# FIFA WORLD CUP DATA ANALYSIS

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## INTRODUCTION

Data Analysis is a process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, informing conclusions and supporting decision-making. Data analysis has multiple facets and approaches, encompassing diverse techniques under a variety of names, while being used in different business, science, and social science domains.

The analytics team of the Football World Cup association and FIFA association anywhere in the world would love to check our through party analysis of each and every match leading to a well-organized and fruitful information. My analysis contains data on host teams, all stadiums, prost supported team and teams which are most successful.

#### **DASHBOARD**



### SCOPE OF ANALYSIS

The system wants to see and analyze the sales trend month-wise and product-wise and work upon the lagging segments and outperforming employees accordingly. The Analytics team also wants to create analyze the database in depth to help the super store grow exponentially. The Analytics from wishes to answer the following objectives: -

- Half time goals scored by the home and away team year wise.
- No of goals scored in finals until now.
- Analyzing the total attendance of crowd in Group matches, semifinals and finals.
- Overall Attendance for a particular city until now.
- No. of people came to view match for particular team.
- Country winning the maximum World Cups.
- Goals scored by home teams and away team
- Analyzing difference between total goals scored and total goals conceded by teams

Aim of this project is to answer the above objectives in the form of visualization by creating a dashboard to convey the answers effectively and efficiently.

## STEP1.REMOVING BLANK CELLS FROM THE DATASET STEP2.REMOVING COLUMNS WHICH ARE NOT PROPERLY DEFINED OR NOT CRUCIAL TO OUR ANALYSIS

Step3. Giving proper and appropriate column names.

Step4. Removing Duplicate Values

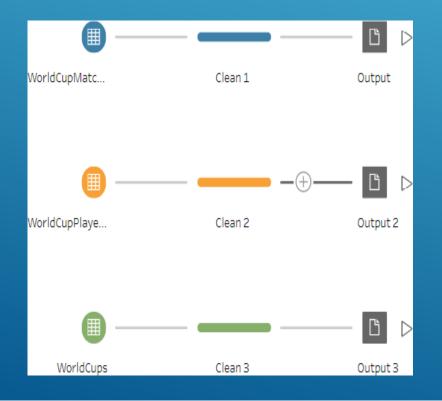
Step5. Improvising Proper Data Formatting

