

- 1) Посчитать количество матчей, в которых больше голов забила команда на своем поле;

```
select count(*) as match_count  
from `match`  
where home_team_goal > away_team_goal
```

Ответ:11917

- 2) Вывести сезоны, лиги и этапы, во время которых среднее количество голов по всем матчам этапа > 3

```
select season, stage, `name`, avg(home_team_goal + away_team_goal) as  
avg_goals  
FROM `match` JOIN league  
ON `match`.league_id = league.id  
group by season, stage, `name`  
having avg_goals > 3
```

- 3) Вывести для каждой команды средний показатель buildUpPlaySpeed и средний показатель buildUpPlayPassing. Верно ли, что если средний buildUpPlaySpeed у команды больше, то больше и средний buildUpPlayPassing?

```
select team_api_id,  
avg(buildUpPlaySpeed),  
avg(buildUpPlayPassing)  
FROM team_attributes  
group by team_api_id  
order by avg(buildUpPlaySpeed)
```

Ответ: неверно

- 4) Вывести сезон, название лиги и дату последнего матча лиги в сезоне

```
select `name`, season, max(`date`) as max_date  
FROM `match` JOIN league  
on `match`.league_id = league.id
```

group by season, `name`

5) Для каждой команды вывести количество сыгранных матчей

SELECT

h.home + a.away as m, a.api_id as team_api_id

FROM

(SELECT COUNT(home_team_api_id) as home,

home_team_api_id as api_id

FROM `match`

GROUP BY home_team_api_id) as h

JOIN

(SELECT COUNT(away_team_api_id) as away,

away_team_api_id as api_id

FROM `match`

GROUP BY away_team_api_id) as a

ON h.api_id = a.api_id

6) Вывести названия команд, которые ни разу не играли последней игре сезона
(у каждой лиги последний матч сезона свой)

select distinct team_long_name

from team

left join

(

select `match`.league_id, `match`.season, `match`.home_team_api_id,
`match`.away_team_api_id, t1.max_date

from

(

select league_id, season, max(`date`) as max_date

```
from `match`  
  
group by league_id, season  
  
) as t1
```

```
join `match` on t1.league_id = `match`.league_id and t1.season = `match`.season and  
t1.max_date = `match`.date  
  
) as t2
```

```
on (team_api_id = t2.home_team_api_id  
or team_api_id = t2.away_team_api_id)  
  
where (t2.home_team_api_id is null  
or t2.away_team_api_id is null)
```

7) Вывести названия команд, которые играли в последней игре сезона (у каждой лиги последний матч сезона свой)

```
select distinct team_long_name  
  
from team  
  
left join  
  
(  
  
select `match`.league_id, `match`.season, `match`.home_team_api_id,  
`match`.away_team_api_id, t1.max_date  
  
from  
  
(  
  
select league_id, season, max(`date`) as max_date  
  
from `match`  
  
group by league_id, season  
  
) as t1
```

```
join `match` on t1.league_id = `match`.league_id and t1.season = `match`.season and  
t1.max_date = `match`.date  
  
) as t2
```

```
on (team_api_id = t2.home_team_api_id  
or team_api_id = t2.away_team_api_id)  
where (t2.home_team_api_id is not null  
or t2.away_team_api_id is not null)
```

8) Какая команда забила меньше всего голов (сумма за весь период наблюдения)
и сколько голов?

```
select team_long_name,  
t3.goals  
from team join  
(select  
t1.goals + t2.goals as goals,  
t2.api_id as team_api_id  
from  
(select sum(home_team_goal) as goals,  
home_team_api_id as api_id  
from `match`  
group by api_id) as t1  
join  
(select sum(away_team_goal) as goals,  
away_team_api_id as api_id  
from `match`  
group by api_id) as t2  
on t1.api_id = t2.api_id) as t3
```

```
on team.team_api_id = t3.team_api_id  
order by goals  
limit 1
```

Ответ: AC Arles-Avignon, 21 гол

9) Вывести наибольшую среднюю силу удара.

```
select max(t.avg_power)  
  
FROM  
  
(  
select player_api_id,  
avg(shot_power) as avg_power  
FROM player_attributes  
GROUP BY player_api_id  
) as t
```

