

Conceptual Design

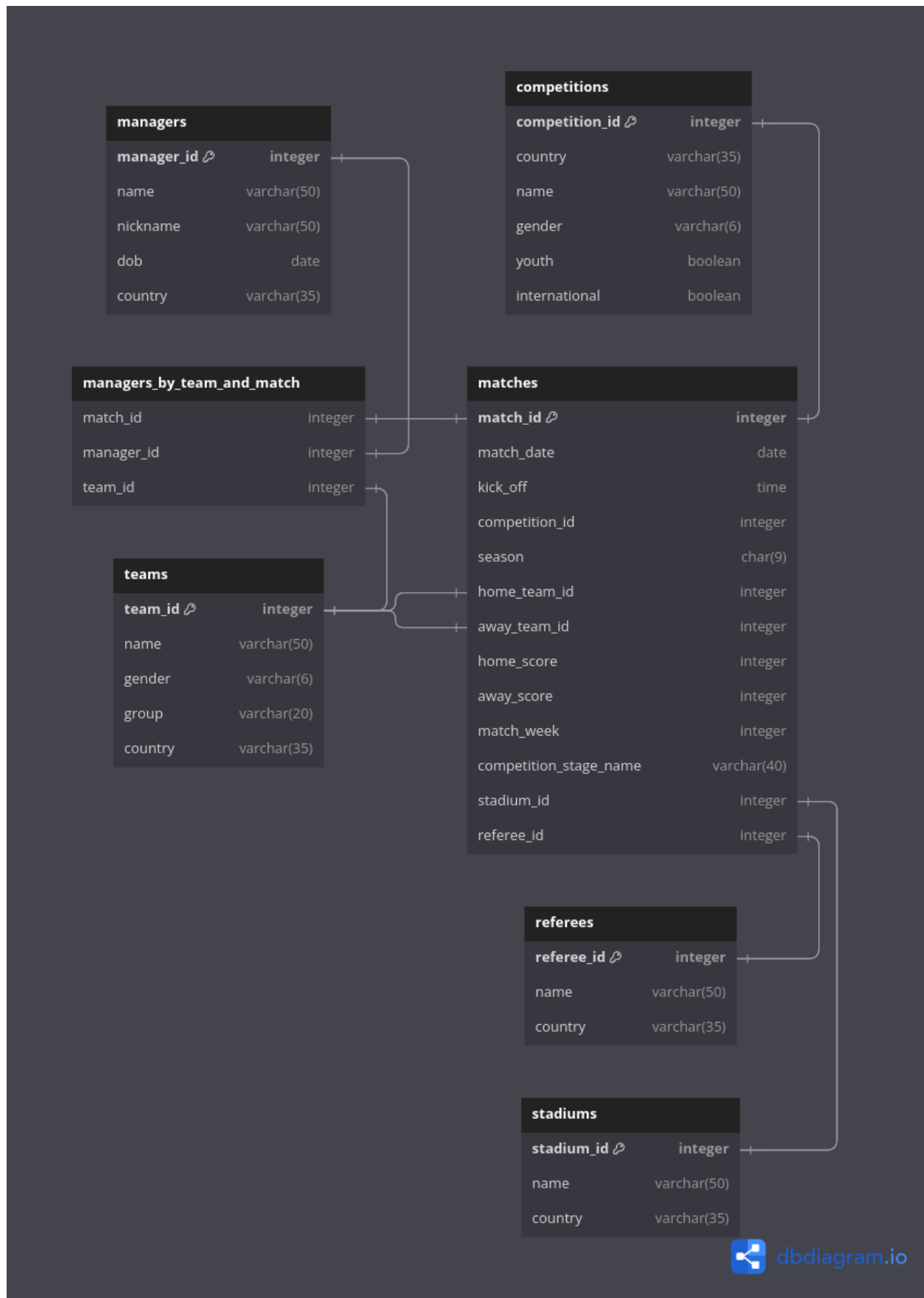
Entity-Relation Diagram

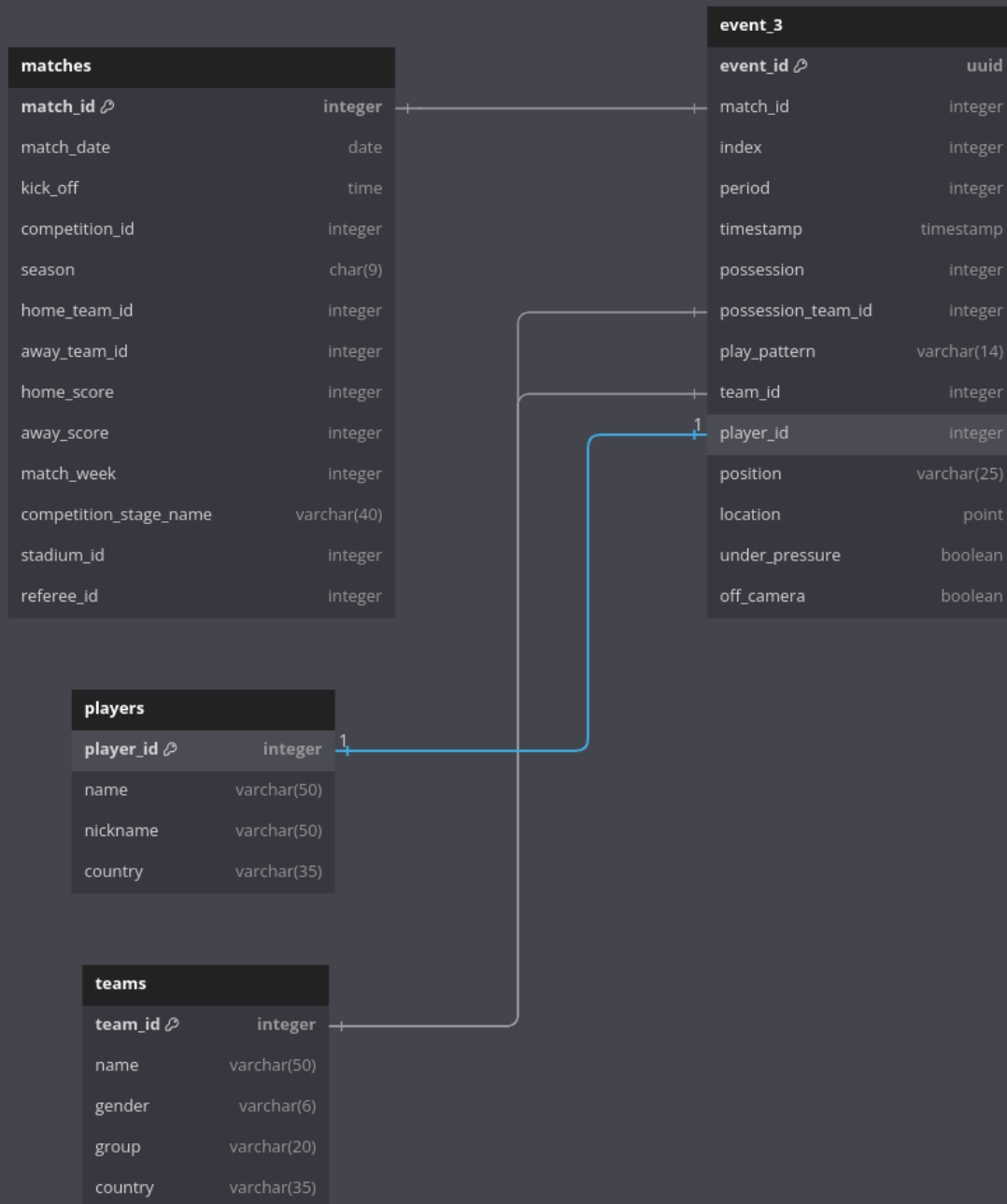
Assumptions


1. If an attribute is the same for every row in a table, we omit that attribute. Examples include the 'duration' attribute in the event tables. In many cases, 'duration' is always 0.0 - for those tables we omit the 'duration' attribute entirely.
2. The 'related_events' attribute cannot refer to an event from a different match. This assumption was made for data validation and to reduce json_loader execution times.


Reduction to Relation Schemas


Database Schema Diagram






matches	
match_id 	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

players	
player_id 	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)

teams	
team_id 	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

event_4	
event_id 	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point
under_pressure	boolean
off_camera	boolean
counterpress	boolean
type	varchar(20)
outcome	varchar(20)

matches	
match_id 🔗	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

players	
player_id 🔗	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)

teams	
team_id 🔗	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

event_6	
event_id 🔗	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point
under_pressure	boolean
off_camera	boolean
out	boolean
counterpress	boolean
deflection	boolean
offensive	boolean
save_block	boolean

matches	
match_id 🔗	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

event_8	
event_id 🔗	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point

players	
player_id 🔗	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)


teams	
team_id 🔗	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)


matches	
match_id 🔗	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer


players	
player_id 🔗	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)


teams	
team_id 🔗	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

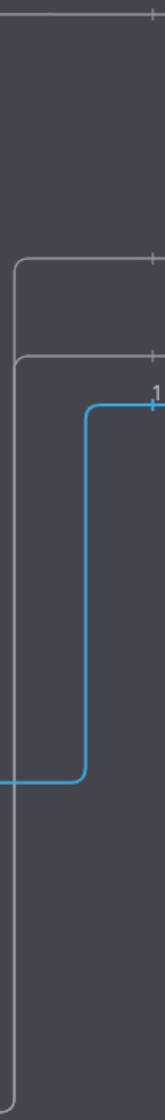
event_9	
event_id 🔗	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point
under_pressure	boolean
off_camera	boolean
out	boolean
aerial_won	boolean
body_part	varchar(20)

