

Valdecir Hideki Nakao – Análise de dados Euro Soccer

Para a realização do teste foi instalada a máquina virtual oracle na versão 7.0, onde foi criada uma máquina virtual com 3 processadores, 4Gb de Memória RAM, 25Gb de memória com a placa de rede sendo utilizada em modo bridge para a instalação do sistema operacional Linux Ubuntu LTS 20.04.

Posteriormente foi instalado o servidor Apache2, o gerenciador de banco de dados MySQL e o MySQL Workbench.

Feito isso, acessamos o git na url especificada para clonar o repositório do teste conforme solicitado.

Após clonar, foi criada uma nova branch para inclusões futuras dos arquivos e banco de dados utilizados.

Feito isso, criou-se o front end e o backend no arquivo listagem.php onde foi utilizada a linguagem php em conjunto com a linguagem de marcação HTML para exibição da página solicitada.

Para efeitos de estética, utilizou-se o framework w3css.

Leagues

Id	Name	Notation
1	Premier League	EPL
2	Serie A	Serie_A
3	Bundesliga	Bundesliga
4	La Liga	La_liga
5	Ligue 1	Ligue_1

2016 Top Scorer

Player Name	Goals
Lionel Messi	43

Teams

Id	Name
100	Palermo
101	Genoa
102	Sampdoria
103	Cagliari
104	Sassuolo
105	Napoli
106	Inter
107	Atalanta
108	Empoli
109	Chievo

Players

Id	Name
1	Christian Matheria
10	Jen Rosenthal
100	Edgar Prib
1000	Federico Fazio
1001	Peter Odemwingie
1003	Pablo Maffeo
1004	Joe Cole
1006	Luke Shaw
1007	Steve Sidwell
1008	Brown Ideye

3 Top Scorer Teams

Team	Goals
Barcelona	698
Paris Saint Germain	642
Real Madrid	628

The most balanced games in the season with more goals

HomeTeam	AwayTeam	drawProbability
Genoa	Empoli	0.7027
Real Sociedad	Espanyol	0.6998
SC Bastia	Nancy	0.6821
Espanyol	Athletic Club	0.6709
Nantes	Lille	0.608

Shots

gameId	shooterID	assisterID	minute	situation	lastAction	shotType	shotResult	xGoal	positionX	positionY
81	554	NA	27	DirectFreekick	Standard	LeftFoot	BlockedShot	0.104346722364426	0.794000015258789	0.420999984741211
81	555	631	27	SetPiece	Pass	RightFoot	BlockedShot	0.064342200756073	0.86	0.627000007629395
81	554	629	35	OpenPlay	Pass	LeftFoot	BlockedShot	0.0571568161249161	0.843000030517578	0.332999992370605
81	554	NA	35	OpenPlay	Tackle	LeftFoot	MissedShots	0.0921413898468018	0.848000030517578	0.532999992370605
81	555	654	40	OpenPlay	BallRecovery	RightFoot	BlockedShot	0.0357420146465302	0.8119999969482422	0.7069999969482422
81	555	629	49	OpenPlay	Pass	LeftFoot	MissedShots	0.0212246645241976	0.725	0.545
81	631	NA	64	OpenPlay	None	RightFoot	SavedShot	0.103004261851311	0.895999984741211	0.597000007629395

Figura 1-Página contendo a tabela de ligas, times, players, 3 Top Scorers Teams e Os jogos mais equilibrados da temporada com o maior numero de gols.

Shots

gameId	shooterID	assisterID	minute	situation	lastAction	shotType	shotResult	xGoal	positionX	positionY
81	554	NA	27	DirectFreekick	Standard	LeftFoot	BlockedShot	0.104346722364426	0.794000015258789	0.420999984741211
81	555	631	27	SetPiece	Pass	RightFoot	BlockedShot	0.064342200756073	0.86	0.627000007629395
81	554	629	35	OpenPlay	Pass	LeftFoot	BlockedShot	0.0571568161249161	0.843000030517578	0.332999992370605
81	554	NA	35	OpenPlay	Tackle	LeftFoot	MissedShots	0.0921413898468018	0.848000030517578	0.532999992370605
81	555	654	40	OpenPlay	BallRecovery	RightFoot	BlockedShot	0.0357420146465302	0.8119999969482422	0.7069999969482422
81	555	629	49	OpenPlay	Pass	LeftFoot	MissedShots	0.0212246645241976	0.725	0.545
81	631	NA	64	OpenPlay	None	RightFoot	SavedShot	0.103004261851311	0.895999984741211	0.597000007629395
81	629	557	72	OpenPlay	Cross	RightFoot	MissedShots	0.106513060629368	0.89	0.534000015258789
81	629	NA	76	DirectFreekick	Standard	RightFoot	MissedShots	0.0430676527321339	0.7469999969482422	0.694000015258789
81	646	647	4	OpenPlay	Chipped	LeftFoot	MissedShots	0.297303676605225	0.9019999969482422	0.61

