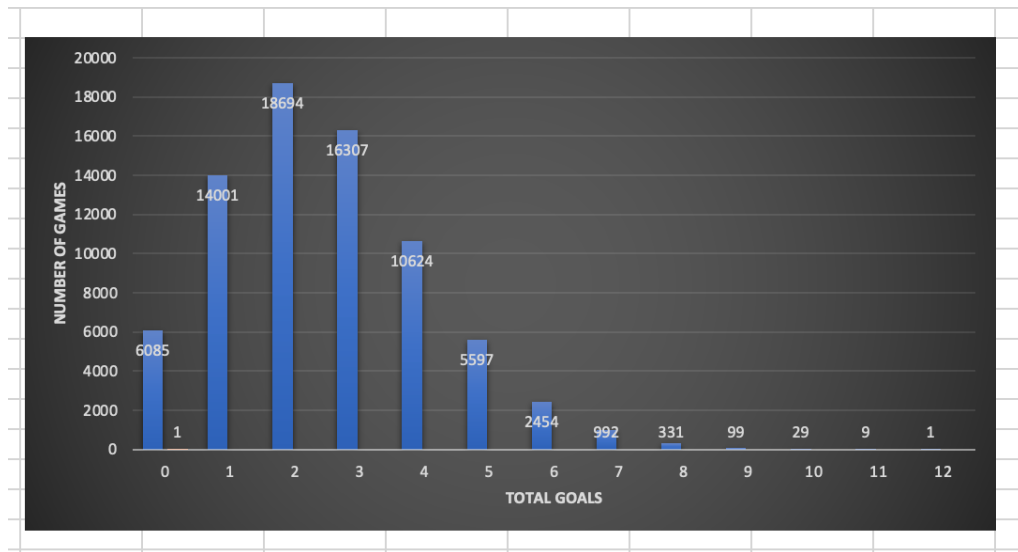


/*Q2 (2 pt)

For each total goal result, find how many games had that result. Use the england table and consider only the seasons since 1980. Order by total goal.*/

```
SELECT england.totgoal, count(season) as games
FROM england
WHERE england.season >= 1980
GROUP BY england.totgoal
ORDER BY england.totgoal;
```



/*Q7(2 pt)

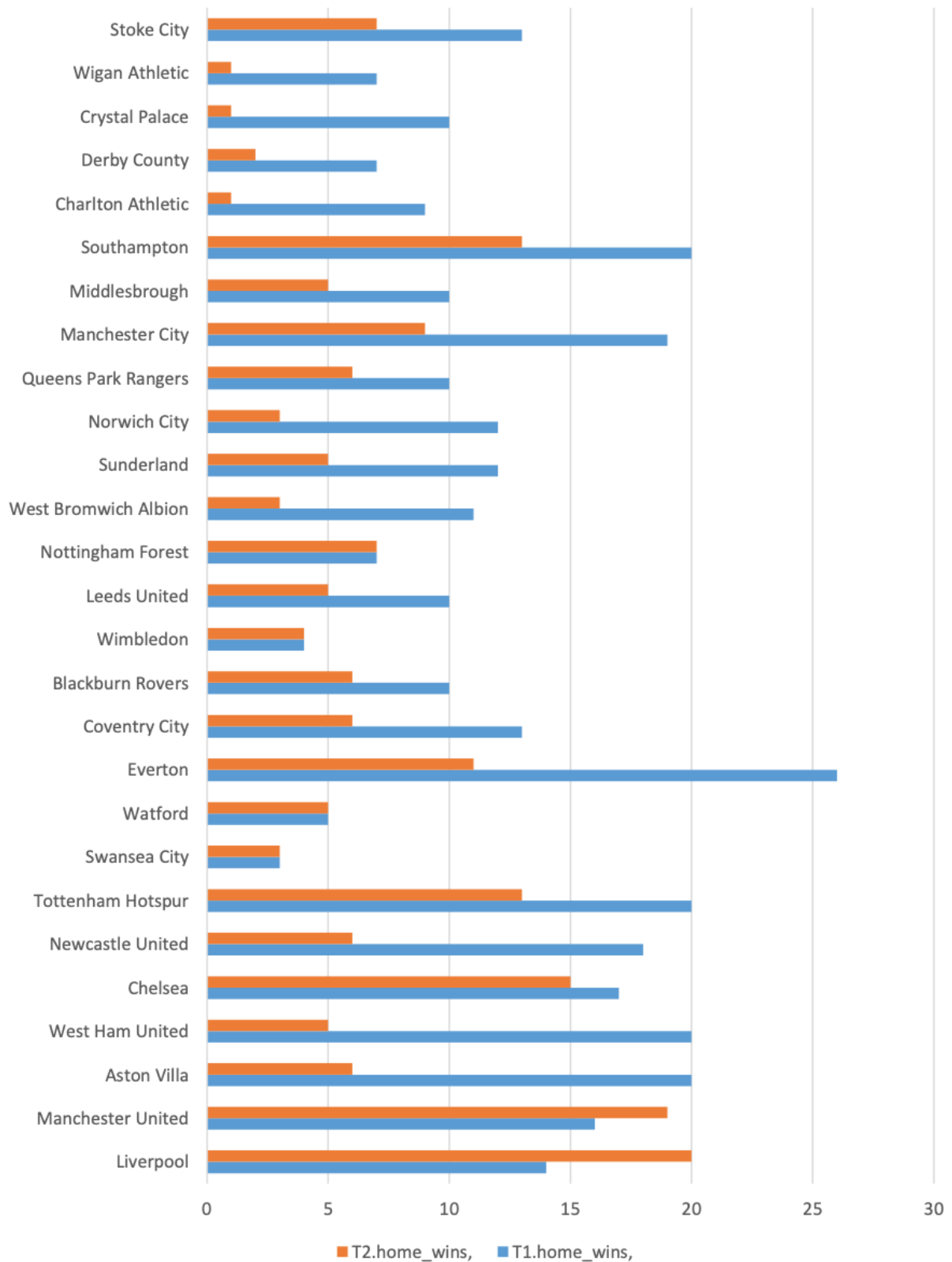
For each pair ('Arsenal', team2), report the number of home-wins and away-wins of Arsenal versus team2 and the number of home-wins and away-wins of team2 versus Arsenal (all since 1980).

