## Retrieve all player information for a specific club.

select club.club\_name, team.team\_name, player.name as player\_name, player.birth\_date, player.nationality, player.shirt\_num

from club, team, team\_player, player

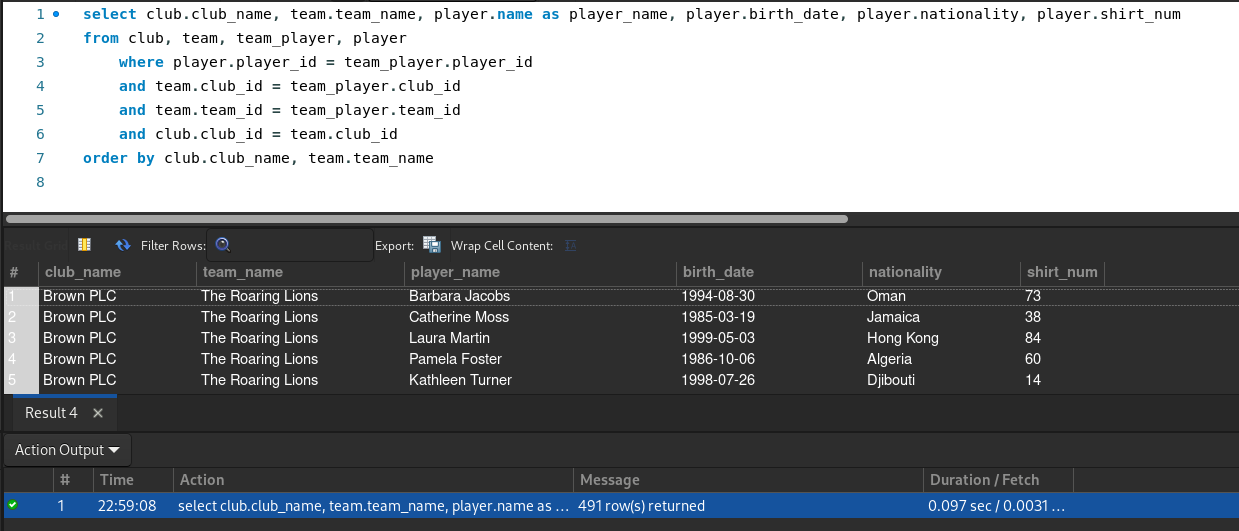
where player.player\_id = team\_player.player\_id

and team.club\_id = team\_player.club\_id

and team.team\_id = team\_player.team\_id

and club.club\_id = team.club\_id

order by club.club\_name, team.team\_name





## Find the three top goal scorer in the league.

DROP PROCEDURE IF EXISTS ROWPERROW;

DELIMITER ;;

CREATE PROCEDURE ROWPERROW()

BEGIN

DECLARE n INT DEFAULT 0;

DECLARE i INT DEFAULT 0;

DECLARE l\_name VARCHAR(100) DEFAULT "";

DECLARE \_id INT DEFAULT 0;

SELECT COUNT(\*) FROM league INTO n;

SET i=0;

WHILE i<n DO

SELECT (league\_id) FROM league LIMIT i,1 INTO \_id;

SELECT (league.league\_name) FROM league LIMIT i,1 INTO l\_name;

SELECT l\_name, player.name as player\_name, player\_status.goals\_scored

FROM player, player\_status

WHERE player\_status.player\_id = player.player\_id

and player\_status.league\_id = \_id

ORDER BY player\_status.goals\_scored DESC LIMIT 3;

SET i = i + 1;

