



## SQL Home Assignment 2

Difficulty Level: **Easy**

Each question carries **5 points**.

**Problem Statement:** Given is the **football player database**. Run the following queries to check your basic working knowledge of SQL and self-assess on the basis of your score.

**Note:** PFA database file, **'football.sql'**, run it in your workbench to create the database.

1. Let's select the columns FirstName, LastName, and Height from the **players table**.
2. Let's see the Unique Team\_Position from the players table.
3. Write a query that filters only those players that have a Height greater than 180cm.
4. Let's see the insights we can get from the club FC Barcelona.
  - Query 1: Let's see how many Barcelona players are in our table.
  - Query 2: Calculate the average height of Barcelona players.
  - Query 3: Sum the wage of Barcelona players.
5. Let's find out who are the tallest players on our table.
6. Query: Show players from France (FRA) with a height greater than 180cm.
7. Query: Show players that are from France (FRA) or that have a height greater than 180cm.
8. Let's find out which players are between the ages of 20 and 30.
9. Let's get a list of players who play either for FC Barcelona or Real Madrid.
10. Let's filter those players with names that start with the letter "s".

## Expected Outputs:

Que 1:

FirstName	LastName	Height
"Lionel Andrés"	Messi	170
"Cristiano Ronaldo"	"dos Santos"	187
Neymar	"da Silva"	175
Jan	"Oblak"	188
Eden	"Hazard"	175
Kevin	"De Bruyne"	181
Marc-André	"ter Stegen"	187
Virgil	"van Dijk"	193
Luka	"Modrić"	172
Mohamed	"Salah"	175

Que 2:

Team_Position
RW
LW
CAM
GK
LF
CM
ST
CDM
LM
RM
RB
CF
CB
RAM
LAM

Que 3:

FirstName	LastName	Height
"Cristiano Ronaldo"	"dos Santos"	187
Jan	Oblak	188
Kevin	"De Bruyne"	181
Marc-André	"ter Stegen"	187

Virgil	"van Dijk"	193
Kalidou	Koulibaly	187
Harry	Kane	188
Alisson	Becker	191
David	"De Gea"	192
Giorgio	Chiellini	187
+-----+-----+-----+		

Que 4:

Query Output 1:

:+-----+
COUNT(Playerid)
+-----+
15
+-----+

Query Output 2:

+-----+
AVG(Height)
+-----+
181.2667
+-----+

Query Output 3:

+-----+
SUM(Wage_eur)
+-----+
3945
+-----+

Que 5:

+-----+-----+-----+		
FirstName	LastName	Height
+-----+-----+-----+		
Thibaut	Courtois	199
Gianluigi	Donnarumma	196
Jiří	Pavlenka	196
Wojciech	Szczęśny	195
Niklas	Süle	195
Zlatan	Ibrahimović	195
Gerard	Piqué	194
Virgil	"van Dijk"	193
Samir	Handanović	193
Manuel	Neuer	193
+-----+-----+-----+		

Que 6:

```
+-----+-----+-----+
| FirstName | LastName | Height | Nationality |
+-----+-----+-----+
| Paul      | Pogba    | 191    | FRA         |
| Hugo      | Lloris   | 188    | FRA         |
| Aymeric   | Laporte  | 189    | FRA         |
| Karim     | Benzema  | 185    | FRA         |
| Samuel    | Umtiti   | 182    | FRA         |
| Raphaël   | Varane   | 191    | FRA         |
| Clément   | Lenglet  | 186    | FRA         |
| Lucas     | Hernández| 182    | FRA         |
| Stéphane  | Ruffier  | 188    | FRA         |
+-----+-----+-----+
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Que 7:

```
+-----+-----+-----+
|   FirstName   | LastName | Height | Nationality |
+-----+-----+-----+
| "Cristiano Ronaldo" | "dos Santos" | 187 | PRT         |
| Jan            | Oblak     | 188 | SGP         |
| Kevin          | "De Bruyne" | 181 | BLX         |
| Marc-André     | "ter Stegen" | 187 | DEU         |
| Virgil         | "van Dijk" | 193 | NPL         |
| Kylian         | Mbappé    | 178 | FRA         |
| Kalidou        | Koulibaly | 187 | SEN         |
| Harry          | Kane      | 188 | UK          |
| Alisson        | Becker    | 191 | BRA         |
| David          | "De Gea"  | 192 | ESP         |
+-----+-----+-----+
```

Que 8:

```
+-----+-----+-----+
| FirstName | LastName | Age |
+-----+-----+-----+
| Neymar    | "da Silva" | 27 |
| Jan       | Oblak      | 26 |
| Eden      | Hazard     | 28 |
| Kevin     | "De Bruyne" | 28 |
| Marc-André | "ter Stegen" | 27 |
| Virgil    | "van Dijk" | 27 |
| Mohamed   | Salah      | 27 |
| Kylian    | Mbappé     | 20 |
| Kalidou   | Koulibaly  | 28 |
| Harry     | Kane       | 25 |
+-----+-----+-----+
```

Que 9:

FirstName	LastName	Age	Club
"Lionel Andrés"	Messi	32	"FC Barcelona"
Eden	Hazard	28	"Real Madrid"
Marc-André	"ter Stegen"	27	"FC Barcelona"
Luka	Modrić	33	"Real Madrid"
Sergio	Ramos	33	"Real Madrid"
Luis	Alberto	32	"FC Barcelona"
Sergio	Busquets	30	"FC Barcelona"
Antoine	Griezmann	28	"FC Barcelona"
Thibaut	Courtois	27	"Real Madrid"
Gerard	Piqué	32	"FC Barcelona"

Que 10:

FirstName	LastName
Sergio	Agüero
Sergio	Ramos
Sergio	Busquets
Samir	Handanovič
Sadio	Mané
Samuel	Umtiti
Sergej	Milinković-Savić
Saúl	Ñíguez
Serge	Gnabry
Stefan	"de Vrij"
Stéphane	Ruffier
Salvatore	Sirigu
Sokratis	Papastathopoulos
Sergio	Canales