

# Dribbble Data Schema Reference

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Complete Field Guide to 226.8M Data Points

v1.0 — March 2026

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# Overview

This document describes every table and column in the Dribble football intelligence dataset. The data covers 23 competitions from 2020/21 through 2025/26, with over 226.8 million individual data points.

The schema is organized into core entity tables (players, teams, matches, seasons, leagues, managers, referees, and transfers) plus two large statistical tables containing detailed per-match performance metrics at both the player and team level.

## Dataset Summary

Dataset	Records	Columns
Players	61,214	14
Player Match Stats	1,040,178	306
Teams	5,440	11
Team Match Stats	59,642	303
Matches	29,821	17
Seasons	152	7
Leagues	27	10
Managers	3,262	11
Referees	4,647	9
Transfers	51,246	7

Total: 226.8M+ individual data points across 10 interconnected tables.

# Entity Relationship Diagram

The diagram below shows how the Dribble tables connect via foreign key relationships. All joins use text-based identifiers.

## Primary Key → Foreign Key Relationships

Source (PK)	Target (FK)
leagues.id	→ seasons.league_id
seasons.id	→ matches.season_id
teams.id	→ matches.home_team_id
teams.id	→ matches.away_team_id
matches.id	→ player_matches.match_id
teams.id	→ player_matches.team_id
players.id	→ player_matches.player_id
matches.id	→ team_matches.match_id
teams.id	→ team_matches.team_id
managers.id	→ manager assignments (via matches)
referees.id	→ referee assignments (via matches)
players.id	→ player_transfers.player_id
teams.id	→ player_transfers.from_team_id
teams.id	→ player_transfers.to_team_id

## Table Hierarchy

## Table Hierarchy



# Core Entity Tables

## players (14 columns)

Column	Type	Description
id	text, PK	Unique player identifier, stable across seasons
first_name	text, nullable	Player's first name
last_name	text, nullable	Player's last name
name	text	Full display name
short_first_name	text, nullable	Abbreviated first name
short_last_name	text, nullable	Abbreviated last name
match_name	text, nullable	Name as shown in match data
known_name	text, nullable	Common/known name (e.g., "Mbappé")
country_id	text, nullable	Nationality reference
last_updated	timestamp	Last data refresh timestamp
slug	text	URL-friendly identifier
short_slug	text, nullable	Short URL slug
match_slug	text, nullable	Match-context slug
api_football_id	integer, nullable	External API cross-reference

## teams (11 columns)

Column	Type	Description
id	text, PK	Unique team identifier
name	text	Full team name
short_name	text, nullable	Abbreviated name
official_name	text, nullable	Official registered name
code	text, nullable	Short code (e.g., "LIV")
country_id	text, nullable	Country reference
last_updated	timestamp	Last refresh
slug	text	URL slug
short_slug	text, nullable	Short URL slug
official_slug	text, nullable	Official slug
api_football_id	integer, nullable	External API reference

## matches (17 columns)

Column	Type	Description
id	text, PK	Unique match identifier
coverage_level	integer	Data coverage depth level
date	timestamp	Match date and kickoff time
description	text	Match description
week	integer	Matchweek/round number
status	enum	Match status: Played, Live, Scheduled, etc.
length_min	integer	Match duration in minutes
length_sec	integer	Match duration in seconds
home_score	integer	Home team final score
away_score	integer	Away team final score
home_team_id	text, FK→teams	Home team reference
away_team_id	text, FK→teams	Away team reference
venue_id	text	Venue/stadium reference

Column	Type	Description
season_id	text, FK→seasons	Season reference
last_updated	timestamp	Last refresh
slug	text	URL slug
api_football_id	integer, nullable	External API reference

## seasons (7 columns)

Column	Type	Description
id	text, PK	Unique season identifier
name	text	Season name (e.g., "2025/2026")
start_date	timestamp	Season start date
end_date	timestamp	Season end date
active	boolean	Whether season is currently active
league_id	text, FK→leagues	League reference
last_updated	timestamp	Last refresh

## leagues (10 columns)

Column	Type	Description
id	text, PK	Unique league identifier
name	text	League name
known_name	text	Common name (e.g., "English Premier League")
code	text	League code
format	text	Competition format (e.g., "League", "Tournament")
country_id	text	Country reference
last_updated	timestamp	Last refresh
slug	text	URL slug
known_slug	text	Known-name URL slug
api_football_id	integer	External API reference