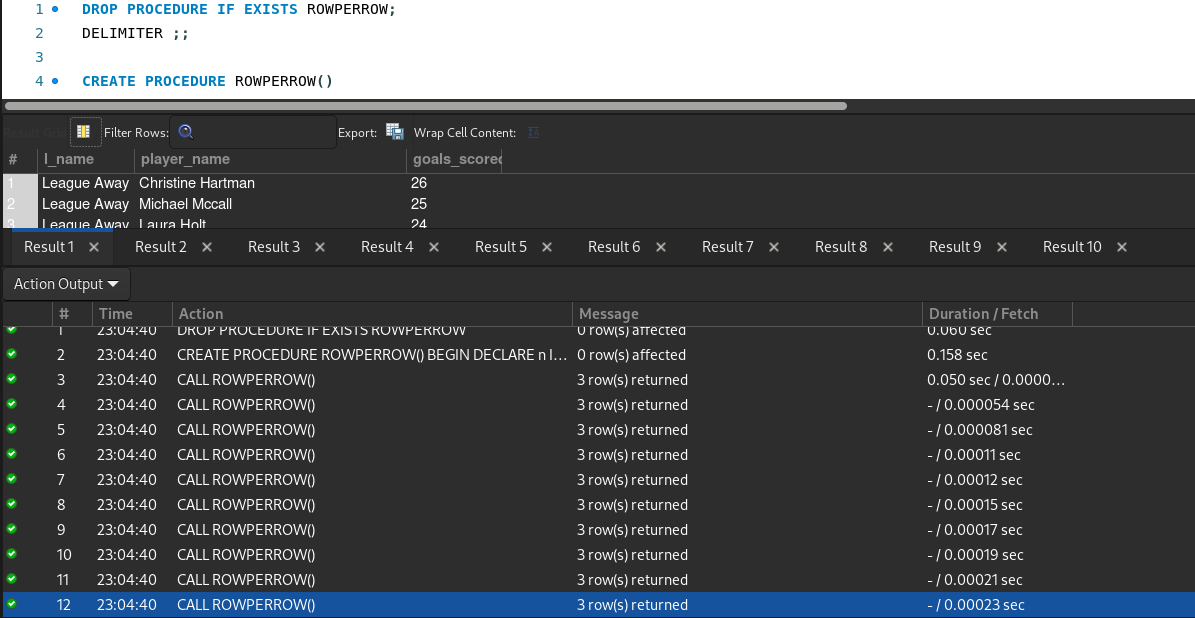
END WHILE;

End;

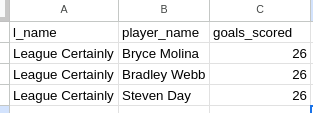
;;

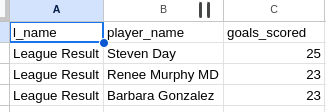
DELIMITER ;

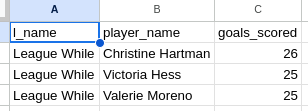
CALL ROWPERROW();

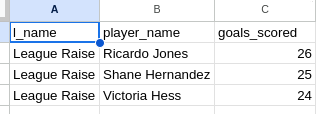


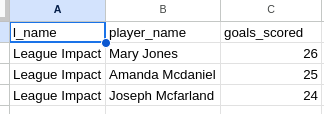


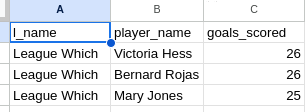


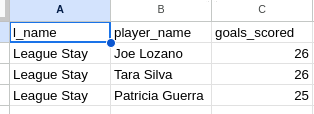


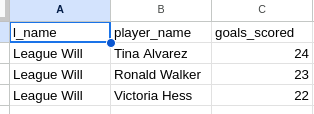


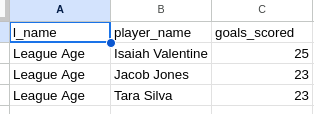












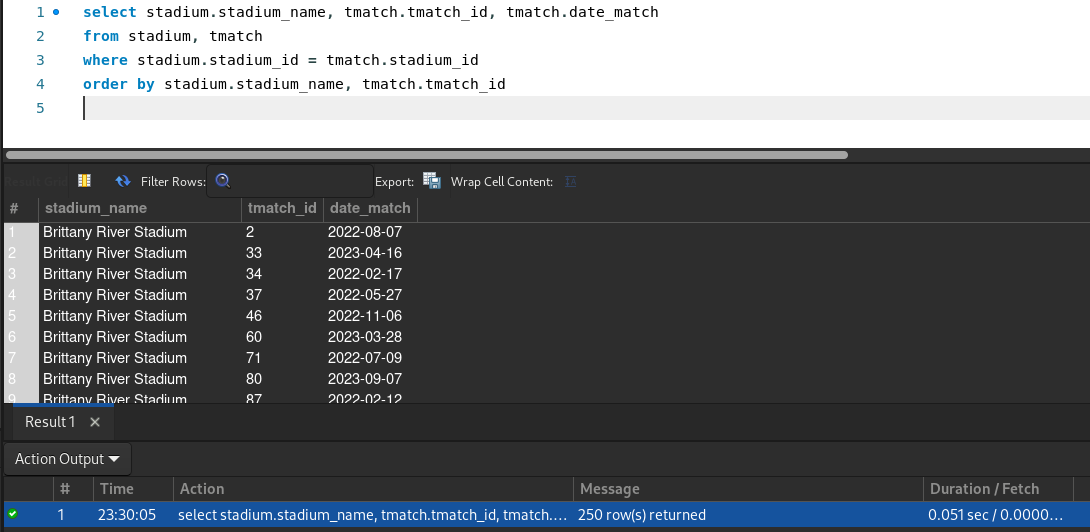
## List all matches played at a particular venue