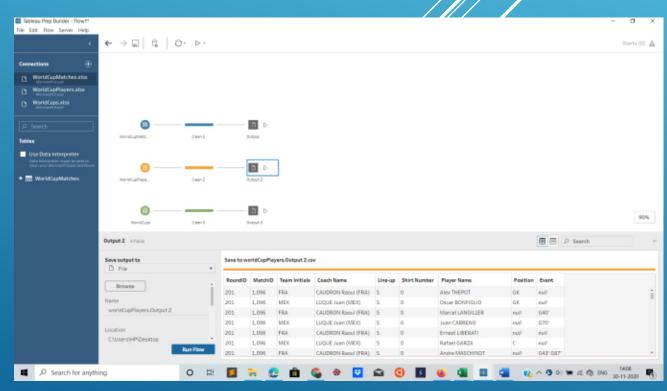
h							
1930 13 Jul 1930 - 15:00	Group 1	Pocitos	Uruguay	Montevideo	France	4	1 Mexico
1930 13 Jul 1930 - 15:00	Group 4	Parque Central	Uruguey	Montevideo	USA	3	0 Belgium
1930 14 Jul 1930 - 12:45	Group 2	Parque Central	Uruguey	Montevideo	Yugoslavia	2	1 Brazil
1930 14 Jul 1930 - 14:50	Group 3	Pocitos	Uruguey	Montevideo	Romenia	3	1 Peru
1930 15 Jul 1930 - 16:00	Group 1	Parque Central	Uruguey	Montevideo	Argentino	1	0 France
1930 16 Jul 1930 - 14:45	Group 1	Parque Central	Uruguay	Montevideo	Chile	3	0 Mexico
1930 17 Jul 1930 - 12:45	Group 2	Parque Central	Uruguey	Montevideo	Yagoslavia	4	0 Bolivia
1930 17 Jul 1930 - 14:45	Group 4	Parque Central	Uruguay	Montevideo	USA	3	0 Paragony
1930 18 Jul 1930 - 14:30	Group 3	Extedio Centenerio	Uruguay	Montevideo	Uruguay	1	0 Peru
1930 19 Jul 1930 - 12:50	Group 1	Extedio Centenario	Uruguay	Montevideo	Chile	1	0 France
1930 19 Jul 1930 - 15:00	Group 1	Estadio Centenario	Uruguay	Montevideo	Argentina	6	3 Mexico
1930 20 Jul 1930 - 13:00	Group 2	Estadio Centenario	Uruguay	Montevideo	Brazil	4	0 Bolivia
1930 20 Jul 1930 - 15:00	Group 4	Estadio Centenario	Uruguay	Montevideo	Paraguay	1	0 Relgium
1930 21 Jul 1930 - 14:50	Group 3	Estadio Centenario	Uruguay	Montevideo	Uruguay	4	0 Romania
1930 22 Jul 1930 - 14:45	Group 1	Estadio Centenario	Uruguay	Montevideo	Argentina	3	1 Chile
1990 26 Jul 1990 - 14:45	Semi-finals	Estadio Centenario	Uruguay	Montevideo	Argentina	6	1 USA
1990 27 Jul 1990 - 14:45	Semi-finals	Estadio Centenario	Uruguay	Montevideo	Uruguay	6	1 Yugoslavia
1930 30 Jul 1930 - 14:15	Final	Estadio Centenario	Uruguey	Montevideo	Urugany	4	2 Argentina
1984 27 May 1984 - 16:30	Preliminary round	Stadio Benito Mussolini	italy	Turin	Austria	3	2 France
1934 27 May 1934 - 16:30	Preliminary round	Giorgio Ascarelli	Italy	Naples	Hungery	4	2 Egypt
		San Siro	Italy	Milan	Switzerland	3	2 Netherlands
1934 27 May 1934 - 16:30	Preliminary round	Littorale	Italy	Bologna	Sweden	3	2 Argentina
1934 27 May 1934 - 16:30	Preliminary round	Giovanni Berta	Italy	Florence	Germany	5	2 Belgium
1934 27 May 1934 - 16:30		Luigi Fernaris	Italy	Genoa	Spain	3	1 Brazil
1934 27 May 1934 - 16:30	Preliminary round	Nazionale PNF	Italy	Rome	Baly	7	1 USA
1934 27 May 1934 - 16:30		Littorio	Italy	Trieste	Czechoslovakia	2	1 Romania
1934 31 May 1934 - 16:90		Stadio Benito Mussolini	Italy	Turin	Czechoslovakia	3	2 Switzerland
	Quarter-finals	San Siro	Italy	Milan	Germany	2	1 Sweden
1934 31 May 1934 - 16:30		Giovanni Berta	Italy	Florence	Italy	1	1 Spain
	Quarter-finals	Littorale	Italy	Bologna	Austria	2	1 Hungary
1934 01 Jun 1934 - 16:30	Quarter-finals	Giovanni Berta	Italy	Florence	Italy	1	0 Spain
	A STATE OF THE PARTY OF THE PAR						1,000,000

