REPORT

1. **Present the age structure of the team ascending (player_name, age);**

```
SELECT player_name, age
FROM team
ORDER BY age
```

player_name	age
Andriy Lunin	21
Eder Militao	22
Fede Valverde	22
Luka Jovic	22
Thibaut Courtois	28
Casemiro	28
Toni Kroos	30
Nacho Fernandez	30
Karim Benzema	32
Sergio Ramos	34

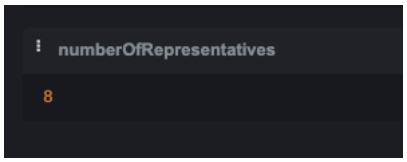
2. **Present the age structure for each role DESC (role, player_name, age);**

```
SELECT role, player_name, age
FROM team
ORDER BY role, age DESC
```

role	player_name	age
D	Sergio Ramos	34
D	Nacho Fernandez	30
D	Eder Militao	22
F	Karim Benzema	32
F	Luka Jovic	22
GK	Thibaut Courtois	28
GK	Andriy Lunin	21
M	Toni Kroos	30
M	Casemiro	28
M	Fede Valverde	22

3. **Indicate how many country representatives are in the team (total);**

```
SELECT COUNT(country_representatives) AS numberOfRepresentatives
FROM data
WHERE country_representatives = 'x'
```



numberOfRepresentatives
8

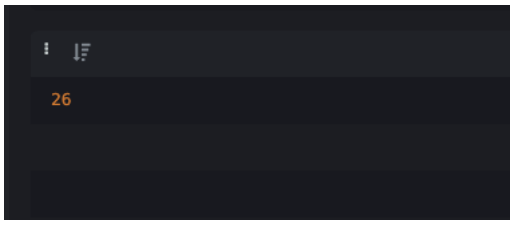
4. **Present how many country representative are in the team for each specific country (country, number);**

```
SELECT country, COUNT(country_representatives) AS numberOfRepresentatives
FROM data
WHERE country_representatives = 'x'
GROUP BY country
```

country	numberOfRepresentatives
Belgium	1
Brazil	2
Germany	1
Serbia	1
Spain	1
Ukraine	1
Uruguay	1

5. **Determine the average age in the team;**

```
SELECT AVG(age)
FROM team
```



26

6. **Determine the average age for each role (role, age);**

```
SELECT role, AVG(age)
FROM team
GROUP BY role
```

role	
D	28
F	27
GK	24
M	26

7. **Present the youngest and the oldest player in the team (player_name, age);**

```
SELECT player_name, age
FROM team
WHERE age = (SELECT MIN(age) FROM team)
OR age = (SELECT MAX(age) FROM team)
```

player_name	age
Andriy Lunin	21
Sergio Ramos	34

8. Determine team's market value;

```
SELECT SUM(market_value)
FROM data
```

374

9. Present the market value structure ASC (player_name, market_value);

```
SELECT player_name, market_value
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
ORDER BY market_value
```

player_name	market_value
Andriy Lunin	3
Nacho Fernandez	10
Sergio Ramos	14
Luka Jovic	22
Karim Benzema	25
Eder Militao	40
Casemiro	50
Toni Kroos	65
Fede Valverde	70
Thibaut Courtois	75

10. Present the market value structure for each role ASC (role, player_name, market_value);

```
SELECT role, player_name, market_value
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
ORDER BY role, market_value
```

role	player_name	market_value
D	Nacho Fernandez	10
D	Sergio Ramos	14
D	Eder Militao	40
F	Luka Jovic	22
F	Karim Benzema	25
GK	Andriy Lunin	3
GK	Thibaut Courtois	75
M	Casemiro	50
M	Toni Kroos	65
M	Fede Valverde	70

11. Determine the average market value of the team;

```
SELECT AVG(market_value)
FROM data
```

37

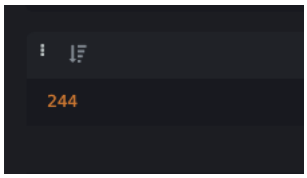
12. Determine the average market value for each role (role, market_value);

```
SELECT role, AVG(market_value)
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
GROUP BY role
```

role	
D	21
F	23
GK	39
M	61

13. Count transfer amount;

```
SELECT SUM(transfer_amount)
FROM data
```



244

14. Determine the cheapest and the most expensive player;

```
SELECT player_name, transfer_amount
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
WHERE transfer_amount = (SELECT MIN(transfer_amount) FROM data)
OR transfer_amount = (SELECT MAX(transfer_amount) FROM data)
ORDER BY transfer_amount
```

player_name	transfer_amount
Nacho Fernandez	0
Casemiro	0
Fede Valverde	0
Luka Jovic	63

15. How many alumnus are in the team;

```
SELECT COUNT(previous_club_country)
FROM data
WHERE previous_club_country = 'alumnus'
```

