

Q1. Count the number of players by the first letter of their surname. List the results in alphabetical order.

Hint: The function LEFT(str, n) returns the first n characters of the string value str.

```
SELECT LEFT(LastName, 1), COUNT(*)  
FROM player  
GROUP BY(LEFT(LastName, 1))  
ORDER BY(LEFT (LastName, 1));
```

	Initial_of_Surname	Count_of_Players
►	A	7
	B	16
	C	6
	D	15
	E	5
	F	8
	G	8
	H	10
	J	3
	K	2
	L	10
	M	12
	O	2
	P	11
	R	5
	S	12
	T	5
	W	7

18 rows returned

Q2. List the game ID, year, and participating team names for every cancelled game.

```
SELECT game.GameID, season.SeasonYear, t1.TeamName, t2.TeamName
FROM season, game, team t1, team t2
WHERE (season.SeasonID = game.SeasonID
      AND game.Team1 = t1.TeamID
      AND t2.TeamID = game.Team2
      AND game.T1Score IS NULL
      AND game.T2Score IS NULL);
```

	Game_ID	Season_Year	Team1_Name	Team2_Name
►	44	2017	Footscray Women	Moorabbin Women

1 row returned

Q3. List the first and last names of players who have played more than 20 games in total across all competitions.

```
SELECT FirstName, LastName  
FROM player  
WHERE player.PlayerID IN (SELECT PlayerID  
                           FROM playerteam  
                           GROUP BY PlayerID  
                           HAVING COUNT(*) > 20) ;
```

	FirstName	LastName
▶	Diana	Rigg
	Cinda	Rella
	Bo	Peep

3 rows returned

Q4. For all current members of the Melbourne City club who have played fewer than 12 games across all competitions, list their first and last names and the number of games they have played. Place the players who have played the most games first.

```
SELECT FirstName, LastName, COUNT(*)
FROM player NATURAL JOIN clubplayer NATURAL JOIN playerteam
WHERE clubplayer.ClubID = 2
      AND clubplayer.ToDate IS NULL
      AND player.PlayerID IN (SELECT PlayerID
                              FROM playerteam
                              GROUP BY PlayerID
                              HAVING COUNT(*) <12)
GROUP BY playerteam.PlayerID
ORDER BY COUNT(*) desc;
```

	FirstName	LastName	Number_of_Games_Played
►	Kimberley	Ranges	11
	Callum	Hotspor	10
	Linda	Evangelista	10
	Melanie	Griffith	9
	Don	Dunstan	8

5 rows returned

Q5. List the names of men who play in the Bingham Trophy but not the Dewar Shield competition.

```
SELECT DISTINCT FirstName, LastName
FROM player NATURAL JOIN playerteam NATURAL JOIN game NATURAL JOIN
season NATURAL JOIN competition
WHERE (Sex LIKE 'M'
      AND PlayerID = playerteam.PlayerID
      AND playerteam.GameID = game.GameID
      AND game.SeasonID = season.SeasonID
      AND season.CompetitionID = competition.CompetitionID
      AND (competition.CompetitionID <> 1 AND competition.CompetitionID = 3));
```

	FirstName	LastName
►	Arthur	Dayley
	Bruce	Banner
	Steven	Spielberg
	Alex	Skaarsgard
	Brian	Blessed
	Stuart	Mills
	Arnold	Bax
	Broderick	Davis
	Seth	Greene
	Allan	Bennett
	Revan	Jackson

64 rows returned

Q6. List the full name (in one column) and current club of players who did not play a game in any competition in the 2017 season.

```
SELECT CONCAT(FirstName, ' ', LastName), club.ClubName
FROM player NATURAL JOIN club NATURAL JOIN team NATURAL JOIN game
NATURAL JOIN season NATURAL JOIN playerteam
WHERE (club.ClubID = team.ClubID
      AND (team.TeamID = game.Team1 OR team.TeamID = game.Team2)
      AND game.SeasonID = season.SeasonID
      AND season.SeasonID = 2017
      AND player.PlayerID IN (SELECT PlayerID
                              FROM playerteam
                              GROUP BY PlayerID
                              HAVING COUNT(*) = 0));
```

Full_Name	ClubName

0 rows returned

Q7. Which club currently has the fewest female players? Print the club name and the number of female players in it.

```
SELECT ClubName , COUNT(*)  
FROM club NATURAL JOIN clubplayer NATURAL JOIN player  
WHERE (ClubID = clubplayer.ClubID  
      AND clubplayer.PlayerID = player.PlayerID  
      AND Sex LIKE 'F')  
GROUP BY ClubName  
ORDER BY Count(*)  
LIMIT 1;
```

	ClubName	Number_of_Female_Players
►	Animatus Rugby Club	8

1 row returned

Q8. A team has a “winless season” when it does not win any of the games it plays in that season. Find the teams that have had exactly one winless season. List the team name and the year in which their winless season occurred.

rows returned

Q9. Find the first and last names of players who have played against all their former clubs.

```
SELECT DISTINCT FirstName, LastName  
FROM player NATURAL JOIN clubplayer  
WHERE (PlayerID = clubplayer.PlayerID  
      AND clubplayer.ToDate IS NOT NULL)
```

	FirstName	LastName
▶	Arthur	Dayley
	Karin	Carpenter

2 rows returned

Q10. How many points did the 'Melbourne City Women' team score in the Williams Plate in 2017?

```
SELECT SUM(score) AS TotalScore
FROM (
  (SELECT SUM(T1Score) AS score
   FROM team NATURAL JOIN playerteam NATURAL JOIN game
   WHERE (game.SeasonID = 2
        AND playerteam.TeamID = 12
        AND game.Team1 = 12)
  )
  UNION
  (SELECT SUM(T2Score) AS score
   FROM team NATURAL JOIN playerteam NATURAL JOIN game
   WHERE (game.SeasonID = 2
        AND playerteam.TeamID = 12
        AND Team2 = 12)
  )
)
AS scores;
```

TotalScore
768

1 rows returned