TeamStats

gameId	teamID	season	date	location	goals	xgoals	shots	shotsOnTarget	deep	ppda	fouls	corners	yellowCards	redCards	result
81	89	2015	2015-08-08 15:45:00	h	1		9	1	4	13.8261	12	1	2	0	W
81	82	2015	2015-08-08 15:45:00	a	0		9	4	10	8.2188	12	2	3	0	L
82	73	2015	2015-08-08 18:00:00	h	0		11	2	11	6.9	13	6	3	0	L
82	71	2015	2015-08-08 18:00:00	a	1		7	3	2	11.8462	13	3	4	0	W
83	72	2015	2015-08-08 18:00:00	h	2		10	5	5	6.65	7	8	1	0	D
83	90	2015	2015-08-08 18:00:00	a	2		11	5	4	17.1579	13	2	2	0	D
84	75	2015	2015-08-08 18:00:00	h	4		19	8	5	10.88	13	6	2	0	W

Figura 2-Tabela de chutes das temporadas analisadas

localhost/fistagem.php

TeamStats

gameId	teamID	season	date	location	goals	xgoals	shots	shotsOnTarget	deep	ppda	fouls	corners	yellowCards	redCards	result
81	89	2015	2015-08-08 15:45:00	h	1		9	1	4	13.8261	12	1	2	0	W
81	82	2015	2015-08-08 15:45:00	a	0		9	4	10	8.2188	12	2	3	0	L
82	73	2015	2015-08-08 18:00:00	h	0		11	2	11	6.9	13	6	3	0	L
82	71	2015	2015-08-08 18:00:00	a	1		7	3	2	11.8462	13	3	4	0	W
83	72	2015	2015-08-08 18:00:00	h	2		10	5	5	6.65	7	8	1	0	D
83	90	2015	2015-08-08 18:00:00	a	2		11	5	4	17.1579	13	2	2	0	D
84	75	2015	2015-08-08 18:00:00	h	4		19	8	5	10.88	13	6	2	0	W
84	77	2015	2015-08-08 18:00:00	a	2		11	5	6	9.5556	17	3	4	0	L
85	79	2015	2015-08-08 18:00:00	h	1		17	6	5	5.7368	14	1	1	0	L
85	78	2015	2015-08-08 18:00:00	a	3		11	7	10	10.625	20	4	0	0	W

Appearances

gameId	playerID	goals	ownGoals	shots	xGoals	xGoalsBuildup	assists	keyPasses	xAssists	position	positionOrder	yellowCard	redCard	time	substituteIn	substituteOut	leagueID
81	560	0	0	0	0	0	0	0	0	GK	1	0	0	90	0	0	1
81	557	0	0	0	0	0.106513060629368	0	1	0.106513060629368	DR	2	0	0	82	222605	0	1
81	548	0	0	0	0	0.127737730741501	0	0	0	DC	3	0	0	90	0	0	1
81	628	0	0	0	0	0.106513060629368	0	0	0	DC	3	0	0	90	0	0	1
81	1006	0	0	0	0	0.0212246645241976	0	0	0	DL	4	0	0	90	0	0	1
81	551	0	0	0	0	0.163669869303703	0	0	0	DMC	7	0	0	90	0	0	1
81	654	0	0	0	0	0	0	1	0.0357420146465302	DMC	7	0	0	61	222606	0	1
81	554	0	0	3	0	0.106513060629368	0	0	0	AMR	11	1	0	90	0	0	1
81	555	0	0	3	0	0	0	0	0	AMC	12	0	0	69	222607	0	1
81	631	0	0	1	0	0.0212246645241976	0	1	0.064342200756073	AML	13	0	0	90	0	0	1

