

Welcome

X +

← → Q Pemodelan Data untuk Data Science



EPL Data Statistics 20/21 Season

Group G



Proprietors



← → Q Team Members

Group G



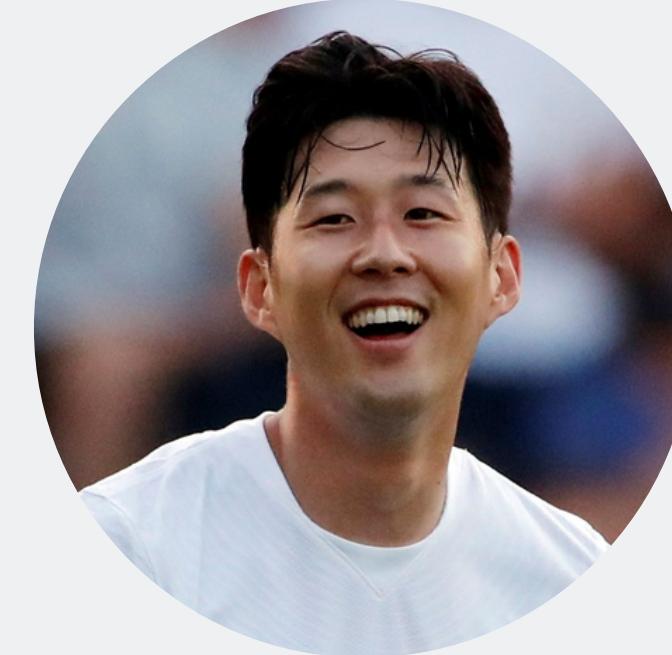
**Arnol Hadi
Wijaya**

C14190092



**Daniel
Marthin**

C14190086



**Christopher
Louis**

C14190088

Problems



Daftar Leaderboard

Leaderboard EPL 20/21 meliputi Top Scorer, Top Assist, Most Passes, Most Minutes Played, Most Yellow Card, Most Red Card

Filter Players & Matches

Menampilkan Data Players menggunakan Filter Club, Nation, Position. Menampilkan History Matches menggunakan Filter Club.

Big Six Statistics

Menampilkan Statistik Jumlah Pemain U-23 dan Jumlah Kemenangan Home dan Away 6 Club Sepak Bola terbesar di Inggris.

MongoDB

```
_id: ObjectId('62b066692d45a746918eba64')
Name: "Mason Mount"
Club: "Chelsea"
Nationality: "ENG"
Position: "MF, FW"
Age: 21
Matches: 36
Starts: 32
Mins: 2890
Goals: 6
Assists: 5
Passes_Attempted: 1881
Perc_Passes_Completed: 82.3
Penalty_Goals: 1
Penalty_Attempted: 1
xG: 0.21
xA: 0.24
Yellow_Cards: 2
Red_Cards: 0
```

Player Stats

```
_id: ObjectId('62b1911477b9cf0424b2de6c')
Match ID: 1
Team: "Arsenal"
Match: 1
Date: 2020-09-11T17:00:00.000+00:00
Home Team: "Fulham"
Home Score: 0
Away Team: "Arsenal"
Away Score: 3
Grounds: "Craven Cottage, London"
Result: "AW"
```

Matches



← → Q Q RDMS

MySQL

Club

id_club	nama_club	nama_stadion
1	Arsenal	Emirates Stadium, London
2	Aston Villa	Villa Park, Birmingham
3	Brighton	Amex Stadiud, Falmer
4	Burnley	Turf moor, Burnley
5	Chelsea	Stamford Bridge, London
6	Crystal Palace	Selhurst Park, London

Nationality

id_nationality	code	nation
1	ALG	Aljazair
2	ARG	Argentina
3	AUS	Australia
4	AUT	Austria
5	BEL	Belgia
6	BFA	Burkina Faso
7	BIH	Bosnia dan Herzegovina

Position

id_position	position
1	GK
2	DF
3	MF
4	FW

← → Q Leaderboard

Leaderboard

Name	Goals	Matches
Harry Kane	23	35
Mohamed Salah	22	37
Bruno Fernandes	18	37
Son Heung-min	17	37
Patrick Bamford	17	38
Dominic Calvert-Lewin	16	33

```
// topscorer
$datats = $collection->find(
    [],
    [
        'limit' => 10,
        'sort' => ['Goals' => -1]
    ]
);
```

