

Лабораторная работа №4 «Реализация запросов базы данных»	ФИО	Курляк Д. В.
	Группа	ПрИн – 367
	Преподаватель	Соколов А.А
	Дата сдачи	
	Оценка	

## 1. Запросы из функциональных требований (15)

### 1.1 ## Добавить матч

INSERT INTO demo\_cup.gamesbetweentwoteams values(4,2,4,1,6,7,'2020-09-03');

4	2	2	4	1	6	7	2020-09-03
---	---	---	---	---	---	---	------------

### 1.2 ## Добавить команду

INSERT INTO demo\_cup.teams (Name, StadionId, Win, Draw, Lose) values('Амкал', '11', '3', '2', '3');

11	Амкал	11	3	2	3
----	-------	----	---	---	---

### 1.3 ##Добавить игрока

INSERT INTO demo\_cup.players (FIO, Age) values('Курляк Дмитрий Владимирович','20');

4	Курляк Дмитрий Владимирович	20
---	-----------------------------	----

### 1.4 ##Добавить тренера

INSERT INTO demo\_cup.coachs (FIO, Age) values('Самедов Александр Ахмедович', '39');

11	Самедов Александр Ахмедович	39
----	-----------------------------	----

### 1.5 ##Добавить стадион

INSERT INTO demo\_cup.stadions (Name, CityId, Capacity) values('Карабах', '4', '3500');

12	Карабах	4	3500
----	---------	---	------

### 1.6 ##Добавить тур

INSERT INTO demo\_cup.tournumbers (DateTimeFrom, DateTimeTo) values('2020-10-01', '2020-10-07');

5	2020-10-01	2020-10-07
---	------------	------------

### 1.7 ## Показать результат 1 встречи

SELECT

demo\_cup.statistics.Goals,  
demo\_cup.statistics.PlayerId,  
demo\_cup.players.FIO,  
demo\_cup.teamstoplayers.TeamId

FROM

demo\_cup.statistics  
JOIN  
demo\_cup.teamstoplayers,  
demo\_cup.players

WHERE

demo\_cup.statistics.PlayerId = demo\_cup.teamstoplayers.PlayerId  
AND demo\_cup.statistics.GameId = 1  
AND demo\_cup.statistics.PlayerId = demo\_cup.players.Id;

	Goals	PlayerId	FIO	TeamId
▶	31	1	Криштиану Роналду	1
	20	2	Леонель Месси	1
	1	3	Андрей Прокопенко	2

1.8 ##Показать трансферы турнира

```
SELECT
    demo_cup.players.FIO, demo_cup.teamstoplayers.*
FROM
    demo_cup.players
    JOIN
    demo_cup.teamstoplayers
WHERE
    demo_cup.teamstoplayers.PlayerId = demo_cup.players.id;
```

	FIO	id	PlayerId	TeamId	DateTimeFrom	DateTimeTo	Position
▶	Криштиану Роналду	1	1	1	2018-09-01	2021-09-01	ST
	Леонель Месси	2	2	1	2017-09-01	2020-12-01	RW
	Андрей Прокопенко	3	3	2	2005-09-01	2025-09-10	CM

1.9 ## Вывести состав команды 1

```
SELECT
    demo_cup.players.FIO, demo_cup.teamstoplayers.TeamId
FROM
    demo_cup.players
    JOIN
    demo_cup.teamstoplayers
WHERE
    demo_cup.teamstoplayers.TeamId = 1
    AND demo_cup.players.id = demo_cup.teamstoplayers.PlayerId;
```

	FIO	TeamId
▶	Криштиану Роналду	1
	Леонель Месси	1

1.10 ## Вывести информацию по матчу

```
SELECT
    demo_cup.gamesbetweentwoteams.StadionId,
    RefereeId,
    TourNumberId,
    Team1Id,
    Team2Id,
    DateOfMatch,
    demo_cup.statistics.goals,
    demo_cup.teamstoplayers.TeamId,
    demo_cup.players.FIO
FROM
    demo_cup.gamesbetweentwoteams
    JOIN
    demo_cup.statistics
```

```

JOIN
demo_cup.teamstoplayers
JOIN
demo_cup.players
WHERE
demo_cup.statistics.GameId = 1
AND demo_cup.gamesbetweentwoteams.id = 1
AND statistics.PlayerId = demo_cup.teamstoplayers.PlayerId
AND demo_cup.players.id = statistics.PlayerId;

```

	StadionId	RefereeId	TourNumberId	Team1Id	Team2Id	DateOfMatch	goals	TeamId	FIO
▶	1	1	1	1	2	2020-09-01	1	1	Криштиану Роналду
	1	1	1	1	2	2020-09-01	1	2	Андрей Прокопенко
	1	1	1	1	2	2020-09-01	2	1	Леонель Месси

1.11 ##Вывести статистику игрока в команде

```

SELECT
demo_cup.statistics.*
FROM
demo_cup.statistics
WHERE
Gameid = 1;