Order	Discoun	Unit Price	Shipping	Customer ID	Custo	mer NShip Mode	4	Customer Sec	Product Catego	ry Product Sub-Ca	Product Container
Critical	\$0.06	\$9.48	\$7.29	11	Marcus	Dunk Regular Air		Home Office	Furniture	Office Furnishings	Small Pack
Critical	\$0.00	\$4.42	\$4.99	15	Timoth	y Ree Regular Air		Small Business	Office Supplies	Envelopes	Small Box
Critical	\$0.07	\$3,502.14	\$8.73	53	Sidney	Russ Delivery Trui	ck	Corporate	Technology	Office Machines	Jumbo Box
Critical	\$0.06	\$8.57	\$6.14	123	Shawn	Stem Regular Air		Home Office	Office Supplies	Scissors, Rulers a	Small Pack
Critical	\$0.04	\$18.97	\$9.54	136	Dale G	illespi Regular Air		Small Business	Office Supplies	Paper	Small Box
Critical	\$0.09	\$10.98	\$3.37	136	Dale G	illespi Regular Air		Small Business	Office Supplies	Scissors, Rulers a	Small Pack
Critical	\$0.03	\$22.84	\$11.54	142	Brooke	Wee Regular Air		Small Business	Office Supplies	Paper	Small Box
Critical	\$0.05	\$10.98	\$3.37	144	Margu	orito M.Doouler Air		Small Rucinocc	Office Supplies	Scissors, Rulers a	Small Pack
Critical	\$0.09	\$32.98	\$5.50	151	Geoffre	Remove Duplicates			? X	Computer Periphe	Small Box
Critical	\$0.09	\$2.88	\$0.70	152	Kent Ki					Pens & Art Supplie	Wrap Bag
Critical	\$0.01	\$95.99	\$4,90	156	Diana	To delete duplicate vi	alues, select one or n	nore columns that o	ontain duplicates.	Telephones and C	Small Box
Critical	\$0.05	\$1.88	\$1.49	171	Christin	Œ colod All	Unselect All	Ø M	y data has headers	Binders and Binde	Small Box
Critical	\$0.02	\$49.99	\$19.99	181	Wesle	≸≣ Select <u>A</u> ll	<u>□</u> <u>U</u> nselect All		2	Computer Periphe	Small Box
Critical	\$0.02	\$49.99	\$19.99	184	Phillip					Computer Periphe	Small Box
Critical	\$0.00	\$161.55	\$19.99	197	Samar	Columns			٨	Storage & Organiz	Small Box
Critical	\$0.00	\$161.55	\$19.99	198	Leroy I	☑ Order Priority				Storage & Organiz	Small Box
Critical	\$0.06	\$279.81	\$23.19	234	Don C					Appliances	Jumbo Drum
Critical	\$0.02	\$2.58	\$1.30	250	Brende					Pens & Art Supplie	:Wrap Bag
Critical	\$0.02	\$65.99	\$3,90	250	Brende	☑ Shipping Cost				Telephones and C	Small Box
Critical	\$0.03	\$8.34	\$2.64		Irene L					Scissors, Rulers a	Small Pack
Critical	\$0.04	\$1.98	\$0.70	276	Lucille	Customer Name			V	Rubber Bands	Wrap Bag
Critical	\$0.03	\$55.99	\$5.00	282	Vickie	IN I CUSTOMET NAME			140	Telephones and C	Small Pack
Critical	\$0.09	\$28.48	\$1.99	288	Patrici			OK	Cancel	Computer Periphe	
Critical	\$0.08	\$65.99	\$4.99	288	Patricia					Telephones and C	\$4000
Critical		ቀ27ፎ 20	42A AQ			Mar Dogular Air		Cornoreto	Furnituro	Chaire & Chairmat	All Control of the Co

#### STEP6. EXCLUDING THE NULL VALUES FROM THE DATA.

We'll be using Tableau prep for this work as it'll make the work simple and this because we might not know how many null values could be there in this huge data set. Tableau helps us doing one step cleaning with ease.





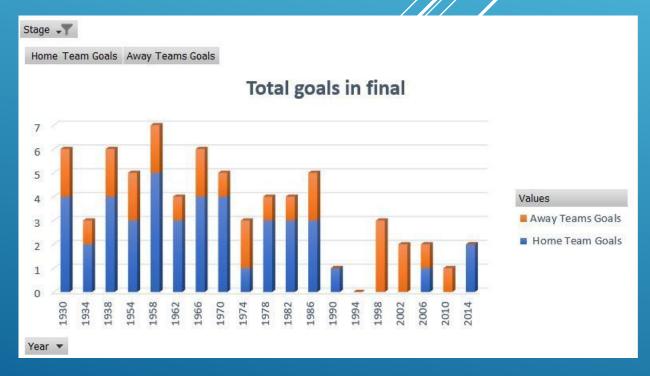
## 1.NO.OF GOALS SCORED IN FINALS UNTIL NOW Description:

By calculating the current trend of the number of goals scored by home and away teams we can check who have strategical advantage and who is going under more pressure.

#### Specific function and requirements

As we can see total of 69 goals scored in finals out of which 1958 having the host of 7 goals and 1994 with least of 0 goals.

Stage	Final	J	
Year	→ Home Tea	m Goals	Away Teams Goals
1930		4	2
1934		2	1
1938		4	2
1954		3	2
1958		5	2
1962		3	1
1966		4	2
1970		4	1
1974		1	2
1978		3	1
1982		3	1
1986		3	2
1990		1	0
1994		0	0
1998		0	3
2002		0	2
2006		1	1
2010		0	1
2014		2	0
Grand T	otal	43	26



