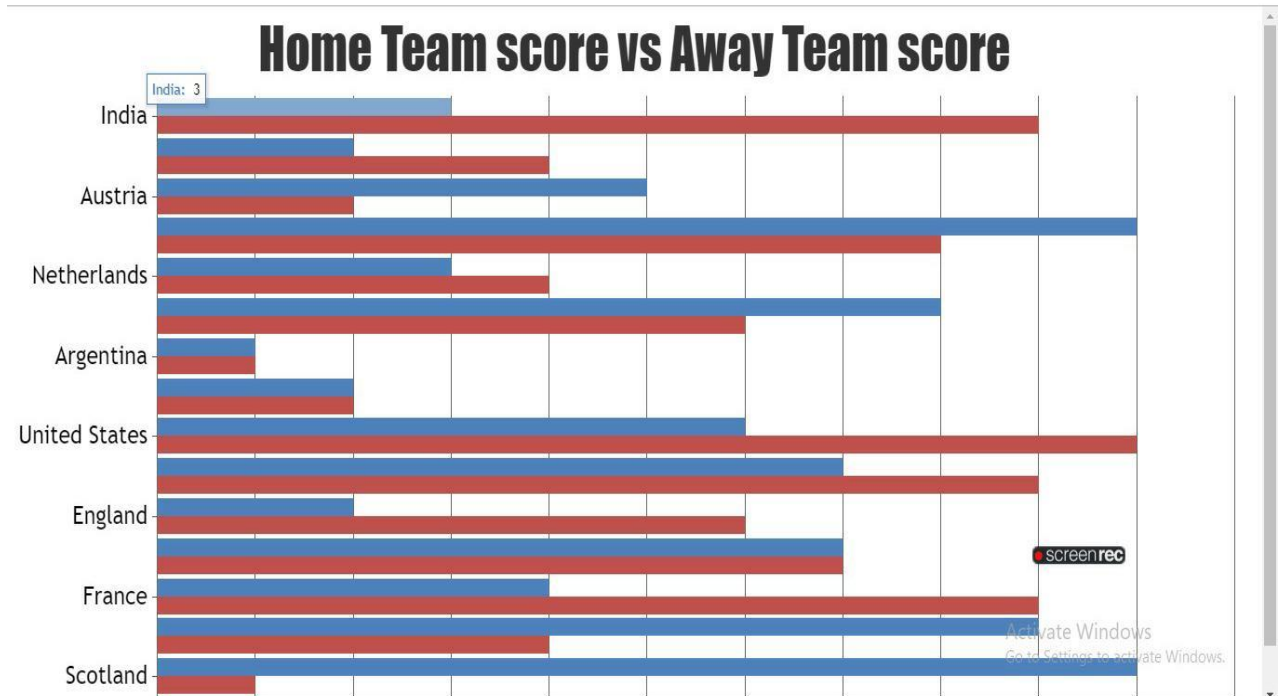
## FILTERING: Numerical Attribute (ON THE HOMESCORE)



**VISUALIZATION : (A PIE CHART DESCRIBING WHETHER OR NOT THE MATCH TOOK PLACE AT A NEUTRAL VENUE)**



**VISUALIZATION: (A BAR GRAPH DESCRIBING HOME TEAM SCORE VS AWAY TEAM SCORE)**



## THE TABLESORTER FUNCTION: (SORTING IMPLEMENTATION)

- tablesorter is a [jQuery](#) plugin for turning a standard HTML table with THEAD and TBODY tags into a sortable table without page refreshes. tablesorter can successfully parse and sort many types of data including linked data in a cell. It has many useful features including:
- Multi-column sorting
- Parsers for sorting text, URIs, integers, currency, floats, IP addresses, dates (ISO, long and short formats), time. We could add our own easily
- tablesorter will auto-detect most data types including numbers, dates, ip-addresses

## ROLES AND RESPONSIBILITIES:

**SHUBHAM SHARMA:** Worked on the attribute showing feature and the filtering feature plus some enhancements to the dataset.

**SIMRAN MAKANDAR:** Worked on the sorting feature and visualization features on the dataset