Count & Limit

```
<?php
foreach ($datats as $cursor){
    echo "<tr class='active-row'>
        <td> " . $cursor["Name"] . "</td>
        <td> " . $cursor["Goals"] . "</td>
        <td> " . $cursor["Matches"] . "</td>
    </tr>";
}
?>
```

← → Q Filter = (Club || Nation || Position)

Player Filter

Name	Club	Nationality	Position	Age	Matches	Starts	Goals	Assists	Pass Completed %
Mason Mount	Chelsea	ENG	MF,FW	21	36	32	6	5	82.3
Edouard Mendy	Chelsea	SEN	GK	28	31	31	0	0	84.6
Timo Werner	Chelsea	GER	FW	24	35	29	6	8	77.2
Benjamin Wells	Chelsea	ENG	DF	23	27	27	3	5	78.6
Antoine Griezmann	Chelsea	ENG	DF	20	32	25	1	2	85
Andrea Belotti	Chelsea	ESP	DF	30	26	24	1	2	87.5
Antoine Griezmann	Chelsea	FRA	MF	29	30	24	0	2	86.6
Antoine Griezmann	Chelsea	ITA	MF	28	28	23	7	1	89.5
Andrea Belotti	Chelsea	BRA	DF	35	23	23	2	0	93.5
Antoine Griezmann	Atletico Madrid	FRA	DF	25	24	22	5	0	91.9
Antoine Griezmann	Croatia	CRO	MF	26	27	21	0	1	91

```
$sql = "SELECT nama_club FROM club";
$klub = $conn->query($sql);

$klublist = "";
//collect clubs list
while($row = $klub->fetch_assoc()) {
    $klublist .= '<option value="'.$row["nama_club"].'">'.$row["nama_club"].'</option>';
}
```

→ Collect Data From MySQL

← → Q Filter = (Club)

Matches Filter

Club Search

Game Date	Home Team	Home Score	Away Score	Away Team	Stadium
11-Sep-2020	Fulham	0	3	Arsenal	Craven Cottage, London
18-Sep-2020	Arsenal	2	1	West Ham	Emirates Stadium, London
27-Sep-2020	Liverpool	3	1	Arsenal	Anfield, Liverpool
03-Oct-2020	Arsenal	2	1	Sheffield United	Emirates Stadium, London
16-Oct-2020	Manchester City	1	0	Arsenal	Etihad Stadium, Manchester
24-Oct-2020	Arsenal	0	1	Leicester	Emirates Stadium, London
31-Oct-2020	Manchester United	0	1	Arsenal	Old Trafford, Manchester
07-Nov-2020	Arsenal	0	3	Aston Villa	Emirates Stadium, London
21-Nov-2020	Leeds	0	0	Arsenal	Elland Road, Leeds
28-Nov-2020	Arsenal	1	2	Wolves	Emirates Stadium, London
05-Dec-2020	Spurs	2	0	Arsenal	Tottenham Hotspur Stadium, London

