

Attribute	Primary Key	Nullable	DataType	Description
gmDate	yes	no	date	Game date
gmTime		no	time	Game scheduled start time (ET)
seasTyp		no	varchar(7)	Season Type

Codes:	Pre	Pre season
	Regular	Regular season
	Post	Post season

offLNm1		no	varchar(20)	Official 1 last name
offFNm1		no	varchar(20)	Official 1 first name
offLNm2		no	varchar(20)	Official 2 last name
offFNm2		no	varchar(20)	Official 2 first name
offLNm3		no	varchar(20)	Official 3 last name
offFNm3		no	varchar(20)	Official 3 first name
teamAbbr	yes	no	varchar(5)	Abbreviation of team

Codes:	ATL	Atlanta Hawks
	BKN	Brooklyn Nets
	BOS	Boston Celtics
	CHA	Charlotte Hornets
	CHI	Chicago Bulls
	CLE	Cleveland Cavaliers
	DAL	Dallas Mavericks
	DEN	Denver Nuggets
	DET	Detroit Pistons
	GS	Golden State Warriors
	HOU	Houston Rockets
	IND	Indiana Pacers
	LAC	Los Angeles Clippers
	LAL	Los Angeles Lakers
	MEM	Memphis Grizzlies
	MIA	Miami Heat
	MIL	Milwaukee Bucks
	MIN	Minnesota Timberwolves
	NO	New Orleans Pelicans
	NY	New York Knicks
	OKC	Oklahoma City Thunder
	ORL	Orlando Magic
	PHI	Philadelphia 76ers
	PHO	Phoenix Suns
	POR	Portland Trail Blazers
	SA	San Antonio Spurs
	SAC	Sacramento Kings
	TOR	Toronto Raptors
	UTA	Utah Jazz
	WAS	Washington Wizards

teamConf no varchar(4) Identifies conference of team

Codes:	East	Eastern Conference
	West	Western Conference

teamDiv no varchar(9) Identifies division of team

Codes:	Atlantic	Atlantic division
	Central	Central division
	Northwest	Northwest division
	Pacific	Pacific division
	Southeast	Southeast division
	Southwest	Southwest division

teamLoc no varchar(4) Identifies whether team is home or visitor

Codes:	Away	Away team
	Home	Home team

teamRslt no varchar(4) Identifies whether team has won or lost

Codes:	Loss	Team loss
	Win	Team win

teamMin no smallint(6) Accumulated player minutes by team

teamDayOff no smallint(6) Number of days since last game played by team

teamPTS no smallint(6) Points scored by team

teamAST no smallint(6) Assists made by team

teamTO no smallint(6) Turnovers made by team

teamSTL no smallint(6) Steals made by team

teamBLK no smallint(6) Blocks made by team

teamPF no smallint(6) Personal fouls made by team

teamFGA no smallint(6) Field goal attempts made by team

teamFGM no smallint(6) Field goal shots made by team

teamFG% no float Field goal percentage made by team

team2PA no smallint(6) Two point attempts made by team

team2PM no smallint(6) Two point shots made by team

team2P% no float Two point percentage made by team

team3PA no smallint(6) Three point attempts made by team

team3PM	no	smallint(6)	Three point shots made by team
team3P%	no	float	Three point percentage made by team
teamFTA	no	smallint(6)	Free throw attempts made by team
teamFTM	no	smallint(6)	Free throw shots made by team
teamFT%	no	float	Free throw percentage made by team
teamORB	no	smallint(6)	Offensive rebounds made by team
teamDRB	no	smallint(6)	Defensive rebounds made by team
teamTRB	no	smallint(6)	Total rebounds made by team
teamPTS1	no	smallint(6)	Points scored in quarter 1 by team
teamPTS2	no	smallint(6)	Points scored in quarter 2 by team
teamPTS3	no	smallint(6)	Points scored in quarter 3 by team
teamPTS4	no	smallint(6)	Points scored in quarter 4 by team
teamPTS5	no	smallint(6)	Points scored in quarter 5 by team
teamPTS6	no	smallint(6)	Points scored in quarter 6 by team
teamPTS7	no	smallint(6)	Points scored in quarter 7 by team
teamPTS8	no	smallint(6)	Points scored in quarter 8 by team
teamTREB%	no	float	Total rebound percent by team

