-- Identify the home team as Bayern Munich, Schalke 04, or neither

SELECT

case when hometeam\_id = 10189 then 'FC Schalke 04'

when hometeam\_id = 9823 then 'FC Bayern Munich'

ELSE 'Other' END AS home\_team,

COUNT(id) AS total\_matches

FROM matches\_germany

-- Group by the CASE statement alias

GROUP BY home\_team;

==

SELECT

-- Select the date of the match

date,

-- Identify home wins, losses, or ties

case when home\_goal > away\_goal then 'Home win!'

when home\_goal < away\_goal then 'Home loss :('

else 'Tie' end as outcome

FROM matches\_spain;

==

SELECT

m.date,

--Select the team long name column and call it 'opponent'

t.team\_long\_name AS opponent,

-- Complete the CASE statement with an alias

case when m.home\_goal > m.away\_goal then 'Home win!'

when m.home\_goal < m.away\_goal then 'Home loss :('

else 'Tie' end as outcome

FROM matches\_spain AS m

-- Left join teams\_spain onto matches\_spain

left join teams\_spain AS t

on m.awayteam\_id = t.team\_api\_id;

==

SELECT

m.date,

t.team\_long\_name AS opponent,

-- Complete the CASE statement with an alias

case when m.home\_goal > m.away\_goal then 'Barcelona win!'

when m.home\_goal < m.away\_goal then 'Barcelona loss :('

else 'Tie' end as outcome

FROM matches\_spain AS m

LEFT JOIN teams\_spain AS t

ON m.awayteam\_id = t.team\_api\_id

-- Filter for Barcelona as the home team

WHERE m.hometeam\_id = 8634;

==

-- Select matches where Barcelona was the away team

SELECT

m.date,

t.team\_long\_name AS opponent,

case when m.home\_goal < m.away\_goal then 'Barcelona win!'

WHEN m.home\_goal > m.away\_goal then 'Barcelona loss :('

else 'Tie' end as outcome

FROM matches\_spain AS m

-- Join teams\_spain to matches\_spain

LEFT JOIN teams\_spain AS t

ON m.hometeam\_id = t.team\_api\_id

WHERE m.awayteam\_id = 8634;

==

SELECT

date,

-- Identify the home team as Barcelona or Real Madrid

case when hometeam\_id = 8634 then 'FC Barcelona'

when hometeam\_id = 8633 then 'Real Madrid CF' end as home,

-- Identify the away team as Barcelona or Real Madrid

case when awayteam\_id = 8634 then 'FC Barcelona'

when awayteam\_id = 8633 then 'Real Madrid CF' end as away

FROM matches\_spain

WHERE (awayteam\_id = 8634 OR hometeam\_id = 8634)

AND (awayteam\_id = 8633 OR hometeam\_id = 8633);

==

SELECT

date,

CASE WHEN hometeam\_id = 8634 THEN 'FC Barcelona'

ELSE 'Real Madrid CF' END as home,

CASE WHEN awayteam\_id = 8634 THEN 'FC Barcelona'

ELSE 'Real Madrid CF' END as away,

-- Identify all possible match outcomes

case when home\_goal > away\_goal and hometeam\_id = 8634 then 'Barcelona win!'

WHEN home\_goal > away\_goal and hometeam\_id = 8633 then 'Real Madrid win!'

WHEN home\_goal < away\_goal and awayteam\_id = 8634 then 'Barcelona win!'

WHEN home\_goal < away\_goal and awayteam\_id = 8633 then 'Real Madrid win!'

else 'Tie!' end as outcome

FROM matches\_spain

WHERE (awayteam\_id = 8634 OR hometeam\_id = 8634)

AND (awayteam\_id = 8633 OR hometeam\_id = 8633);

==

-- Select team\_long\_name and team\_api\_id from team

SELECT

team\_long\_name,

team\_api\_id

FROM teams\_italy

-- Filter for team name

WHERE team\_long\_name = 'Bologna';

==

-- Select the season and date columns

SELECT

season,

date,

-- Identify when Bologna won a match

case when hometeam\_id = 9857 and home\_goal > away\_goal then 'Bologna Win'

when awayteam\_id = 9857 and away\_goal > home\_goal then 'Bologna Win'

end AS outcome

FROM matches\_italy

where case when hometeam\_id = 9857 and home\_goal > away\_goal then 'Bologna Win'

when awayteam\_id = 9857 and away\_goal > home\_goal then 'Bologna Win'

end = 'Bologna Win'