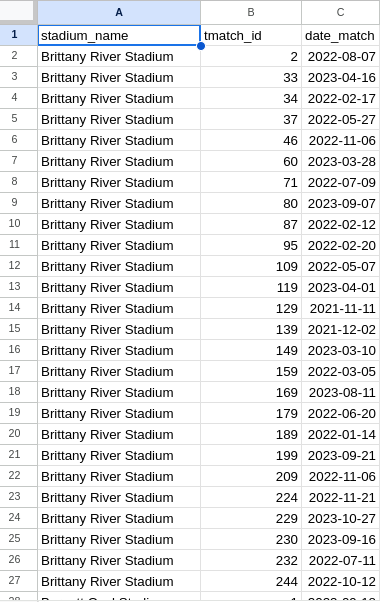
select stadium.stadium\_name, tmatch.tmatch\_id, tmatch.date\_match

from stadium, tmatch

where stadium.stadium\_id = tmatch.stadium\_id

order by stadium.stadium\_name, tmatch.tmatch\_id





## List all clubs and their total points in the league

select league.league\_name, club.club\_name, team.team\_name, standing.points as total\_points

from league, club, team, standing

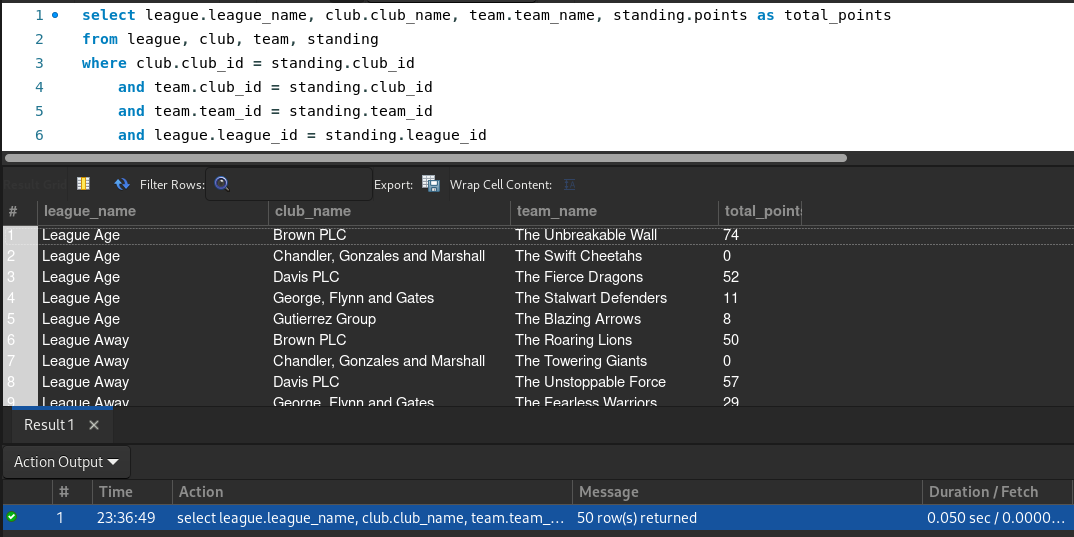
where club.club\_id = standing.club\_id

and team.club\_id = standing.club\_id

and team.team\_id = standing.team\_id

and league.league\_id = standing.league\_id

order by league.league\_name, club.club\_name, team.team\_name





## Retrieve the match schedule for a specific date

select

league.league\_name

,tmatch.date\_match

,tmatch.time\_match

,tmatch.week\_day

,match\_team\_names.t\_name\_1 as team\_1

,match\_team\_names.t\_name\_2 as team\_2

,stadium.stadium\_name

,referee.name as referee\_name

from league, tmatch, stadium, referee,

(select match\_team\_ids.league\_id

, match\_team\_ids.match\_id

, teams.t\_name\_1

, teams.t\_name\_2

from

(select team.team\_id as t\_id\_1

, t.team\_id as t\_id\_2

, team.team\_name as t\_name\_1

, t.team\_name as t\_name\_2

from team, team as t

where team.team\_id < t.team\_id) as teams,

(select team\_tmatch.league\_id as league\_id

, team\_tmatch.tmatch\_id as match\_id

, team\_tmatch.team\_id as team\_id\_1

, tt.team\_id as team\_id\_2

from team\_tmatch inner join team\_tmatch as tt

using (league\_id, tmatch\_id)

where team\_tmatch.team\_id < tt.team\_id) as match\_team\_ids

where teams.t\_id\_1 = match\_team\_ids.team\_id\_1 and teams.t\_id\_2 = match\_team\_ids.team\_id\_2) as match\_team\_names