← → Q Club Stats

Big Six

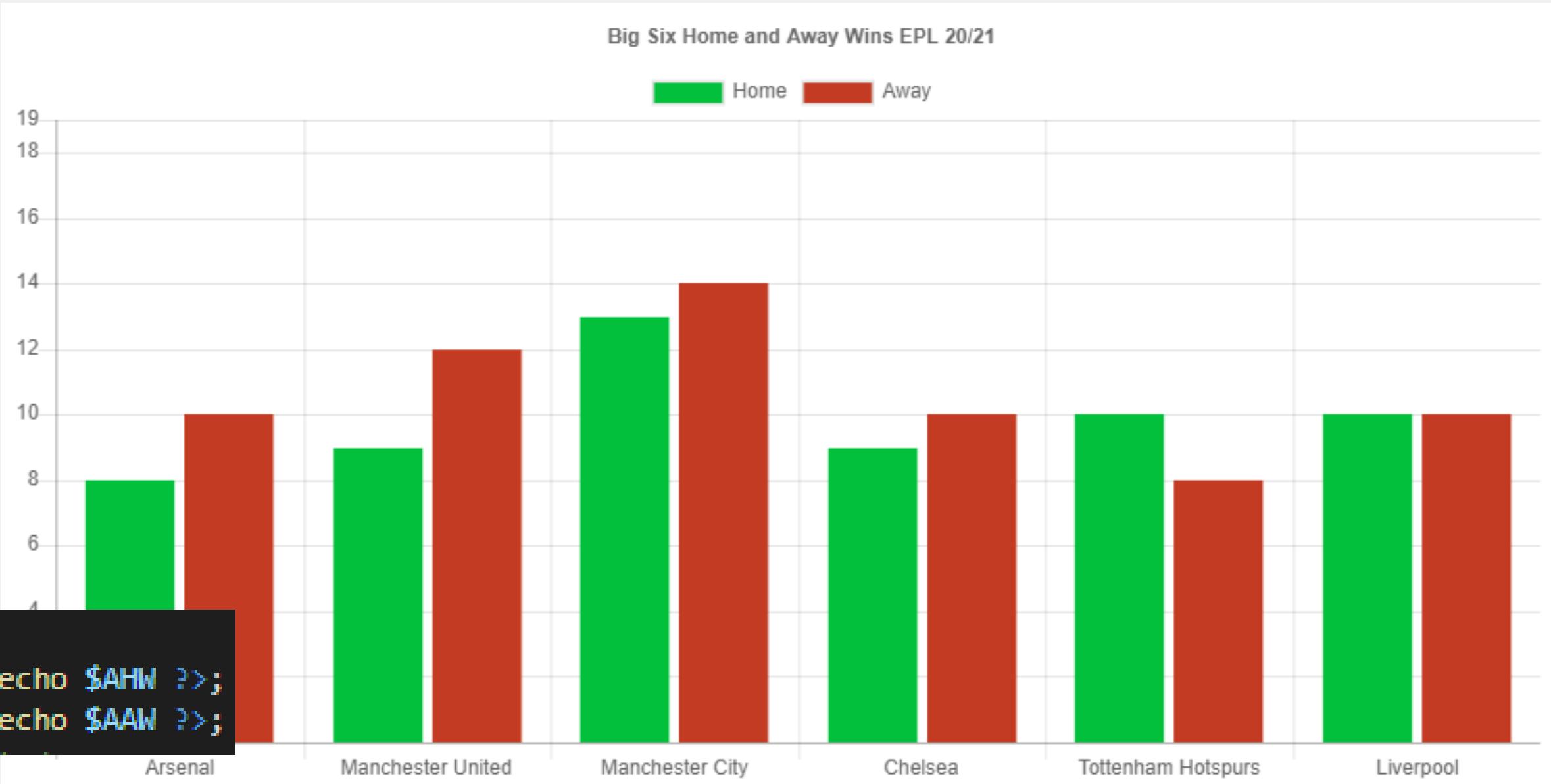
Home and Away Wins

```
//Arsenal Home Wins
$AHW = $collection2->count(
    ['Team' => 'Arsenal', 'Result' => 'HW']
);
//Arsenal Away Wins
$AAW = $collection2->count(
    ['Team' => 'Arsenal', 'Result' => 'AW']
);

//Arsenal
var ahw = <?php echo $AHW ?>;
var aaw = <?php echo $AAW ?>;
```