Calculation: $\text{teamRebTot} * 100 / (\text{teamRebTot} + \text{opptRebTot})$

teamASST%	no	float	Assisted field goal percent by team
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Calculation: $\text{teamAST} / \text{teamFGM}$

teamTS%	no	float	True shooting percentage by team
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Calculation: $\text{teamPTS} / (2 * (\text{teamFGA} + (\text{teamFTA} * 0.44)))$

teamEFG%	no	float	Effective field goal percent by team
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Calculation: $\text{teamFGM} + (0.5 * \text{team3PM}) / \text{teamFGA}$

teamOREB%	no	float	Offensive rebound percent by team
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Calculation: $\text{teamORB} * 100 / (\text{teamORB} + \text{opptDRB})$

teamDREB%	no	float	Defensive rebound percent by team
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Calculation: $\text{teamDRB} * 100 / (\text{teamDRB} + \text{opptORB})$

teamTO%	no	float	Turnover percentage by team
Calculation: $\text{teamTO} * 100 / (\text{teamFGA} + 0.44 * \text{teamFTA} + \text{teamTO})$			
teamSTL%	no	float	Steal percentage by team
Calculation: $\text{teamSTL} * 100 / \text{Poss}$			
teamBLK%	no	float	Block percentage by team
Calculation: $\text{teamBLK} * 100 / \text{Poss}$			
teamBLKR	no	float	Block rate by team
Calculation: $\text{teamBLK} * 100 / \text{oppt2PA}$			
teamPPS	no	float	Points per shot by team
Calculation: $\text{teamPTS} / \text{teamFGA}$			
teamFIC	no	float	Floor impact counter for team
Calculation: $\text{teamPTS} + \text{teamORB} + 0.75 * \text{teamDRB} + \text{teamAST} + \text{teamSTL} + \text{teamBLK} - 0.75 * \text{teamFGA} - 0.375 * \text{teamFTA} - \text{teamTO} - 0.5 * \text{teamPF}$			
teamFIC40	no	float	Floor impact counter by team per 40 minutes
Calculation: $((\text{teamPTS} + \text{teamORB} + 0.75 * \text{teamDRB} + \text{teamAST} + \text{teamSTL} + \text{teamBLK} - 0.75 * \text{teamFGA} - 0.375 * \text{teamFTA} - \text{teamTO} - 0.5 * \text{teamPF}) * 40 * 5) / \text{teamMin}$			
teamOrtg	no	float	Offensive rating for team
Calculation: $\text{teamPTS} * 100 / \text{Poss}$			
teamDrtg	no	float	Defensive rating for team
Calculation: $\text{opptPTS} * 100 / \text{Poss}$			
teamEDiff	no	float	Efficiency differential for team
Calculation: $\text{teamOrtg} - \text{teamDrtg}$			
teamPlay%	no	float	Play percentage for team
Calculation: $\text{teamFGM} / (\text{teamFGA} - \text{teamORB} + \text{teamTO})$			
teamAR	no	float	Assist rate for team
Calculation: $(\text{teamAST} * 100) / (\text{teamFGA} - 0.44 * \text{teamFTA} + \text{teamAST} + \text{teamTO})$			
teamAST/TO	no	float	Assist to turnover ratio for team
Calculation: $\text{teamAST} / \text{teamTO}$			