where

tmatch.league\_id = match\_team\_names.league\_id

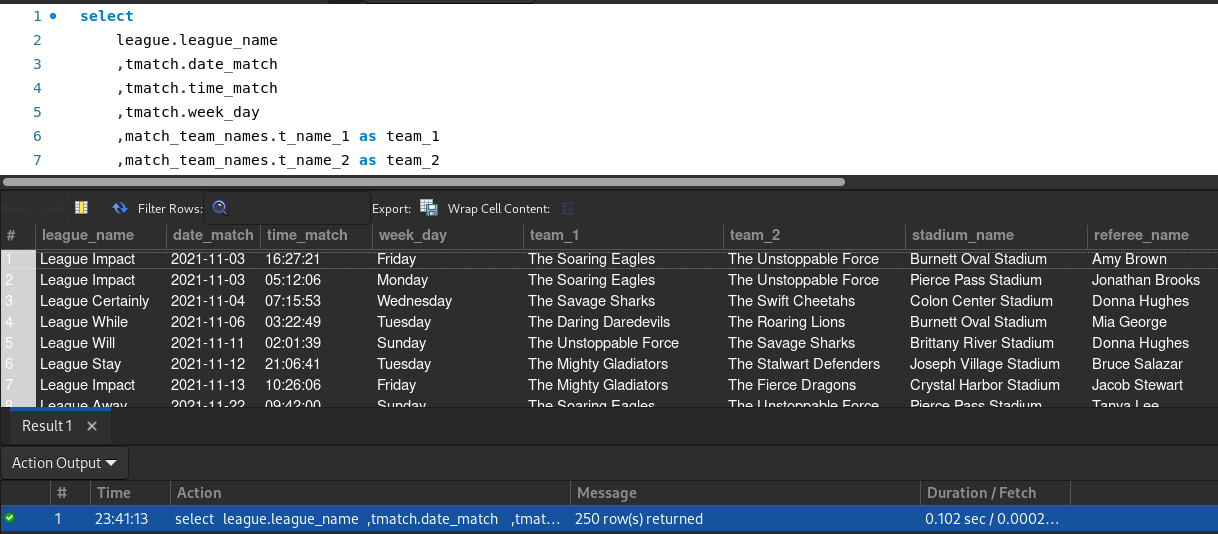
and tmatch.tmatch\_id = match\_team\_names.match\_id

and league.league\_id = tmatch.league\_id

and tmatch.stadium\_id = stadium.stadium\_id

and tmatch.referee\_id = referee.referee\_id

order by date\_match





## Find clubs that have at least one player with more than 10 goals

select club.club\_name, team.team\_name, player.name, player\_status.goals\_scored

from club, team, player, team\_player, player\_status

where player.player\_id = player\_status.player\_id

and player.player\_id = team\_player.player\_id

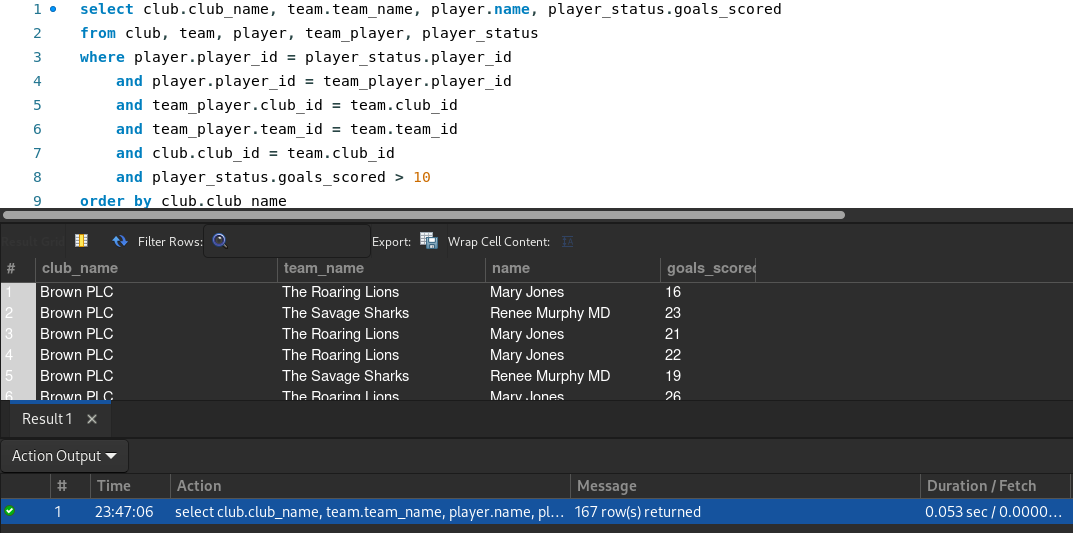
and team\_player.club\_id = team.club\_id