matches	
match_id 	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

event_10	
event_id 	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point
under_pressure	boolean
off_camera	boolean
outcome	varchar(20)

players	
player_id 	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)

teams	
team_id 	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

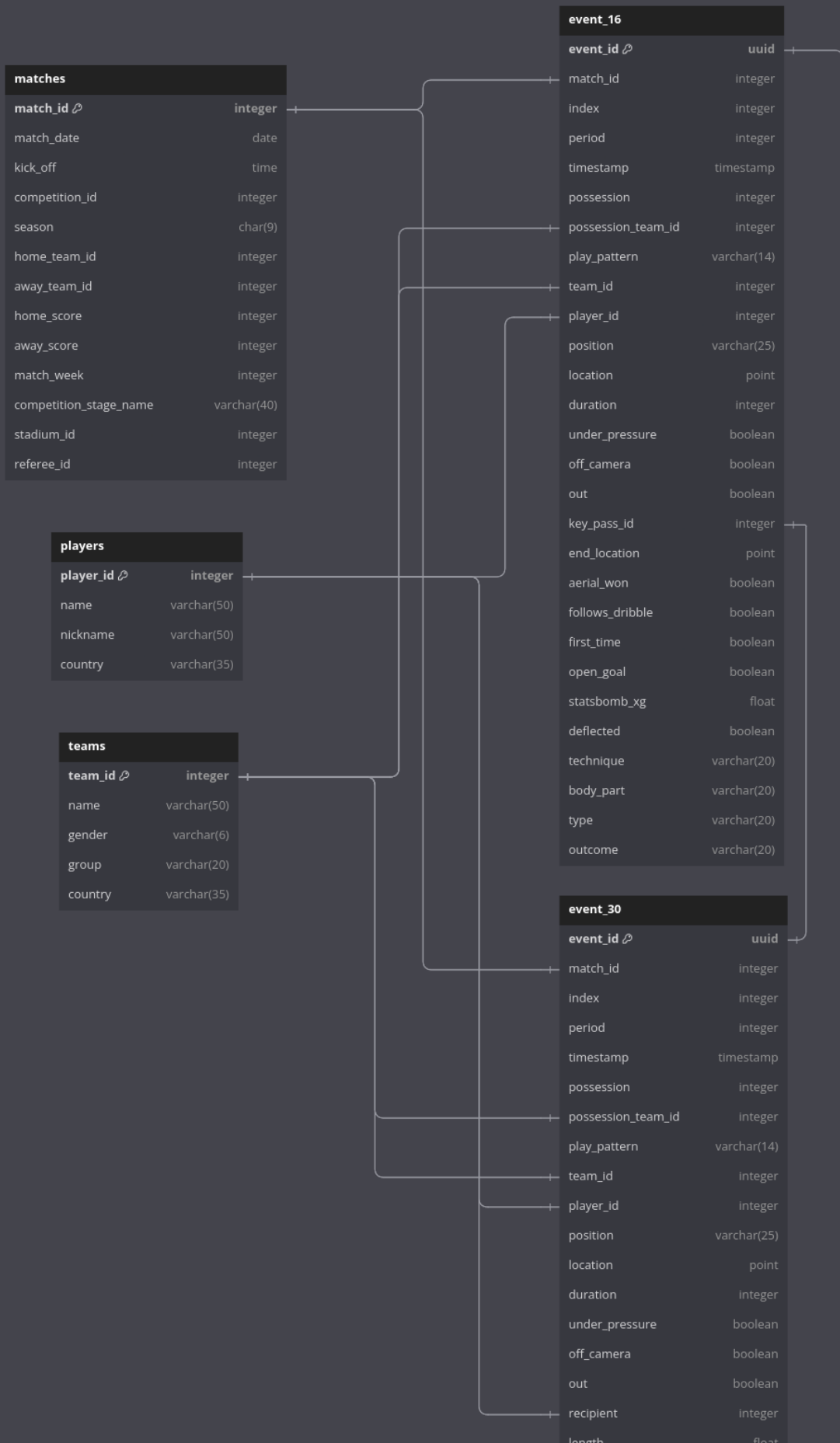


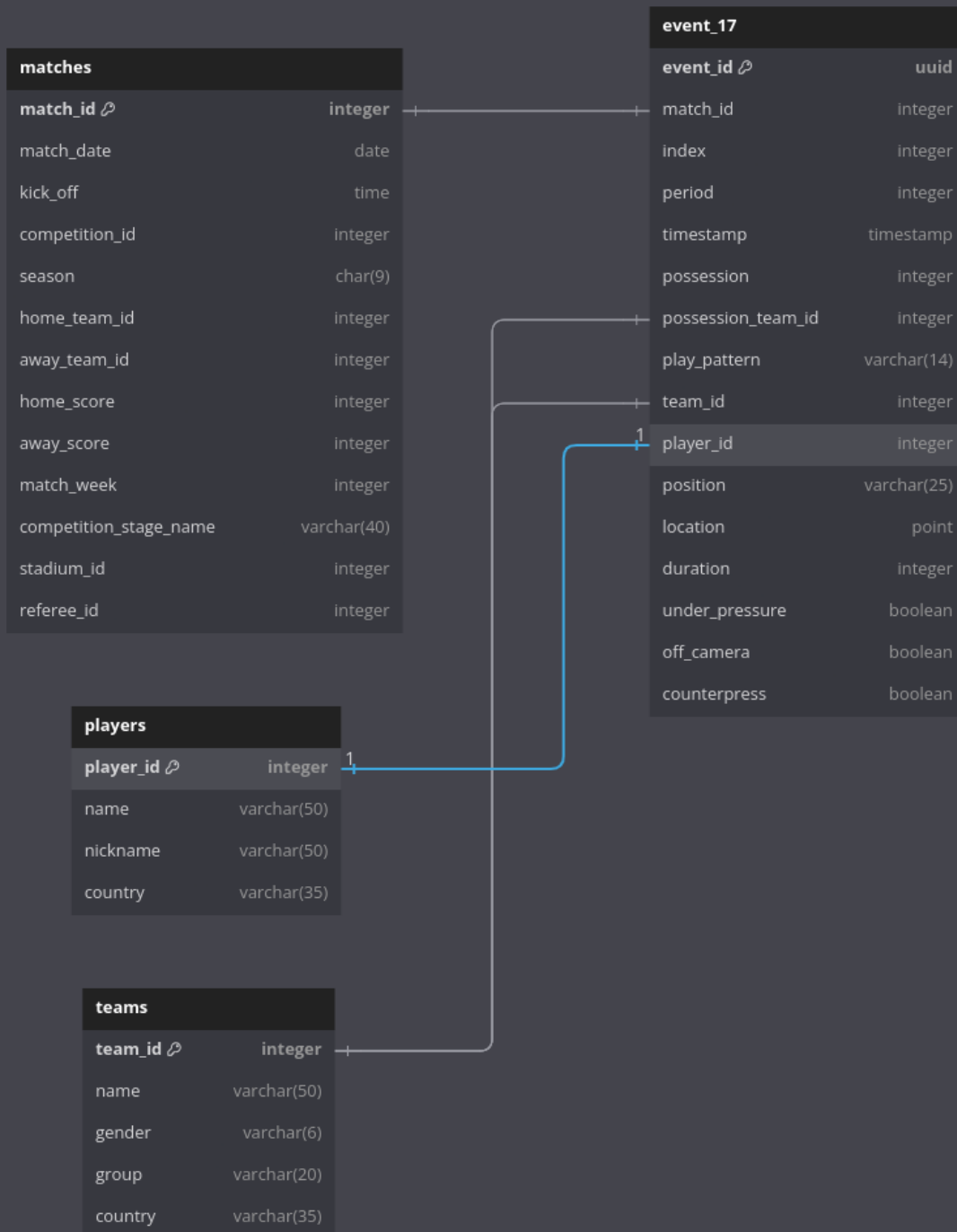
matches	
match_id 🔗	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

players	
player_id 🔗	integer
name	varchar(50)
nickname	varchar(50)
country	varchar(35)

teams	
team_id 🔗	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

event_14	
event_id 🔗	uuid
match_id	integer
index	integer
period	integer
timestamp	timestamp
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
player_id	integer
position	varchar(25)
location	point
under_pressure	boolean
off_camera	boolean
out	boolean
outcome	varchar(20)
nutmeg	boolean
overrun	boolean
no_touch	boolean





matches	
match_id 🔗	integer
match_date	date
kick_off	time
competition_id	integer
season	char(9)
home_team_id	integer
away_team_id	integer
home_score	integer
away_score	integer
match_week	integer
competition_stage_name	varchar(40)
stadium_id	integer
referee_id	integer

teams	
team_id 🔗	integer
name	varchar(50)
gender	varchar(6)
group	varchar(20)
country	varchar(35)

event_18	
event_id 🔗	uuid
match_id	integer
index	integer
period	integer
possession	integer
possession_team_id	integer
play_pattern	varchar(14)
team_id	integer
late_video_start	boolean