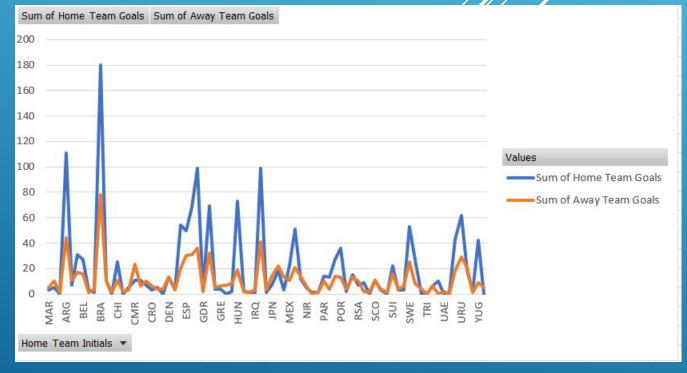
#### 2.GOALS SCORED BY HOME TEAMS AND AWAY TEAMS

Describes the total goals scored by home and away teams and also top 3 teams scoing most goal difference.

#### Specific function and requirements:

We have to create a pivot table. No specific functions are used. Only a few snips of the data shown

Row La	Sum of Hc Sum o	of Away Team Goals
MAR	3	5
ALG	5	10
ANG	O	1
ARG	111	44
AUS	7	11
AUT	31	17
BEL	27	16
BIH	3	1
BOL	1	3
BRA	180	78
BUL	11	10
CAN	O	1
CHI	25	11
CHN	O	2
CIV	5	3
CMR	11	23
COL	11	6
CRC	7	10
CRO	3	6
CUB	5	4
CZE	O	4
DEN	13	13
ECU	4	3
ENG	54	20
ESP	50	30
FRA	68	31
FRG	99	36
GDR	3	2
GER	69	32
GHA	4	5



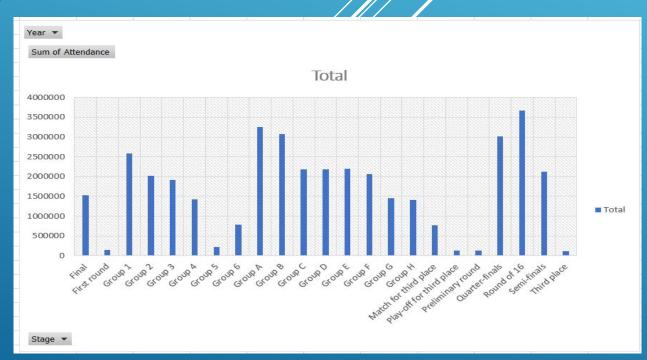
## 3.ANALYZING THE TOTAL ATTENDANCE OF CROWD IN GROUP MATCHES, SEMI-FINALS AND FINALS

Describes the total attendance based on the group A,B,C,D and semifinals and finals and determining which stadium to be chosen, approx. amount of people expected security required etc.

#### Specific function and requirements:

We have to create a pivot table. No specific functions are used. We then put the type of match and sum of sales in the columns

Year	(AII)	-
Sections	Sum of Attendance	
Final		1527673
First round		145083
Group 1		2583172
Group 2		2020264
Group 3		1919199
Group 4		1425366
Group 5		212124
Group 6		787903
Group A		3259281
Group B		3082072
Group C		2184717
Group D		2180512
Group E		2192444
Group F		2056362
Group G		1455995
Group H		1402411
Match for third place		762718
Play-off for third place		136068
Preliminary round		135000
Quarter-finals		3016034
Round of 16		3664279
Semi-finals		2125920
Third place		115483
Grand Total		38390080



#### 4.COUNTRY WINNING THE MAXIMUM WORLD CUP

#### **Description:**

Determines the country with maximum FIFA world cup trophy.

#### Specific function and requirements:

We have to create a pivot table. No specific functions are used.

Country	▼ Count of Winner
Argentina	1
Brazil	2
Chile	1
England	1
France	2
G <mark>ermany</mark>	2
Italy	2
Korea/Japan	1
Mexico	2
South Africa	1
Spain	1
Sweden	1
Switzerland	1
Uruguay	1
USA	1
Grand Total	20

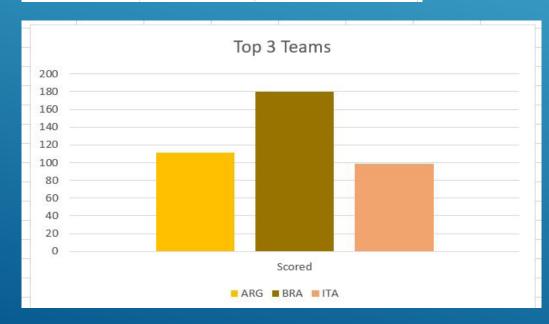


## 5.ANALYZING DIFFERENCE BETWEEN TOTAL GOALS SCORED AND TOTAL GOALS CONCEDED

#### **Description:**

Difference between goals scored and conceded by teams.