==

-- Select the season, date, home\_goal, and away\_goal columns

SELECT

season,

date,

home\_goal,

away\_goal

FROM matches\_italy

WHERE

-- Exclude games not won by Bologna

case when hometeam\_id = 9857 and home\_goal > away\_goal then 'Bologna Win'

when awayteam\_id = 9857 and away\_goal > home\_goal then 'Bologna Win'

end = 'Bologna Win';

( replace is not with = )

==

SELECT

c.name AS country,

-- Count games from the 2012/2013 season

count(case when m.season = '2012/2013'

then m.id ELSE NULL end) AS matches\_2012\_2013

FROM country AS c

LEFT JOIN match AS m

ON c.id = m.country\_id

-- Group by country name alias

group by country;

==

SELECT

c.name AS country,

-- Count matches in each of the 3 seasons

count(case when m.season = '2012/2013' then m.id end) AS matches\_2012\_2013,

count(case when m.season = '2013/2014' then m.id end) AS matches\_2013\_2014,

count(case when m.season = '2014/2015' then m.id end) AS matches\_2014\_2015

FROM country AS c

LEFT JOIN match AS m

ON c.id = m.country\_id

-- Group by country name alias

group by country;

==

SELECT

c.name AS country,

-- Sum the total records in each season where the home team won

sum(case when m.season = '2012/2013' AND m.home\_goal > m.away\_goal

THEN 1 ELSE 0 end) AS matches\_2012\_2013,

sum(case when m.season = '2013/2014' and m.home\_goal > m.away\_goal

THEN 1 else 0 end) AS matches\_2013\_2014,

sum(case when m.season = '2014/2015' and m.home\_goal > m.away\_goal

then 1 else 0 end) AS matches\_2014\_2015

FROM country AS c

LEFT JOIN match AS m

ON c.id = m.country\_id

-- Group by country name alias

GROUP BY country;

==

SELECT

c.name AS country,

-- Count the home wins, away wins, and ties in each country

count(case when m.home\_goal > m.away\_goal THEN m.id

END) AS home\_wins,

count(case when m.home\_goal < m.away\_goal THEN m.id

END) AS away\_wins,

count(case when m.home\_goal = m.away\_goal THEN m.id

END) AS ties

FROM country AS c

LEFT JOIN matches AS m

ON c.id = m.country\_id

GROUP BY country;

==

SELECT

c.name AS country,

-- Calculate the percentage of tied games in each season

avg(case when m.season='2013/2014' AND m.home\_goal = m.away\_goal THEN 1

WHEN m.season='2013/2014' AND m.home\_goal != m.away\_goal THEN 0

END) AS ties\_2013\_2014,

avg(case when m.season='2014/2015' and m.home\_goal = m.away\_goal then 1

WHEN m.season='2014/2015' and m.home\_goal != m.away\_goal then 0

end) AS ties\_2014\_2015

FROM country AS c

LEFT JOIN matches AS m

ON c.id = m.country\_id

GROUP BY country;

==

SELECT

c.name AS country,

-- Round the percentage of tied games to 2 decimal points

round(avg(CASE WHEN m.season='2013/2014' AND m.home\_goal = m.away\_goal THEN 1

WHEN m.season='2013/2014' AND m.home\_goal != m.away\_goal THEN 0

END),2) AS pct\_ties\_2013\_2014,

round(avg(CASE WHEN m.season='2014/2015' AND m.home\_goal = m.away\_goal THEN 1

WHEN m.season='2014/2015' AND m.home\_goal != m.away\_goal THEN 0

END),2) AS pct\_ties\_2014\_2015

FROM country AS c

LEFT JOIN matches AS m

ON c.id = m.country\_id

GROUP BY country;

==

-- Select the average of home + away goals, multiplied by 3

SELECT

3 \* avg(home\_goal + away\_goal)

FROM matches\_2013\_2014;

==

SELECT

-- Select the date, home goals, and away goals scored

date,

home\_goal,

away\_goal

FROM matches\_2013\_2014

-- Filter for matches where total goals exceeds 3x the average

WHERE (home\_goal + away\_goal) >

(SELECT 3 \* AVG(home\_goal + away\_goal)

FROM matches\_2013\_2014);

==

SELECT

-- Select the team long and short names

team\_long\_name,

team\_short\_name

FROM team

-- Exclude all values from the subquery

WHERE team\_api\_id not in

(select DISTINCT hometeam\_id FROM match);

==

SELECT

-- Select the team long and short names

team\_long\_name,

team\_short\_name

FROM team

-- Filter for teams with 8 or more home goals

WHERE team\_api\_id in

(SELECT hometeam\_id

FROM match

WHERE home\_goal >= 8);