Figura 3-Tabelas com as análise estatísticas dos times

Appearances																	
gameId	playerID	goals	ownGoals	shots	xGoals	xGoalsBuildup	assists	keyPasses	xAssists	position	positionOrder	yellowCard	redCard	time	substituteIn	substituteOut	leagueID
81	560	0	0	0	0	0	0	0	0	GK	1	0	0	90	0	0	1
81	557	0	0	0	0	0.106513060629368	0	1	0.106513060629368	DR	2	0	0	82	222605	0	1
81	548	0	0	0	0	0.127737730741501	0	0	0	DC	3	0	0	90	0	0	1
81	628	0	0	0	0	0.106513060629368	0	0	0	DC	3	0	0	90	0	0	1
81	1006	0	0	0	0	0.0212246645241976	0	0	0	DL	4	0	0	90	0	0	1
81	551	0	0	0	0	0.163669869303703	0	0	0	DMC	7	0	0	90	0	0	1
81	654	0	0	0	0	0	0	1	0.0357420146465302	DMC	7	0	0	61	222606	0	1
81	554	0	0	3	0	0.106513060629368	0	0	0	AMR	11	1	0	90	0	0	1
81	555	0	0	3	0	0	0	0	0	AMC	12	0	0	69	222607	0	1
81	631	0	0	1	0	0.0212246645241976	0	1	0.064342200756073	AML	13	0	0	90	0	0	1

Games																
gameId	leagueID	season	date	homeTeamID	awayTeamID	homeGoals	awayGoals	homeProbability	drawProbability	awayProbability	homeGoalsHalfTime	awayGoalsHalfTime	B36SH	B36SD	B36SL	
100	1	2015	2015-08-17 23:00:00	87	73	1	0	0.8133	0.1411	0.0456	1	0	1.45	4.75	8	
1000	2	2016	2016-10-15 17:00:00	105	95	1	3	0.3336	0.2516	0.4148	0	1	2	3.5	3.8	
10000	4	2018	2018-09-23 18:00:00	153	147	2	2	0.5188	0.3032	0.178	0	2	2.14	3.3	3.6	
10001	4	2018	2018-09-22 11:00:00	145	158	1	5	0.2932	0.327	0.3798	1	2	2.04	3.4	3.6	
10002	4	2018	2018-09-23 10:00:00	151	138	2	6	0.1703	0.1803	0.6494	1	4	3.5	3.6	2.04	

Figura 4-Tabelas com as análise estatísticas das principais aparições nas temporadas.

81	551	0	0	0	0	0.163669869303703	0	0	0	DMC	7	0	0	90	0	0	1
81	654	0	0	0	0	0	0	1	0.0357420146465302	DMC	7	0	0	61	222606	0	1
81	554	0	0	3	0	0.106513060629368	0	0	0	AMR	11	1	0	90	0	0	1
81	555	0	0	3	0	0	0	0	0	AMC	12	0	0	69	222607	0	1
81	631	0	0	1	0	0.0212246645241976	0	1	0.064342200756073	AML	13	0	0	90	0	0	1

Games																
gameId	leagueID	season	date	homeTeamID	awayTeamID	homeGoals	awayGoals	homeProbability	drawProbability	awayProbability	homeGoalsHalfTime	awayGoalsHalfTime	B36SH	B36SD	B36SL	
100	1	2015	2015-08-17 23:00:00	87	73	1	0	0.8133	0.1411	0.0456	1	0	1.45	4.75	8	
1000	2	2016	2016-10-15 17:00:00	105	95	1	3	0.3336	0.2516	0.4148	0	1	2	3.5	3.8	
10000	4	2018	2018-09-23 18:00:00	153	147	2	2	0.5188	0.3032	0.178	0	2	2.14	3.3	3.6	
10001	4	2018	2018-09-22 11:00:00	145	158	1	5	0.2932	0.327	0.3798	1	2	2.04	3.4	3.6	
10002	4	2018	2018-09-23 10:00:00	151	138	2	6	0.1703	0.1803	0.6494	1	4	3.5	3.6	2.04	
10003	4	2018	2018-09-21 18:00:00	232	140	0	1	0.3805	0.5118	0.1077	0	0	3.6	3.4	2.1	
10004	4	2018	2018-09-22 14:15:00	156	159	1	0	0.6418	0.2387	0.1195	0	0	2.04	3.2	4	
10005	4	2018	2018-09-22 14:15:00	152	231	3	3	0.3706	0.2433	0.3861	2	1	1.75	3.5	5.25	
10006	4	2018	2018-09-23 14:15:00	154	146	0	0	0.2903	0.4978	0.2119	0	0	2.25	3.25	3.3	
10007	4	2018	2018-09-27 18:00:00	158	142	1	1	0.4926	0.2698	0.2376	0	0	2.8	3	2.75	

Figura 5-Tabela com as principais estatísticas dos jogos das temporadas