Row Labels		Scored	T,	Conceded	Ţ
ARG			11	Conceded	44
BRA			80		78
ITA			99		41
11.517/45					





#### 6.HALF TIME GOALS SCORED BY THE HOME AND AWAY TEAMS

Total number of goals scored by home and away teams year by year from the year 1930 to 2014 to depict the mental confidence and usual trend of goals scored. From the trend given below we can see home team scores 604 goals in foist half and away team scores 365 goals. There is a massive goal difference leading to home team advantage.

#### Specific function and requirements

We have to create a pivot table to determine the difference in goals and then visualize it on graph.



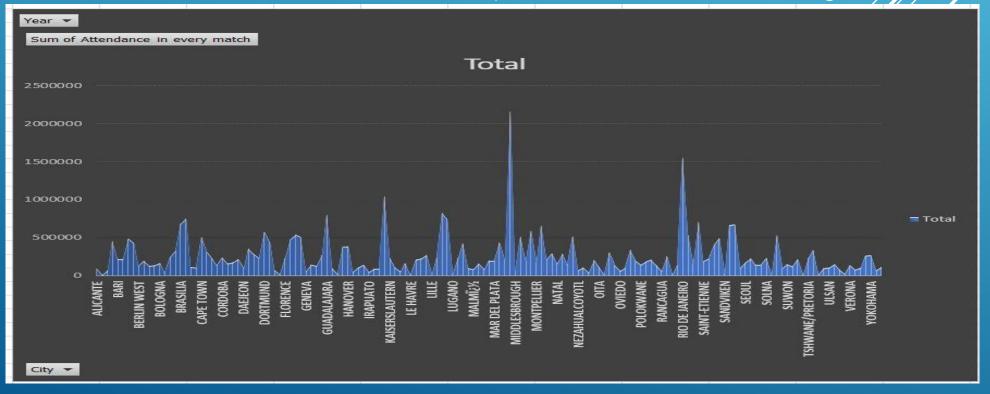
#### 7. OVERALL ATTENDANCE FOR A PARTICULAR CITY UNTIL NOW

#### **Description:**

Determine the sum of attendance of all the people when they are home team.

#### Visualization:

We visualize the above results with the help of area chart created using area thank.



#### 8.NO. OF PEOPLE CAME TO VIEW MATCH FOR PARTICULAR TEAM

#### **Description:**

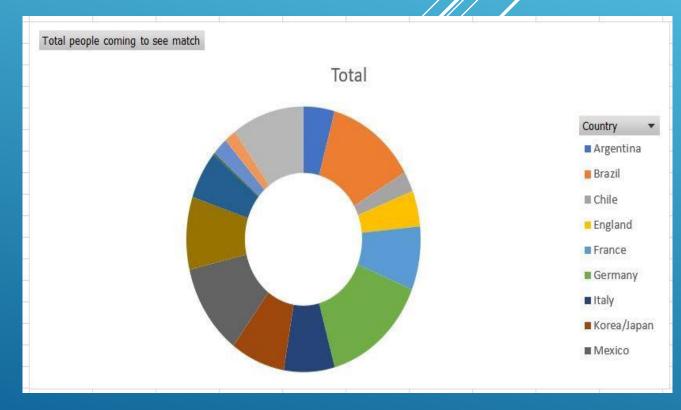
By comparing the attendance of all cities we get top 5 cities with highest audience,

#### Specific function and requirements:

We get cities with highest fans.here we potray top 5 countries with highest attendence and snips of

data.

Country Total people cor	ming to see match
Argentina	1545791
Brazil	4432056
Chile	893172
England	1563135
France	2788857
Germany	5225192
Italy	2516578
Korea/Japan	2705197
Mexico	3998006
South Africa	3178856
Spain	2109723
Sweden	81981
Switzerland	768607
Uruguay	590549
USA	3587538
Grand Total	35985238



## 9.NUMBER OF PEOPLE CAME TO VIEW MATCH FOR A PARTICULAR TEAM

Most people came to see match for brazil then argentina, Italy England and so on...