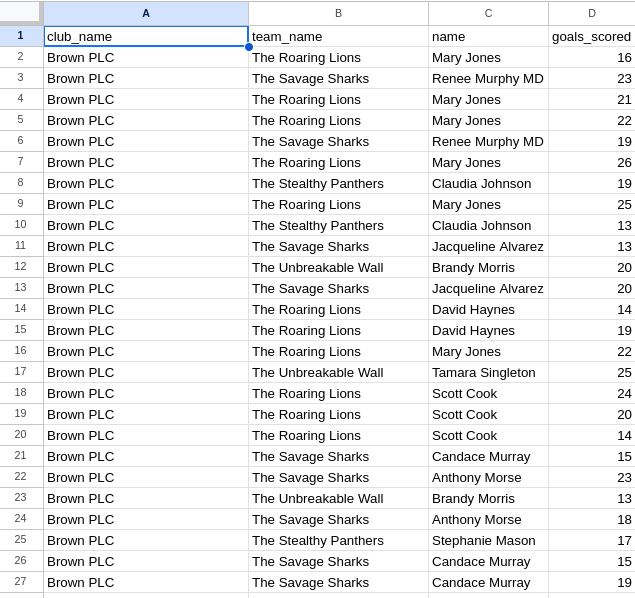
and team\_player.team\_id = team.team\_id

and club.club\_id = team.club\_id

and player\_status.goals\_scored > 10

order by club.club\_name





## List matches where the total goals scored is above the average

select

league.league\_name

,tmatch.date\_match

,match\_team\_names.t\_name\_1 as team\_1

,match\_team\_names.t\_name\_2 as team\_2

,match\_team\_names.team\_1\_score as team\_1\_score

,match\_team\_names.team\_2\_score as team\_2\_score

from league, tmatch,

(select match\_team\_ids.league\_id

, match\_team\_ids.match\_id

, teams.t\_name\_1

, match\_team\_ids.team\_1\_score

, teams.t\_name\_2

, match\_team\_ids.team\_2\_score

from

(select team.team\_id as t\_id\_1

, t.team\_id as t\_id\_2

, team.team\_name as t\_name\_1

, t.team\_name as t\_name\_2

from team, team as t

where team.team\_id < t.team\_id) as teams,

(select team\_tmatch.league\_id as league\_id

, team\_tmatch.tmatch\_id as match\_id

, team\_tmatch.team\_id as team\_id\_1

, tt.team\_id as team\_id\_2

, team\_tmatch.goals\_scored as team\_1\_score

, tt.goals\_scored as team\_2\_score

from team\_tmatch inner join team\_tmatch as tt

using (league\_id, tmatch\_id)

where team\_tmatch.team\_id < tt.team\_id) as match\_team\_ids

where teams.t\_id\_1 = match\_team\_ids.team\_id\_1 and teams.t\_id\_2 = match\_team\_ids.team\_id\_2) as match\_team\_names

where

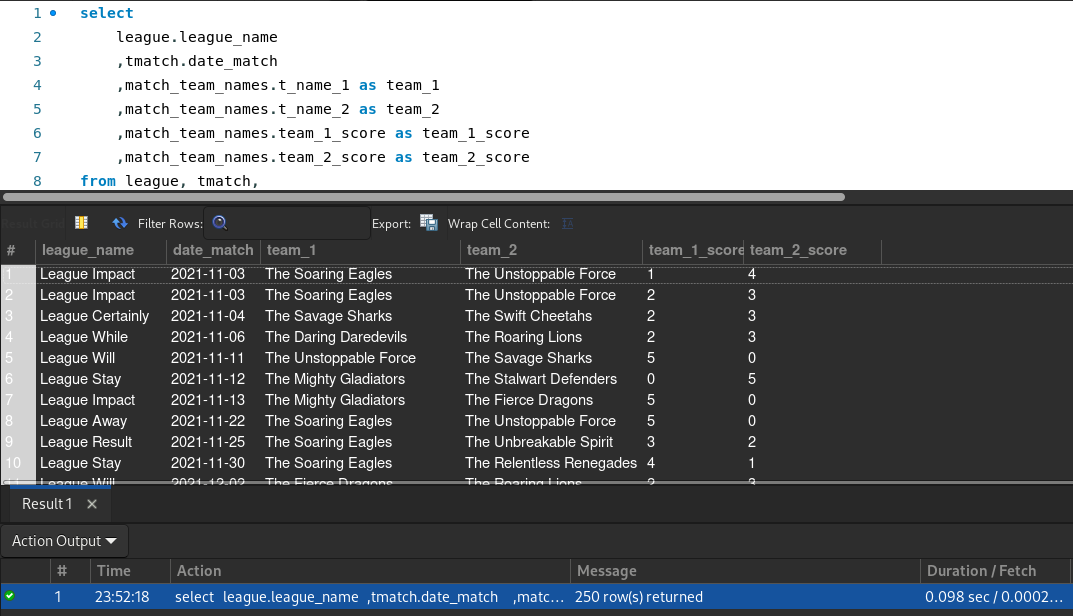
tmatch.league\_id = match\_team\_names.league\_id