teamSTL/TO no float Steal to turnover ratio for team

Calculation: teamSTL / teamTO

opptAbbr no varchar(5) Abbreviation of opponent

Codes:	ATL	Atlanta Hawks
	BKN	Brooklyn Nets
	BOS	Boston Celtics
	CHA	Charlotte Hornets
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	DEN	Denver Nuggets
	DET	Detroit Pistons
	GS	Golden State Warriors
	HOU	Houston Rockets
	IND	Indiana Pacers
	LAC	Los Angeles Clippers
	LAL	Los Angeles Lakers
	MEM	Memphis Grizzlies
	MIA	Miami Heat
	MIL	Milwaukee Bucks
	MIN	Minnesota Timberwolves
	NO	New Orleans Pelicans
	NY	New York Knicks
	OKC	Oklahoma City Thunder
	ORL	Orlando Magic
	PHI	Philadelphia 76ers
	PHO	Phoenix Suns
	POR	Portland Trail Blazers
	SA	San Antonio Spurs
	SAC	Sacramento Kings
	TOR	Toronto Raptors
	UTA	Utah Jazz
	WAS	Washington Wizards

opptConf no varchar(4) Identifies conference of opponent

Codes:	East	Eastern Conference
	West	Western Conference

opptDiv no varchar(9) Identifies division of opponent

Codes:	Atlantic	Atlantic division
	Central	Central division
	Northwest	Northwest division
	Pacific	Pacific division
	Southeast	Southeast division
	Southwest	Southwest division

opptLoc no varchar(4) Identifies whether opponent is home or visitor

Codes:	Away	Away team
	Home	Home team

opptRslt	no	varchar(4)	Identifies whether opponent has won or lost
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Codes:	Loss	Team loss
	Win	Team win

opptMin	no	smallint(6)	Accumulated player minutes by opponent
opptDayOff	no	smallint(6)	Number of days since last game played by opponent
opptPTS	no	smallint(6)	Points scored by opponent
opptAST	no	smallint(6)	Assists made by opponent
opptTO	no	smallint(6)	Turnovers made by opponent
opptSTL	no	smallint(6)	Steals made by opponent
opptBLK	no	smallint(6)	Blocks made by opponent
opptPF	no	smallint(6)	Personal fouls made by opponent
opptFGA	no	smallint(6)	Field goal attempts made by opponent
opptFGM	no	smallint(6)	Field goal shots made by opponent
opptFG%	no	float	Field goal percentage made by opponent
oppt2PA	no	smallint(6)	Two point attempts made by opponent
oppt2PM	no	smallint(6)	Two point shots made by opponent
oppt2P%	no	float	Two point percentage made by opponent
oppt3PA	no	smallint(6)	Three point attempts made by opponent
oppt3PM	no	smallint(6)	Three point shots made by opponent
oppt3P%	no	float	Three point percentage made by opponent
opptFTA	no	smallint(6)	Free throw attempts made by opponent
opptFTM	no	smallint(6)	Free throw shots made by opponent
opptFT%	no	float	Free throw percentage made by opponent
opptORB	no	smallint(6)	Offensive rebounds made by opponent
opptDRB	no	smallint(6)	Defensive rebounds made by opponent
opptTRB	no	smallint(6)	Total rebounds made by opponent
opptPTS1	no	smallint(6)	Points scored in quarter 1 by opponent
opptPTS2	no	smallint(6)	Points scored in quarter 2 by opponent

opptPTS3	no	smallint(6)	Points scored in quarter 3 by opponent
opptPTS4	no	smallint(6)	Points scored in quarter 4 by opponent
opptPTS5	no	smallint(6)	Points scored in quarter 5 by opponent
opptPTS6	no	smallint(6)	Points scored in quarter 6 by opponent
opptPTS7	no	smallint(6)	Points scored in quarter 7 by opponent
opptPTS8	no	smallint(6)	Points scored in quarter 8 by opponent
opptTREB%	no	float	Total rebound percent by opponent