Filtered Count

Collect Integer in Js



Visualization using Chart.js

← → Q Club Stats

Big Six

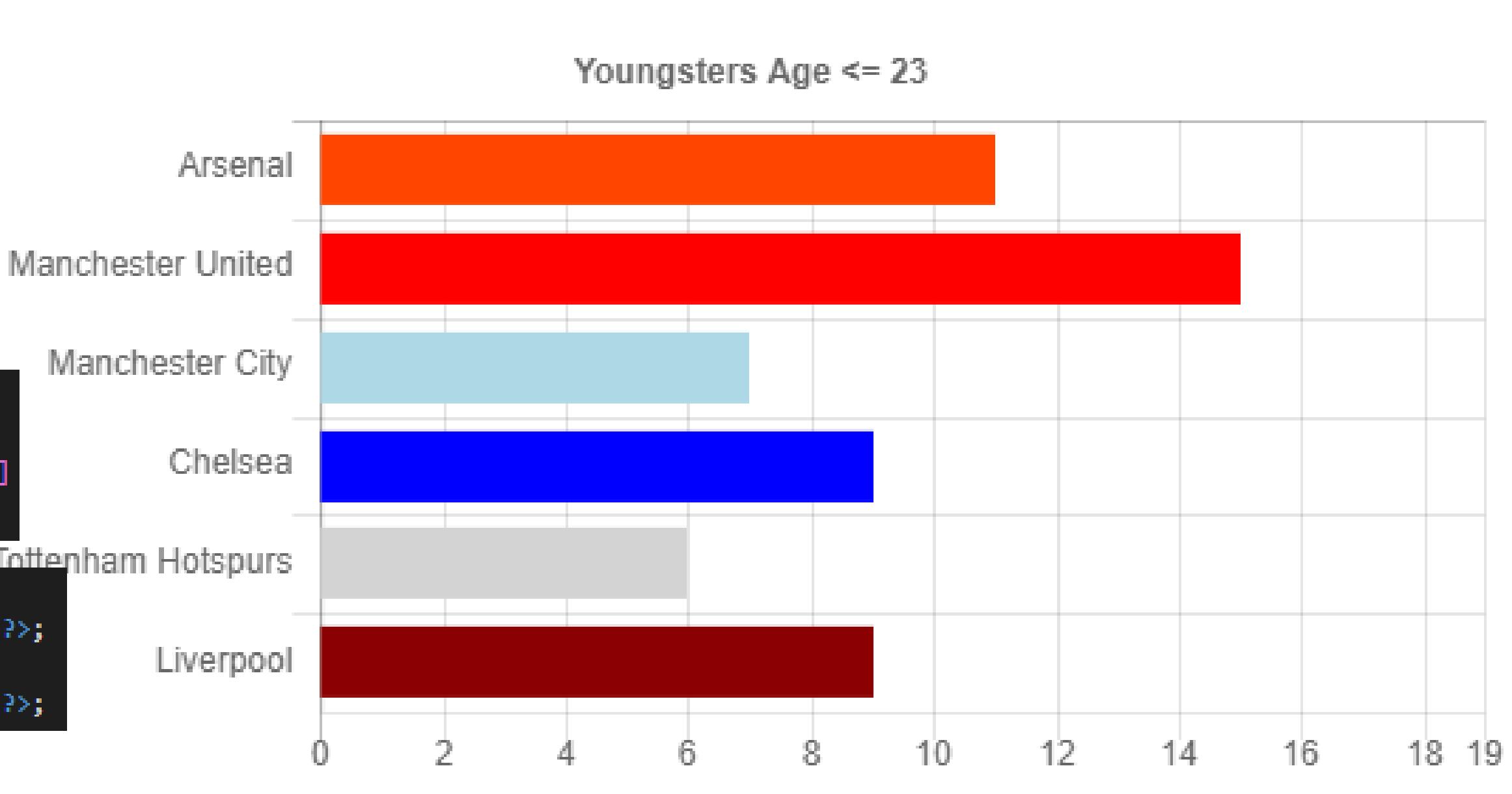
Youngsters U-23

```
//Age Arsenal >= 30
$ageAR = $collection->count(
    ['Age'=>['$lte'=>23], 'Club' => 'Arsenal']
);
```

Filtered Count

```
//Arsenal
var agear = <?php echo $ageAR ?>;
//Manchester United
var agemu = <?php echo $ageMU ?>;
//Tottenham Hotspur
var ageth = <?php echo $ageTH ?>;
//Chelsea
var agech = <?php echo $ageCH ?>;
//Liverpool
var ageliv = <?php echo $ageLIV ?>;
```

Collect Integer in Js



Visualization using Chart.js

감사합니다

X +

← → Q UAS Pemodelan Data untuk Data Science

Thankyou!