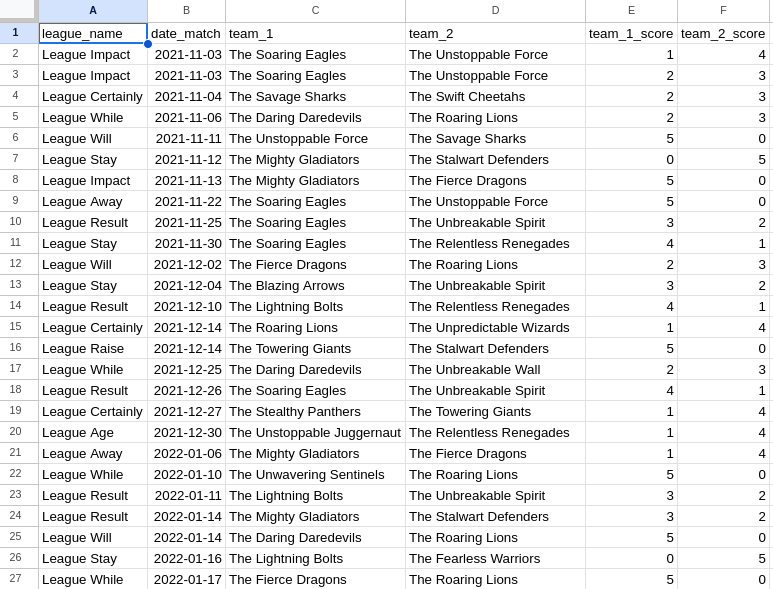
and tmatch.tmatch\_id = match\_team\_names.match\_id

and league.league\_id = tmatch.league\_id

and ( (team\_1\_score + team\_2\_score) > (select avg(goals\_scored) from team\_tmatch) )

order by date\_match





## Retrieve players from a specific club who have scored the most goals

select club.club\_name, team.team\_name, player.name as player\_name, player\_status.goals\_scored

from club, team, player, team\_player, player\_status

where player\_status.player\_id = player.player\_id

and team\_player.player\_id = player\_status.player\_id

and team\_player.club\_id = team.club\_id

and team\_player.team\_id = team.team\_id

and club.club\_id = team.club\_id

and (player.name, player\_status.goals\_scored) IN

(select player.name, player\_ids\_max\_score.\_max\_score

from player,

(select player\_status.player\_id as \_id, team\_ids\_max\_scores.max\_score as \_max\_score

from player\_status, team\_player,

(select team\_player.club\_id as c\_id

,team\_player.team\_id as t\_id

,max(player\_status.goals\_scored) as max\_score

from player\_status, team\_player

where player\_status.player\_id = team\_player.player\_id

group by club\_id, team\_id

order by club\_id, team\_id) as team\_ids\_max\_scores

where team\_ids\_max\_scores.c\_id = team\_player.club\_id

and team\_ids\_max\_scores.t\_id = team\_player.team\_id

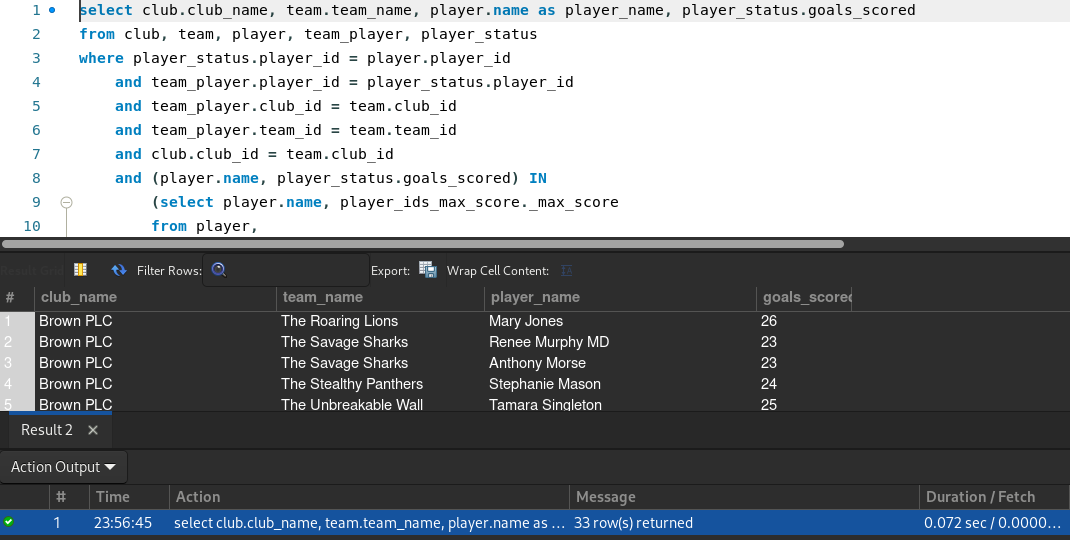
and team\_player.player\_id = player\_status.player\_id

