

Data Model Soccer Descriptions

Design Name	datamodelsoccer
Version Date	17.06.2021 02:27:27
Version Comment	
Model Name	Data Model Soccer

SubViews

SubView	Description	Notes	Object
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Table Name	AGGREGATED_GAME_DATA_SUB_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the aggregated to 5 minute an 15 minute periods game data of the substitutions
Notes	

Number Of Columns	13
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9)	LT				
2	STARTTIME				NUMERIC (9)	LT				
3	ENDTIME				NUMERIC (9)	LT				
4	GAME_ID		F	Y	NUMERIC (9)	LT				
5	PARAMETER_CODE		F	Y	VARCHAR (5 BYTE)	LT				
6	HALF_INDICATOR				VARCHAR (3 BYTE)	LT				
7	CLUB_ID				NUMERIC	LT				
8	DIFFERENCE_START_END_PRR_IND				VARCHAR (3 BYTE)	LT				
9	PLAYER_ID				NUMERIC	LT				
10	ORDER_COLUMN				NUMERIC	LT				
11	DISTANCE				NUMERIC	LT				
12	FULL_BIN_SUB				VARCHAR (2 BYTE)	LT				
13	BIN_SUB				NUMERIC (2)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
AGGREGATED_GAME_DATA_SUB_T_PK	PK				ID	ASC
INDEX14					GAME_ID	ASC
					CLUB_ID	ASC
					HALF_INDICATOR	ASC
					ORDER_COLUMN	ASC
INDEX16					PARAMETER_CODE	ASC
					GAME_ID	ASC
					CLUB_ID	ASC
					DISTANCE	ASC
					ORDER_COLUMN	ASC
					HALF_INDICATOR	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
AGGREGATED_GAME_DATA_SUB_T_GAME_DATA_T_F	GAME_DATA_T	Y	Y		GAME_ID	ID	
AGGREGATED_GAME_DATA_SUB_T_PARAMETERS_T_	PARAMETERS_T	Y	Y		PARAMETER_CODE	CODE	

Table Name	AGGREGATED_GAME_DATA_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the aggregated to 5 minute and 15 minute periods game data of the full match players
Notes	

Number Of Columns	13
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9) - AI	LT				
2	STARTTIME				NUMERIC (9)	LT				
3	ENDTIME				NUMERIC (9)	LT				
4	GAME_ID		F	Y	NUMERIC (9)	LT				
5	PARAMETER_CODE		F	Y	VARCHAR (5 BYTE)	LT				
6	PARAMETER_ID				NUMERIC (9)	LT				
7	HALF_INDICATOR				VARCHAR (3 BYTE)	LT				
8	CLUB_ID				NUMERIC	LT				
9	DIFFERENCE_START_END_PRR_IND				VARCHAR (3 BYTE)	LT				
10	PLAYER_ID				NUMERIC	LT				
11	FULL_GAME_IND				VARCHAR (3 BYTE)	LT				
12	ORDER_COLUMN				NUMERIC	LT				
13	DISTANCE				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
AGGREGATED_GAME_DATA_T_PK	PK				ID	ASC
AGG_GME_DATA_IDX1					GAME_ID	ASC
					PLAYER_ID	ASC
					PARAMETER_CODE	ASC
AGG_GME_DATA_IDX2					PARAMETER_CODE	ASC
					HALF_INDICATOR	ASC
					CLUB_ID	ASC
					GAME_ID	ASC
					PLAYER_ID	ASC
					ORDER_COLUMN	ASC
GAME_ID					GAME_ID	ASC
ID_IDX	UN				ID	ASC
INDEX15					PARAMETER_CODE	ASC
					DISTANCE	ASC
					GAME_ID	ASC
					CLUB_ID	ASC
					ORDER_COLUMN	ASC
					HALF_INDICATOR	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
AGGREGATED_GAME_DATA_T_PARAMETERS_T_FK	PARAMETERS_T	Y	Y		PARAMETER_CODE	CODE	
AGGREGATED_GAME_DATA_T_GAME_DATA_T_FK	GAME_DATA_T	Y	Y		GAME_ID	ID	

Table Name	CLUBS_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the anonymized club names
Notes	

Number Of Columns	2
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9) - AI	LT				
2	NAME			Y	VARCHAR (100 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CLUB_PK	PK				ID	ASC
CLUB_PK	UN				ID	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
HOME_CLUB_FK	GAMES_T		Y		HOME_CLUB_ID	ID	
PLAYERS_CLUBS_T_CLUB_FK	PLAYERS_CLUBS_T		Y		CLUB_ID	ID	
VISITING_CLUB_FK	GAMES_T		Y		VISITING_CLUB_ID	ID	

Table Name	GAMES_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the match data
Notes	

Number Of Columns	6
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9) - AI	LT				
2	DATE				Date (7)	LT				
3	HOME_CLUB_ID		F		NUMERIC (9)	LT				
4	VISITING_CLUB_ID		F		NUMERIC (9)	LT				
5	RESULT				VARCHAR (20 BYTE)	LT				
6	NAME				VARCHAR (50 BYTE)	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
GAMES_T_PK	PK				ID	ASC
GAMES_T_PK	UN				ID	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
HOME_CLUB_FK	CLUBS_T		Y		HOME_CLUB_ID	ID	
VISITING_CLUB_FK	CLUBS_T		Y		VISITING_CLUB_ID	ID	

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
GAME_DATA_T_GAMES_T_FK	GAME_DATA_T		Y		GAME_ID	ID	
KEEPERS_GAMES_T_GAMES_T_FK	KEEPERS_GAMES_T	Y	Y		GAME_ID	ID	

Table Name	GAME_DATA_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the 10th of a second position data of the players,referee and ball
Notes	