16. Determine how many players came to the team from specific countries (country, number);

```
SELECT country, COUNT(player_number)
FROM data
GROUP BY country
```

country	
Belgium	1
Brazil	2
France	1
Germany	1
Serbia	1
Spain	2
Ukraine	1
Uruguay	1

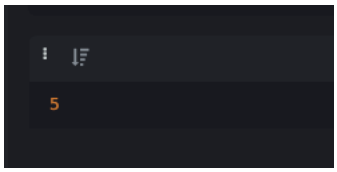
17. Show players with the lowest and the highest transfer chance;

```
SELECT player_name, transfer_chance
FROM team
WHERE transfer_chance = (SELECT MIN(transfer_chance) FROM team)
OR transfer_chance = (SELECT MAX(transfer_chance) FROM team)
ORDER BY transfer_chance
```

player_name	transfer_chance
Fede Valverde	0
Sergio Ramos	0
Thibaut Courtois	0
Luka Jovic	3
Eder Militao	3

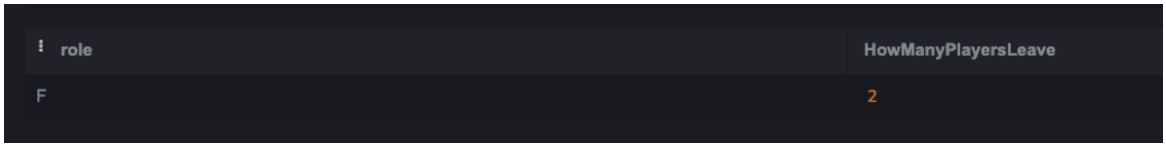
18. How many players stay in the team, if players with transfer chance >= 2 leave;

```
SELECT COUNT(player_number)
FROM team
WHERE transfer_chance < 2
```



19. Which role will have the biggest gaps, if players with transfer chance 1 or 3 leave;

```
SELECT TOP 1 role, COUNT(player_number) AS HowManyPlayersLeave
FROM team
WHERE transfer_chance IN ('1','3')
GROUP BY role
ORDER BY HowManyPlayersLeave DESC
```

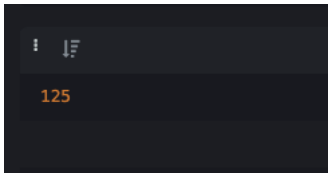


20. How many players stay in each role, if players with transfer chance >= 2 leave;

```
SELECT role, COUNT(player_number) AS HowManyPlayersStay
FROM team
WHERE transfer_chance < 2
GROUP BY role
```

21. The team makes money on selling player, at least as much as his market value. If players with transfer chance >= 2 leave, how much money the team gain?

```
SELECT SUM(market_value)
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
WHERE transfer_chance >= 2
```



22. The team makes money on selling player, at least as much as his market value. How much money the team gain or lose on selling each player (player_name, amount);

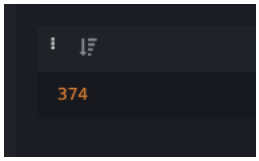
```
SELECT player_name, market_value - transfer_amount AS loseOrGainAmount
```

```
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
```

player_name	
Andriy Lunin	-6
Casemiro	50
Eder Militao	-10
Fede Valverde	70
Karim Benzema	-10
Luka Jovic	-41
Nacho Fernandez	10
Sergio Ramos	-13
Thibaut Courtois	40
Toni Kroos	40

23. The team makes money on selling player, at least as much as his market value. Count club budget after selling all players (club budget now = 0);

```
SELECT SUM(market_value)
FROM data
```



374

24. Each player has market value, transfer amount and transfer chance. Based on this data point one player from each role that has to be sold. Please justify your answer.

```
SELECT player_name, role, market_value - transfer_amount AS loseOrGainAmount, transfer_chance
FROM data AS data
INNER JOIN team AS team
ON data.player_number = team.player_number
ORDER BY role
```

Answer:

- Eder Militao: he does not have the biggest lost in D role, but his chance to leave are the biggest (Sergio Rames has bigger lost, but 0 chance to transfer);
- Luka Jovic: his value is the biggest lost from the whole team, he has the highest chance to transfer, so he can leave (F role);
- Andriy Lunin: the biggest chance and lost;
- Casemiro: here is the most difficult. He has good number with value (better than Toni Kroos), but he has bigger chance to transfer (2 to 1). Casemiro is younger and very valuable at the market, so it is good time to say “goodbye” to him

player_name	role	loseOrGainAmount	transfer_chance
Eder Militao	D	−10	3
Nacho Fernandez	D	10	2
Sergio Ramos	D	−13	0
Karim Benzema	F	−10	1
Luka Jovic	F	−41	3
Thibaut Courtois	GK	40	0
Andriy Lunin	GK	−6	2
Casemiro	M	50	2
Fede Valverde	M	70	0
Toni Kroos	M	40	1