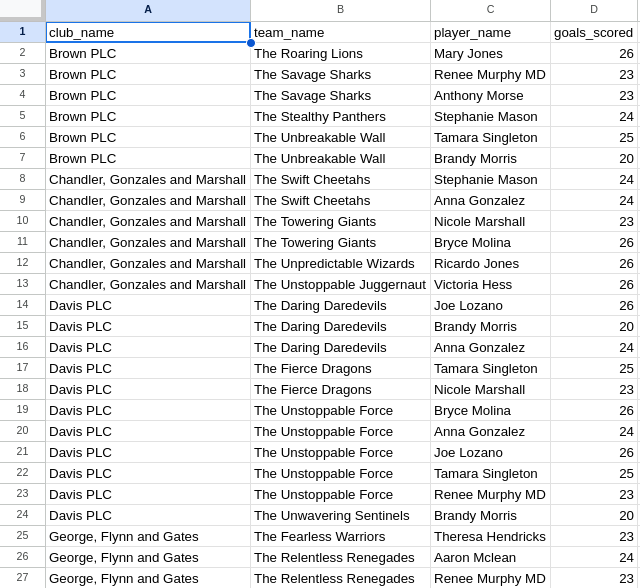
and player\_status.goals\_scored = team\_ids\_max\_scores.max\_score) as player\_ids\_max\_score

where player.player\_id = player\_ids\_max\_score.\_id

)

order by club.club\_name, team.team\_name





## Retrieve information about matches officiated by a specific referee

select

referee.name as referee\_name

,league.league\_name

,tmatch.date\_match

,tmatch.time\_match

,tmatch.week\_day

,match\_team\_names.t\_name\_1 as team\_1

,match\_team\_names.t\_name\_2 as team\_2

,stadium.stadium\_name

from league, tmatch, stadium, referee,

(select match\_team\_ids.league\_id

, match\_team\_ids.match\_id

, teams.t\_name\_1

, teams.t\_name\_2

from

(select team.team\_id as t\_id\_1

, t.team\_id as t\_id\_2

, team.team\_name as t\_name\_1

, t.team\_name as t\_name\_2

from team, team as t

where team.team\_id < t.team\_id) as teams,

(select team\_tmatch.league\_id as league\_id

, team\_tmatch.tmatch\_id as match\_id

, team\_tmatch.team\_id as team\_id\_1

, tt.team\_id as team\_id\_2

from team\_tmatch inner join team\_tmatch as tt

using (league\_id, tmatch\_id)

where team\_tmatch.team\_id < tt.team\_id) as match\_team\_ids

where teams.t\_id\_1 = match\_team\_ids.team\_id\_1 and teams.t\_id\_2 = match\_team\_ids.team\_id\_2) as match\_team\_names

where

tmatch.league\_id = match\_team\_names.league\_id

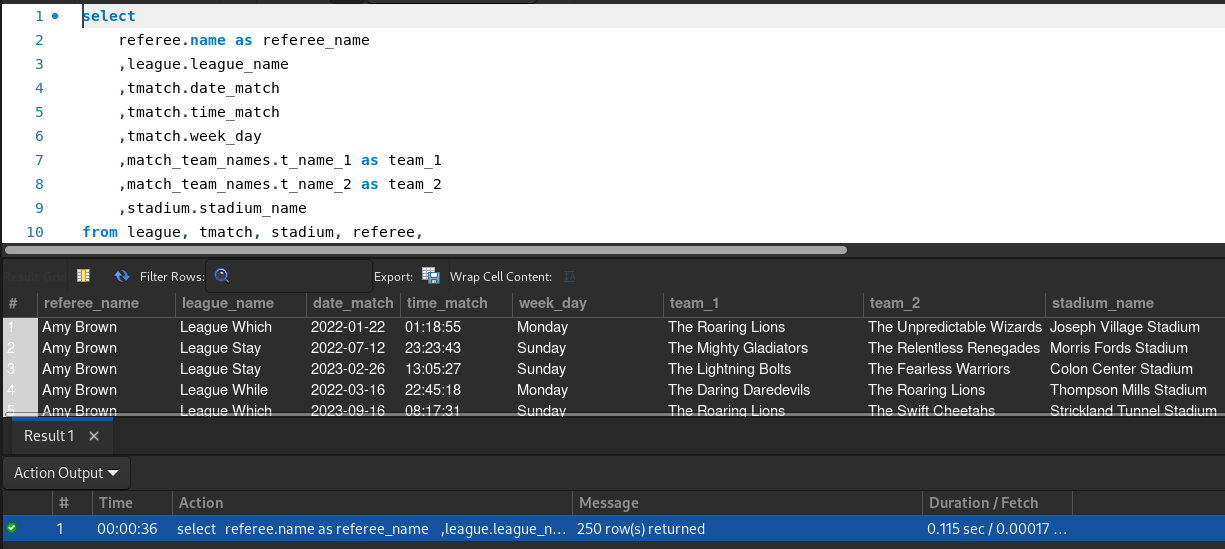
and tmatch.tmatch\_id = match\_team\_names.match\_id