## managers (11 columns)

Column	Type	Description
id	text, PK	Unique manager identifier
team_id	text, FK→teams	Current team reference
first_name	text	Manager's first name
last_name	text	Manager's last name
name	text	Full display name
short_first_name	text	Abbreviated first name
short_last_name	text	Abbreviated last name
last_updated	timestamp	Last refresh
slug	text	URL slug
short_slug	text	Short URL slug
api_football_id	integer	External API reference

## referees (9 columns)

Column	Type	Description
id	text, PK	Unique referee identifier
first_name	text	Referee's first name
last_name	text	Referee's last name
name	text	Full display name
short_first_name	text	Abbreviated first name
short_last_name	text	Abbreviated last name
last_updated	timestamp	Last refresh
slug	text	URL slug
short_slug	text	Short URL slug

## player\_transfers (7 columns)

Column	Type	Description
player_id	text, FK→players	Player reference
start_date	timestamp	Transfer start date
end_date	timestamp, nullable	Transfer end date (null if current)
from_team_id	text, FK→teams, nullable	Source team (null for free agents)
to_team_id	text, FK→teams	Destination team
transfer_currency	text, nullable	Currency of transfer fee
transfer_value	text, nullable	Transfer fee value

# Player Match Stats

The **player\_matches** table contains 306 columns capturing detailed per-match statistics for every player. With 1,040,178 records, this is the largest table in the dataset. Columns are grouped into functional categories below.

## Identity & Context (8 columns)

Column	Type	Description
match_id	text, FK→matches	Match reference
team_id	text, FK→teams	Team the player represented
player_id	text, FK→players	Player reference
shirt_number	integer	Jersey number worn
position	enum	GOALKEEPER, DEFENDER, MIDFIELDER, STRIKER
position_side	enum	Left, Right, Centre
formation_place	integer	Position number in formation
opponent_team_id	text, FK→teams	Opposing team reference

## Core Stats (15 columns)

Column	Type	Description
mins_played	integer	Minutes played
goals	integer	Goals scored
goal_assist	integer	Assists provided
own_goals	integer	Own goals
penalties	integer	Penalties taken
penalty_won	integer	Penalties won
penalty_conceded	integer	Penalties conceded
penalty_save	integer	Penalties saved
red_cards	integer	Red cards received
yellow_cards	integer	Yellow cards received

Column	Type	Description
second_yellow_cards	integer	Second yellow cards
clean_sheet	integer	Clean sheet (1/0)
fouls	integer	Fouls committed
touches	integer	Total touches
total_pass	integer	Total passes attempted

## Expected Metrics (xG/xA) (18 columns)

Column	Type	Description
expected_goals	float	Total expected goals
expected_goals_nonpenalty	float	Non-penalty xG
expected_goals_openplay	float	Open-play xG
expected_goals_setplay	float	Set-piece xG
expected_goals_hd	float	Headed xG
expected_goals_lf	float	Left-foot xG
expected_goals_rf	float	Right-foot xG
expected_goals_freekick	float	Free-kick xG
expected_goals_conceded	float	xG conceded
expected_goals_nonpenalty_conceded	float	Non-penalty xG conceded
expected_goals_ontarget	float	On-target xG
expected_goals_ontarget_nonpenalty	float	On-target non-penalty xG
expected_goals_ontarget_freekick	float	On-target free-kick xG
expected_goals_ontarget_conceded	float	On-target xG conceded
expected_goals_ontarget_nonpenalty_conceded	float	On-target non-pen xG conceded
expected_assists	float	Total expected assists
expected_assists_setplay	float	Set-piece xA
expected_assists_openplay	float	Open-play xA

## Passing (28+ columns)

Column	Type	Description
accurate_pass	integer	Successful passes
total_pass	integer	Total passes attempted
accurate_back_zone_pass	integer	Accurate passes in defensive zone
accurate_fwd_zone_pass	integer	Accurate passes in attacking zone
back_pass	integer	Backward passes
head_pass	integer	Headed passes
long_pass_own_to_opp	integer	Long passes from own half to opposition half
long_pass_own_to_opp_success	integer	Successful long passes own→opp
passes_left	integer	Passes to the left
passes_right	integer	Passes to the right
fwd_pass	integer	Forward passes
accurate_fwd_pass	integer	Accurate forward passes
total_through_ball	integer	Through balls attempted
accurate_through_ball	integer	Successful through balls
total_long_balls	integer	Long balls attempted
accurate_long_balls	integer	Successful long balls
total_cross	integer	Crosses attempted
accurate_cross	integer	Successful crosses
key_pass	integer	Key passes (leading to a shot)
total_att_assist	integer	Total attempted assists
big_chance_created	integer	Big chances created
final_third_entries	integer	Passes into the final third