Number Of Columns	12
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (20) - AI	LT				
2	TIMESTAMP				NUMERIC	LT				
3	ACCELERATION				NUMERIC	LT				
4	DISTANCE_TO_CLOSEST_HOME				NUMERIC	LT				
5	DISTANCE_TO_CLOSEST_VISITOR				NUMERIC	LT				
6	SHIRT				NUMERIC	LT				
7	GAME_ID		F		NUMERIC (9)	LT				
8	PLAYER_ID		F		NUMERIC (9)	LT				
9	SPEED				NUMERIC	LT				
10	X				NUMERIC	LT				
11	Y				NUMERIC	LT				
12	CLUB_ID				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
GAME_DATA_T_PK	PK				ID	ASC
GAME_DATA_T_PK	UN				ID	ASC
INDEX9					ACCELERATION	ASC
PLAYERS_GAME_IDX					PLAYER_ID	ASC
					GAME_ID	ASC
PLAYERS_T_ID_IDX					TIMESTAMP	ASC
					PLAYER_ID	ASC
PLAYER_GAME_SPEED_TIMES_IDX					GAME_ID	ASC
					PLAYER_ID	ASC
					TIMESTAMP	ASC
					SPEED	ASC
PLAYER_GAME_TIMESTAMP_X_INDEX					TIMESTAMP	ASC
					GAME_ID	ASC
					PLAYER_ID	ASC
					X	ASC
PLAYER_ID_IDX					PLAYER_ID	ASC
TIMESTAMP_INDEX					TIMESTAMP	ASC
					PLAYER_ID	ASC
					GAME_ID	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
GAME_DATA_T_PLAYERS_T_FK	PLAYERS_T		Y		PLAYER_ID	ID	
GAME_DATA_T_GAMES_T_FK	GAMES_T		Y		GAME_ID	ID	

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
AGGREGATED_GAME_DATA_SUB_T_GAME_DATA_T_F	AGGREGATED_GAME_DATA_SUB_T	Y	Y		GAME_ID	ID	
AGGREGATED_GAME_DATA_T_GAME_DATA_T_FK	AGGREGATED_GAME_DATA_T	Y	Y		GAME_ID	ID	

Table Name	<u>KEEPERS_GAMES_T</u>
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the keepers of a match
Notes	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	GAME_ID	P	F	Y	NUMERIC (9)	LT				
2	PLAYER_ID	P	F	Y	NUMERIC (9)	LT				
3	MIN_TIMESTAMP				NUMERIC	LT				
4	MAX_TIMESTAMP				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
KEEPERS_GAMES_T_PK	PK				GAME_ID	ASC
					PLAYER_ID	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
KEEPERS_GAMES_T_PLAYERS_T_FK	PLAYERS_T	Y	Y		PLAYER_ID	ID	
KEEPERS_GAMES_T_GAMES_T_FK	GAMES_T	Y	Y		GAME_ID	ID	

Table Name	PARAMETERS_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the parameters for the time periods (Bin)
Notes	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	CODE	P		Y	VARCHAR (5 BYTE)	LT				
2	NAME			Y	VARCHAR (50 BYTE)	LT				
3	DESCRIPTION				VARCHAR (200 BYTE)	LT				
4	VALUE				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
PARAMETERS_T_PK	PK				CODE	ASC
PARAMETERS_T_PK	UN				CODE	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
AGGREGATED_GAME_DATA_SUB_T_PARAMETERS_T_	AGGREGATED_GAME_DATA_SUB_T	Y	Y		PARAMETER_CODE	CODE	
AGGREGATED_GAME_DATA_T_PARAMETERS_T_FK	AGGREGATED_GAME_DATA_T	Y	Y		PARAMETER_CODE	CODE	

Table Name	<u>PLAYERS_CLUBS_T</u>
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the club player combinations
Notes	

Number Of Columns	6
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9) - AI	LT				
2	BEGINDATE				Date (7)	LT				
3	ENDDATE				Date (7)	LT				
4	CLUB_ID		F		NUMERIC (9)	LT				
5	PLAYER_ID		F		NUMERIC (9)	LT				
6	GAME_ID				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
PLAYERS_CLUBS_T_PK	PK				ID	ASC
PLAYERS_CLUBS_T_PK	UN				ID	ASC

Foreign Keys (referring to)

Name	Referring To	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
PLAYERS_CLUBS_T_CLUB_FK	CLUBS_T		Y		CLUB_ID	ID	
PLAYERS_CLUBS_T_PLAYERS_FK	PLAYERS_T		Y		PLAYER_ID	ID	

Table Name	PLAYERS_T
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	
MV Prebuilt	
MV Query	

Description	Contains the anonymized players
Notes	

Number Of Columns	4
Number Of Rows Min.	0
Number Of Rows Max.	9999999
Expected Number Of Rows	0
Expected Growth	0
Growth Interval	Year

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	ID	P		Y	NUMERIC (9) - AI	LT				
2	NAME			Y	VARCHAR (100 BYTE)	LT				
3	SHIRT				NUMERIC (9)	LT				
4	WEIGHT				NUMERIC	LT				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
PLAYERS_PK	PK				ID	ASC
PLAYERS_PK	UN				ID	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
GAME_DATA_T_PLAYERS_T_FK	GAME_DATA_T		Y		PLAYER_ID	ID	
KEEPERS_GAMES_T_PLAYERS_T_FK	KEEPERS_GAMES_T	Y	Y		PLAYER_ID	ID	

Name	Referred From	Mandatory	Transferable	In Arc	Columns	Referred Columns	Delete Rule
PLAYERS_CLUBS_T_PLAYERS_FK	PLAYERS_CLUBS_T		Y		PLAYER_ID	ID	