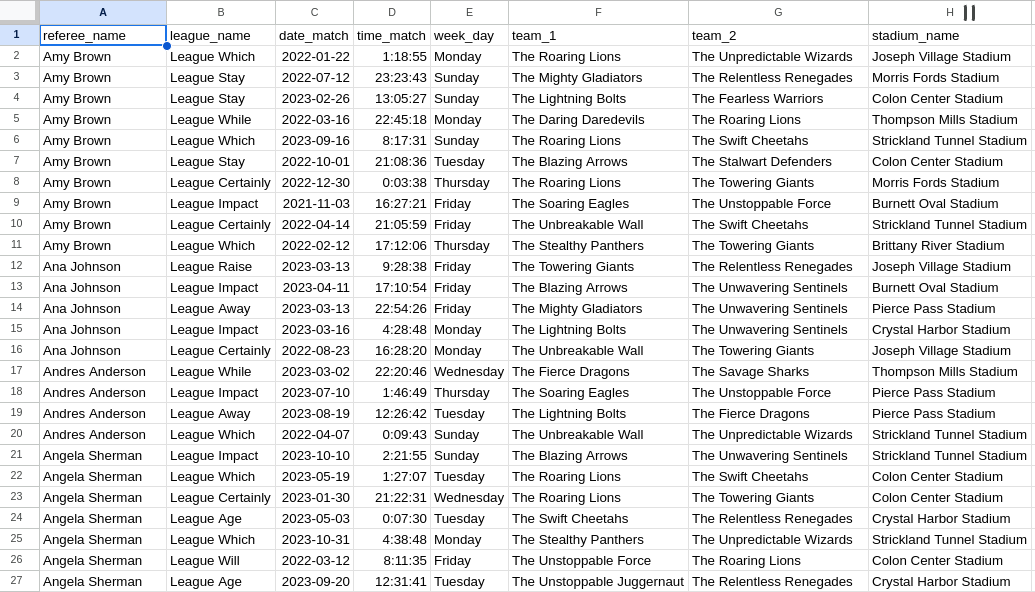
and league.league\_id = tmatch.league\_id

and tmatch.stadium\_id = stadium.stadium\_id

and tmatch.referee\_id = referee.referee\_id

order by referee\_name





## List all matches played at a specific venue within a certain date range

select

stadium.stadium\_name

,referee.name as referee\_name

,league.league\_name

,tmatch.date\_match

,tmatch.time\_match

,tmatch.week\_day

,match\_team\_names.t\_name\_1 as team\_1

,match\_team\_names.t\_name\_2 as team\_2

from league, tmatch, stadium, referee,

(select match\_team\_ids.league\_id

, match\_team\_ids.match\_id

, teams.t\_name\_1

, teams.t\_name\_2

from

(select team.team\_id as t\_id\_1

, t.team\_id as t\_id\_2

, team.team\_name as t\_name\_1

, t.team\_name as t\_name\_2

from team, team as t

where team.team\_id < t.team\_id) as teams,

(select team\_tmatch.league\_id as league\_id

, team\_tmatch.tmatch\_id as match\_id

, team\_tmatch.team\_id as team\_id\_1

, tt.team\_id as team\_id\_2

from team\_tmatch inner join team\_tmatch as tt

using (league\_id, tmatch\_id)

where team\_tmatch.team\_id < tt.team\_id) as match\_team\_ids

where teams.t\_id\_1 = match\_team\_ids.team\_id\_1 and teams.t\_id\_2 = match\_team\_ids.team\_id\_2) as match\_team\_names

where

tmatch.league\_id = match\_team\_names.league\_id

and tmatch.tmatch\_id = match\_team\_names.match\_id

and league.league\_id = tmatch.league\_id

and tmatch.stadium\_id = stadium.stadium\_id

and tmatch.referee\_id = referee.referee\_id

and (tmatch.date\_match between '2022-01-01' and '2022-12-31')

order by stadium.stadium\_name