## Shooting (20+ columns)

Column	Type	Description
total_scoring_att	integer	Total shots
ontarget_scoring_att	integer	Shots on target

Column	Type	Description
blocked_scoring_att	integer	Shots blocked
shot_off_target	integer	Shots off target
post_scoring_att	integer	Shots hitting the post
att_goal_high_centre	integer	Shots to high centre of goal
att_goal_high_left	integer	Shots to high left of goal
att_goal_high_right	integer	Shots to high right of goal
att_goal_low_centre	integer	Shots to low centre of goal
att_goal_low_left	integer	Shots to low left of goal
att_goal_low_right	integer	Shots to low right of goal
att_ibox_goal	integer	Goals from inside the box
att_obox_goal	integer	Goals from outside the box
att_hd_goal	integer	Headed goals
att_lf_goal	integer	Left-foot goals
att_rf_goal	integer	Right-foot goals
att_pen_goal	integer	Penalty goals
shot_fastbreak	integer	Fast-break shots

## Goal Creation — SCA/GCA (14 columns)

Column	Type	Description
sca	integer	Shot-creating actions
gca	integer	Goal-creating actions
sca_pass_live	integer	SCA from live passes
sca_pass_dead	integer	SCA from dead-ball passes
sca_take_on	integer	SCA from take-ons/dribbles
sca_shot	integer	SCA from shots
sca_fouled	integer	SCA from being fouled
sca_def	integer	SCA from defensive actions
gca_pass_live	integer	GCA from live passes
gca_pass_dead	integer	GCA from dead-ball passes
gca_take_on	integer	GCA from take-ons/dribbles
gca_shot	integer	GCA from shots
gca_fouled	integer	GCA from being fouled
gca_def	integer	GCA from defensive actions

## Defending (15+ columns)

Column	Type	Description
total_tackle	integer	Total tackles attempted
won_tackle	integer	Successful tackles
interception	integer	Total interceptions
interception_won	integer	Successful interceptions
interceptions_in_box	integer	Interceptions inside the box
last_man_tackle	integer	Last-man tackles
attempted_tackle_foul	integer	Tackles resulting in fouls
times_tackled	integer	Times tackled by opponents
clearance_off_line	integer	Goal-line clearances
total_clearance	integer	Total clearances

Column	Type	Description
effective_clearance	integer	Effective clearances
blocked_pass	integer	Passes blocked
outfielder_block	integer	Shots blocked by outfield players

## Carries & Dribbles (5+ columns)

Column	Type	Description
carries	integer	Total carries
progressive_carries	integer	Progressive carries (advancing the ball)
total_contest	integer	Total dribble attempts
won_contest	integer	Successful dribbles
dribble_lost	integer	Dribbles lost/dispossessions

## Goalkeeping (15+ columns)

Column	Type	Description
saves	integer	Total saves
saves_made	integer	Saves made (attempted)
diving_save	integer	Diving saves
punches	integer	Punches to clear
good_high_claim	integer	Successful high claims
accurate_keeper_sweeper	integer	Accurate sweeper keeper actions
keeper_pick_up	integer	Ball pick-ups by keeper
keeper_throws	integer	Throws by keeper
goal_kicks	integer	Goal kicks taken
accurate_goal_kicks	integer	Accurate goal kicks
pen_goals_conceded	integer	Penalty goals conceded

Note: The full player\_matches table contains 306 columns. The categories above cover the most commonly used fields. Additional columns include aerial duels, progressive passes, penalty details, set-piece delivery stats, and more granular positional breakdowns.

# Team Match Stats

The **team\_matches** table contains 303 columns with aggregated match-level statistics for each team. With 59,642 records (one per team per match), this table mirrors the structure of **player\_matches** but at the team level.

## Key Columns

Column	Type	Description
match_id	text, FK→matches	Match reference
team_id	text, FK→teams	Team reference
side	enum	Home or Away
formation	text	Tactical formation (e.g., "4-3-3")

## Statistical Categories (298 stat columns)

The remaining 298 columns cover the same statistical categories as the player match stats, aggregated at the team level:

Category	Example Columns	Description
<b>Core Stats</b>	goals, total_pass, touches, fouls	Basic match statistics summed across all players
<b>Expected Metrics</b>	expected_goals, expected_assists	Team-level xG and xA
<b>Passing</b>	accurate_pass, key_pass, total_cross	Team passing accuracy and distribution
<b>Shooting</b>	total_scoring_att, ontarget_scoring_att	Team shot volume and accuracy
<b>Goal Creation</b>	sca, gca, big_chance_created	Team-level chance creation metrics
<b>Defending</b>	total_tackle, interception, total_clearance	Defensive actions aggregated
<b>Carries</b>	carries, progressive_carries	Ball progression through carries
<b>Goalkeeping</b>	saves, good_high_claim	Goalkeeper actions for the team
<b>Possession</b>	possession_percentage, ball_recovery	Team possession and recovery metrics
<b>Set Pieces</b>	total_corners, total_offside	Corner kicks, offsides, free kicks

# League Coverage

The Dribble dataset covers 23 competitions across Europe, the Middle East, and North America. Coverage ranges from 2020/21 through the current 2025/26 season.