Order the results by the second number of away-wins in descending order.

Use view W1.*/

```
SELECT W1.home, W1.visitor, W1.home_wins, W1.away_wins, W2.home_wins, W2.away_wins
FROM Wins W1 JOIN Wins W2 ON W1.home=W2.visitor AND W1.visitor=W2.home
WHERE W1.home='Arsenal'
ORDER BY W2.away_wins DESC;
```

Q7

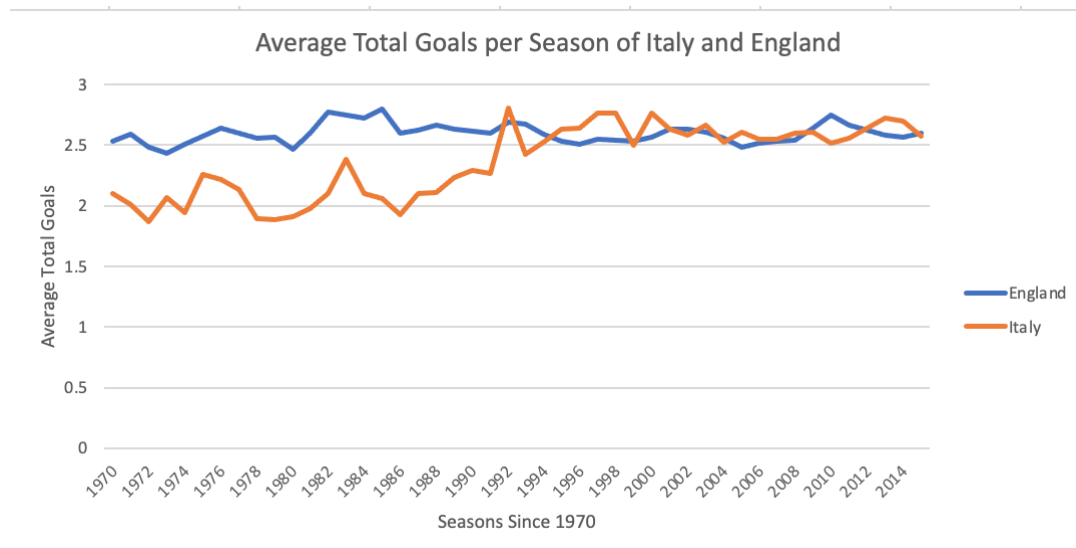


/*Q9 (3 pt)

Find the average total goals per season in England and Italy since the 1970 season.

The results should be (season, england_avg, italy_avg) triples, ordered by season.

```
SELECT eng.season, eng.avgGoal as england_avg, it.avgGoal as italy_avg
FROM (
    SELECT england.season, AVG(totgoal) AS avgGoal
    FROM england
    WHERE season >= 1970
    GROUP BY season
) AS eng
JOIN (
    SELECT italy.season, AVG(hgoal + vgoal) AS avgGoal
    FROM italy
    WHERE season >= 1970
    GROUP BY italy.season
) AS it
ON eng.season = it.season
ORDER BY eng.season;
```



It was in the year of 1992 when we can see Italy's avg total goals increased more than England's. After 1992, we can observe that the gap between Italy and England in their average total goals decreased.

/*Q10 (2 pt)

Find the number of games in France and England in tier 1 for each goal difference.

Return (goaldif, france_games, eng_games) triples, ordered by the goal difference.

Normalize the number of games returned dividing by the total number of games for the country in tier 1,

e.g. $1.0 * \text{COUNT}(*)/(\text{select count(*) from france where tier=1})$ */

```
SELECT f.goaldif, cntf AS france_games, cnte AS eng_games
FROM
  (SELECT goaldif, 1.0*COUNT(*)/(select count(*) from france where tier=1) AS cntf
   FROM france
   WHERE tier = 1
   GROUP BY goaldif) AS f
  JOIN
  (SELECT goaldif, 1.0*COUNT(*)/(select count(*) from england where tier=1) AS cnte
   FROM england
   WHERE tier = 1
   GROUP BY goaldif) AS e
  ON f.goaldif=e.goaldif
ORDER BY f.goaldif;
```