==

SELECT

-- Select the country ID and match ID

country\_id,

id

FROM match

-- Filter for matches with 10 or more goals in total

WHERE (home\_goal + away\_goal) >= 10;

==

SELECT

-- Select country name and the count match IDs

name AS country\_name,

COUNT(sub.id) AS matches

FROM country AS c

-- Inner join the subquery onto country

-- Select the country id and match id columns

inner join (SELECT country\_id, id

FROM match

-- Filter the subquery by matches with 10+ goals

WHERE (home\_goal + away\_goal) >= 10) AS sub

ON c.id = sub.country\_id

GROUP BY country\_name;

==

SELECT

-- Select country, date, home, and away goals from the subquery

country,

date,

home\_goal,

away\_goal

FROM

-- Select country name, date, and total goals in the subquery

(SELECT c.name AS country,

m.date,

m.home\_goal,

m.away\_goal,

(m.home\_goal + m.away\_goal) AS total\_goals

FROM match AS m

LEFT JOIN country AS c

ON m.country\_id = c.id) AS subq

-- Filter by total goals scored in the main query

WHERE total\_goals >= 10;

==

SELECT

l.name AS league,

-- Select and round the league's total goals

ROUND(avg(m.home\_goal + m.away\_goal), 2) AS avg\_goals,

-- Select & round the average total goals for the season

(SELECT round(avg(home\_goal + away\_goal), 2)

FROM match

where season = '2013/2014') AS overall\_avg

FROM league AS l

LEFT JOIN match AS m

ON l.country\_id = m.country\_id

-- Filter for the 2013/2014 season

WHERE season = '2013/2014'

GROUP BY league;

==

SELECT

-- Select the league name and average goals scored

l.name AS league,

ROUND(avg(m.home\_goal + m.away\_goal),2) AS avg\_goals,

-- Subtract the overall average from the league average

ROUND(AVG(m.home\_goal + m.away\_goal) -

(SELECT avg(home\_goal + away\_goal)

FROM match

WHERE season = '2013/2014'),2) AS diff

FROM league AS l

LEFT JOIN match AS m

ON l.country\_id = m.country\_id

-- Only include 2013/2014 results

WHERE season = '2013/2014'

GROUP BY l.name;

==

SELECT

-- Select the stage and average goals for each stage

m.stage,

ROUND(avg(m.home\_goal + m.away\_goal),2) AS avg\_goals,

-- Select the average overall goals for the 2012/2013 season

ROUND((SELECT avg(home\_goal + away\_goal)

FROM match

WHERE season = '2012/2013'),2) AS overall

FROM match AS m

-- Filter for the 2012/2013 season

WHERE season = '2012/2013'

-- Group by stage

GROUP BY m.stage;

==

SELECT

-- Select the stage and average goals from the subquery

stage,

ROUND(avg\_goals,2) AS avg\_goals

FROM

-- Select the stage and average goals in 2012/2013

(SELECT

stage,

avg(home\_goal + away\_goal) AS avg\_goals

FROM match

WHERE season = '2012/2013'

GROUP BY stage) AS s

WHERE

-- Filter the main query using the subquery

s.avg\_goals > (SELECT avg(home\_goal + away\_goal)

FROM match WHERE season = '2012/2013');

==

SELECT

-- Select the stage and average goals from s

stage,

ROUND(s.avg\_goals,2) AS avg\_goals,

-- Select the overall average for 2012/2013

(select avg(home\_goal + away\_goal) from match WHERE season = '2012/2013') AS overall\_avg

FROM

-- Select the stage and average goals in 2012/2013 from match

(SELECT

stage,

avg(home\_goal + away\_goal) AS avg\_goals

FROM match

WHERE season = '2012/2013'

GROUP BY stage) AS s

WHERE

-- Filter the main query using the subquery

s.avg\_goals > (SELECT avg(home\_goal + away\_goal)

FROM match WHERE season = '2012/2013');

Or with identical output but wanted by checker – see s.stage and avg\_goal not avg\_goals

SELECT

-- Select the stage and average goals from s

s.stage,

ROUND(s.avg\_goals,2) AS avg\_goal,

-- Select the overall average for 2012/2013

(select avg(home\_goal + away\_goal) from match WHERE season = '2012/2013') AS overall\_avg

FROM

-- Select the stage and average goals in 2012/2013 from match

(SELECT

stage,

avg(home\_goal + away\_goal) AS avg\_goals

FROM match

WHERE season = '2012/2013'

GROUP BY stage) AS s

WHERE

-- Filter the main query using the subquery

s.avg\_goals > (SELECT avg(home\_goal + away\_goal)

FROM match WHERE season = '2012/2013');

==