Competition	Country/Region	Coverage Period
Premier League	England	2020/21 → 2025/26
La Liga	Spain	2020/21 → 2025/26
Bundesliga	Germany	2020/21 → 2025/26
Ligue 1	France	2020/21 → 2025/26
Serie A	Italy	2020/21 → 2025/26
Champions League	UEFA	2020/21 → 2025/26
Europa League	UEFA	2020/21 → 2025/26
Conference League	UEFA	2021/22 → 2025/26
UEFA Super Cup	UEFA	2020/21 → 2025/26
FA Cup	England	2020/21 → 2025/26
Community Shield	England	2020/21 → 2025/26
EFL Trophy	England	2020/21 → 2025/26
Copa de la Reina	Spain	2020/21 → 2025/26
Supercopa	Spain	2020/21 → 2025/26
DFB Pokal	Germany	2020/21 → 2025/26
German Super Cup	Germany	2020/21 → 2025/26
Coupe de France	France	2020/21 → 2025/26
Trophée des Champions	France	2020/21 → 2025/26
Coppa Italia	Italy	2020/21 → 2025/26
Italian Super Cup	Italy	2020/21 → 2025/26
Taça de Portugal	Portugal	2020/21 → 2025/26
Taça da Liga	Portugal	2020/21 → 2025/26
Saudi Pro League	Saudi Arabia	2020/21 → 2025/26
MLS	USA/Canada	2020 → 2025
Primeira Liga	Portugal	2020/21 → 2025/26

# Quick Start Examples

The following SQL examples demonstrate common query patterns against the Dribble dataset. All tables can be queried directly via standard SQL.

## 1. Mbappé's xG per Match This Season

```
SELECT
  m.date,
  pm.expected_goals,
  pm.goals,
  pm.mins_played
FROM player_matches pm
JOIN matches m ON m.id = pm.match_id
JOIN seasons s ON s.id = m.season_id
JOIN players p ON p.id = pm.player_id
WHERE p.known_name = 'Mbappé'
      AND s.name = '2025/2026'
ORDER BY m.date DESC;
```

## 2. Top 10 Passers in the Premier League 2025/26

```
SELECT
  p.name,
  SUM(pm.accurate_pass) AS accurate_passes,
  SUM(pm.total_pass) AS total_passes,
  ROUND(SUM(pm.accurate_pass)::decimal
        / NULLIF(SUM(pm.total_pass), 0) * 100, 1) AS pass_pct
FROM player_matches pm
JOIN players p ON p.id = pm.player_id
JOIN matches m ON m.id = pm.match_id
JOIN seasons s ON s.id = m.season_id
JOIN leagues l ON l.id = s.league_id
WHERE l.known_name = 'English Premier League'
      AND s.name = '2025/2026'
GROUP BY p.name
```

```
ORDER BY accurate_passes DESC
LIMIT 10;
```

### 3. Transfer Activity for Manchester United Since 2022

```
SELECT
  p.name AS player,
  ft.name AS from_team,
  tt.name AS to_team,
  pt.start_date,
  pt.transfer_value
FROM player_transfers pt
JOIN players p ON p.id = pt.player_id
LEFT JOIN teams ft ON ft.id = pt.from_team_id
JOIN teams tt ON tt.id = pt.to_team_id
WHERE (ft.name = 'Manchester United'
       OR tt.name = 'Manchester United')
       AND pt.start_date >= '2022-01-01'
ORDER BY pt.start_date DESC;
```

### 4. Head-to-Head: Salah vs Mbappé Career Stats

```
SELECT
  p.name,
  COUNT(*) AS matches,
  SUM(pm.goals) AS goals,
  SUM(pm.goal_assist) AS assists,
  ROUND(SUM(pm.expected_goals)::decimal, 1) AS total_xg,
  ROUND(AVG(pm.expected_goals)::decimal, 3) AS xg_per_match
FROM player_matches pm
JOIN players p ON p.id = pm.player_id
WHERE p.known_name IN ('Salah', 'Mbappé')
GROUP BY p.name;
```

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## Contact

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