Calculation: $\text{opptRebTot} * 100 / (\text{opptRebTot} + \text{teamRebTot})$

opptASST%	no	float	Assisted field goal percent by opponent
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Calculation: $\text{opptAST} / \text{opptFGM}$

opptTS%	no	float	True shooting percentage by opponent
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Calculation: $\text{opptPTS} / (2 * (\text{opptFGA} + (\text{opptFTA} * 0.44)))$

opptEFG%	no	float	Effective field goal percent by opponent
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Calculation: $\text{opptFGM} + (0.5 * \text{oppt3PM}) / \text{opptFGA}$

opptOREB%	no	float	Offensive rebound percent by opponent
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Calculation: $\text{opptORB} * 100 / (\text{opptORB} + \text{teamDRB})$

opptDREB%	no	float	Defensive rebound percent by opponent
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Calculation: $\text{opptDRB} * 100 / (\text{opptDRB} + \text{teamORB})$

opptTO%	no	float	Turnover percentage by opponent
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Calculation: $\text{opptTO} * 100 / (\text{opptFGA} + 0.44 * \text{opptFTA} + \text{opptTO})$

opptSTL%	no	float	Steal percentage by opponent
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Calculation: $\text{opptSTL} * 100 / \text{Poss}$

opptBLK%	no	float	Block percentage by opponent
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Calculation: $\text{opptBLK} * 100 / \text{Poss}$

opptBLKR	no	float	Block rate by opponent
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Calculation: $\text{opptBLK} * 100 / \text{team2PA}$

opptPPS	no	float	Points per shot by opponent
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Calculation: $\text{opptPTS} / \text{opptFGA}$

opptFIC	no	float	Floor impact counter for opponent
Calculation:	$\text{opptPTS} + \text{opptORB} + 0.75 * \text{opptDRB} + \text{opptAST} + \text{opptSTL} + \text{opptBLK} - 0.75 * \text{opptFGA} - 0.375 * \text{opptFTA} - \text{opptTO} - 0.5 * \text{opptPF}$		
opptFIC40	no	float	Floor impact counter by opponent per 40 minutes
Calculation:	$((\text{opptPTS} + \text{opptORB} + 0.75 * \text{opptDRB} + \text{opptAST} + \text{opptSTL} + \text{opptBLK} - 0.75 * \text{opptFGA} - 0.375 * \text{opptFTA} - \text{opptTO} - 0.5 * \text{opptPF}) * 40 * 5) / \text{opptMin}$		
opptOrtg	no	float	Offensive rating for opponent
Calculation:	$\text{opptPTS} * 100 / \text{Poss}$		
opptDrtg	no	float	Defensive rating for opponent
Calculation:	$\text{teamPTS} * 100 / \text{Poss}$		
opptEDiff	no	float	Efficiency differential for opponent
Calculation:	$\text{opptOrtg} - \text{opptDrtg}$		
opptPlay%	no	float	Play percentage for opponent
Calculation:	$\text{opptFGM} / (\text{opptFGA} - \text{opptORB} + \text{opptTO})$		
opptAR	no	float	Assist rate for opponent
Calculation:	$(\text{opptAST} * 100) / (\text{opptFGA} - 0.44 * \text{opptFTA} + \text{opptAST} + \text{opptTO})$		
opptAST/TO	no	float	Assist to turnover ratio for opponent
Calculation:	$\text{opptAST} / \text{opptTO}$		
opptSTL/TO	no	float	Steal to turnover ratio for opponent
Calculation:	$\text{opptSTL} / \text{opptTO}$		
poss	no	float	Total team possessions
Calculation:	$\text{teamFGA} - (\text{teamORB} / \text{teamORB} + \text{opptDRB}) * (\text{teamFGA} - \text{teamFGM}) * 1.07 + \text{teamTO} + (0.4 * \text{teamFTA})$		
pace	no	float	Pace per game duration
Calculation:	$(\text{poss} * 48 * 5) / \text{teamMin}$		