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European Football Data Analysis with SQL: Manchester United Performance

How many home and away goals did Manchester United score in each season?

```
SELECT season,
       SUM(CASE WHEN hometeam_id = 10260
                THEN home_goal END) AS home_goals,
       SUM(CASE WHEN awayteam_id = 10260
                THEN away_goal END) AS away_goals
FROM 'match.csv'
GROUP BY season;
```

	season object	home_goals float64	away_goals float64	
0	2011/2012	52	37	
1	2012/2013	45	41	
2	2013/2014	29	35	
3	2014/2015	41	21	

4 rows, showing 10 per page

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In the **2011/2012 season**, Manchester United as Home Team scored 52 goals, and as Away Team scored 37 goals. Compared to the seasons of the following years, that was the best and *highest-scored home goal*.

How many home and away matches did Manchester United win in each season?

```

SELECT season,
       COUNT(CASE WHEN hometeam_id = 10260 AND home_goal > away_goal
                  THEN id END) AS home_wins,
       COUNT(CASE WHEN awayteam_id = 10260 AND away_goal > home_goal
                  THEN id END) AS away_wins
FROM 'match.csv'
GROUP BY season;

```

	season object	home_wins int64	away_wins int64	
0	2011/2012	15	13	
1	2012/2013	16	12	
2	2013/2014	9	10	
3	2014/2015	14	6	

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For the **2012/2013 season**, Manchester United won 16 home matches and 12 away matches. This season was Manchester United's best in terms of home and away wins. Whatever, in the previous season, 2011/2012 won just one match more as away team and one less as home team.

What is Manchester United's average number of goals per season?

```

SELECT season,
       ROUND(AVG(CASE WHEN hometeam_id = 10260
                    THEN home_goal END),2) AS avg_homegoals,
       ROUND(AVG(CASE WHEN awayteam_id = 10260
                    THEN away_goal END),2) AS avg_awaygoals
FROM 'match.csv'
GROUP BY season;

```

	season object	avg_homegoals flo...	avg_awaygoals flo...	
0	2011/2012	2.74	1.95	
1	2012/2013	2.37	2.16	
2	2013/2014	1.53	1.84	
3	2014/2015	2.16	1.11	

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For the **2012/2013 season**, Manchester United recorded the highest average of goals scored as both home team (**2.37 goals**) and away team (**2.16 goals**). This season stood out as the most prolific in terms of goals for Manchester United, both home and away.

What percentage of Manchester's games did they win in each season?

```
SELECT season,
  ROUND(AVG(CASE WHEN hometeam_id = 10260 AND home_goal > away_goal THEN 1
    WHEN awayteam_id = 10260 AND home_goal < away_goal THEN
    END),2) AS pct_homewins,
  ROUND(AVG(CASE WHEN awayteam_id = 10260 AND away_goal > home_goal THEN 1
    WHEN awayteam_id = 10260 AND away_goal < home_goal THEN
    END),2) AS pct_awaywins
FROM 'match.csv'
GROUP BY season;
```

	season object	pct_homewins floa...	pct_awaywins floa...	
0	2011/2012	0.54	0.81	
1	2012/2013	0.57	0.86	
2	2013/2014	0.47	0.67	
3	2014/2015	0.7	0.55	

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Overall, the team showed a solid performance both at home and away throughout the seasons analysed. Of particular note was **the 2014/2015 season**, where Manchester United had a remarkably high winning percentage at home (**70%**), while their away performance was slightly lower.