```

	id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId
▶	1	1	1	3	0	5	1

1.12 ## Показать итоговую статистику

```

SELECT
demo_cup.statistics.*
FROM
demo_cup.statistics
WHERE
PlayerId = 2;

```

	id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId
▶	2	2	3	2	0	17	2
	4	2	2	0	0	0	1

1.13 ##Показать таблицу турнира

```

SELECT
*
FROM
demo_cup.teams
ORDER BY win DESC , Draw DESC

```

	id	Name	StadionId	Win	Draw	Lose
▶	2	ЦСКА	2	7	0	0
	3	Зенит	3	6	1	0
	6	Крылья-Советов	6	5	1	1
	10	Краснодар	10	5	0	2
	7	Волгарь	7	4	2	1
	4	Сочи	4	3	3	1
	8	Ростов	8	3	3	2
	11	Амкар	11	3	2	3
	5	Рубин	5	2	3	2
	9	Саранск	9	1	2	4
	1	Ротор	1	0	2	5

1.14 ## Пара на след. тур

```
SELECT demo_cup.teams.Name as Pair_Team FROM demo_cup.teams ORDER BY rand() LIMIT 2;
```

	Pair_Team
▶	Краснодар
	Зенит

1.15 ##Показать стадион и соответствующие города

SELECT

demo\_cup.cities.Name, demo\_cup.stadions.Name

FROM

demo\_cup.cities

JOIN

demo\_cup.stadions

WHERE

demo\_cup.stadions.CityId = demo\_cup.cities.id;

	Name	Name
▶	Волгоград	Волгоград-Арена
	Москва	Лужники
	Москва	Москва
	Санкт-Петербург	Газпром-Арена
	Сочи	Фишт
	Сочи	Карабах
	Казань	Казань Арена
	Самара	Самара Арена
	Нижний-Новгород	Нижний Новгород
	Ростов	Ростов Арена
	Мордовия	Мордовия Арена

## 2. INSERTы для своей БД или БД одногруппника из предыдущей лабораторной работы (13)

```
INSERT INTO litvinenko.user values(1, 'Dima', 'cat1020486@gmail.com', 'CoolerPass', '1');
```

```
INSERT INTO litvinenko.user values (2, 'Katya', 'katya@gmail.com', 'Password', '1');
```

```
INSERT INTO litvinenko.user values (3, 'Misha', 'misha@gmail.com', 'Password', '1');
```

```
INSERT INTO litvinenko.form values (1, 1, 1, 1);
```

```
INSERT INTO litvinenko.form values (2, 2, 2, 2);
```

```
INSERT INTO litvinenko.role values (1, 'Dima', 'DaTak');
```

```
INSERT INTO litvinenko.session values(1, 1);
```

```
INSERT INTO litvinenko.session values(2, 2);
```

```
INSERT INTO litvinenko.session values(3, 3);
```

```
INSERT INTO litvinenko.user_has_access_to_form values(1, 1);
```

```
INSERT INTO litvinenko.user_has_access_to_form values(2, 2);
```

```
INSERT INTO litvinenko.avatar values(1,'SomeText',1);
```

```
INSERT INTO litvinenko.avatar values(2,'Text',2);
```

## 3. UPDATE + WHERE (8)

3.1 update demo\_cup.stadions set capacity = 35000 where Name = 'Карабах';

12	Карабах	4	35000
----	---------	---	-------

3.2

update demo\_cup.statistics set goals = 3 where PlayerId = 3;

	id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId
	1	1	1	3	0	5	1
	2	2	3	2	0	17	2
	3	3	3	44	1	2	1

3.3

update demo\_cup.referees set Age = 49 where id = 3;

3	Юрий Валерьевич Баскаков	49	1996-09-01
---	--------------------------	----	------------

3.4

update demo\_cup.stadions set Capacity = 9000 where id = 11;

11	Москва	2	9000
----	--------	---	------

3.5

update demo\_cup.players set Age = 31 where id = 2;

2	Леонель Месси	31
---	---------------	----

3.6

update demo\_cup.teams set Win = 1 where Name = 'Ротор';

	id	Name	StadionId	Win	Draw	Lose
▶	1	Ротор	1	1	2	5

3.7

update demo\_cup.coachs set Age = 47 where id = 1;

	id	FIO	Age
▶	1	Леонид Викторович Слуцкий	47

3.8

update demo\_cup.stadions set CityId = 2 where id = 12;

12	Карабах	2	35000
----	---------	---	-------

## 4. DELETE с WHERE (5 шт)

4.1 DELETE FROM demo\_cup.stadions WHERE NAME = 'Карабах';

243 11:59:51 DELETE FROM demo\_cup.stadions WHERE NAME = 'Карабах' 1 row(s) affected

4.2 DELETE FROM demo\_cup.stadions WHERE id = 11;

246 12:15:19 DELETE FROM demo\_cup.stadions WHERE id = 11 1 row(s) affected

4.3

DELETE FROM demo\_cup.referees WHERE id = 4;

252 12:35:35 DELETE FROM demo\_cup.referees WHERE id = 4 1 row(s) affected

4.4

DELETE FROM demo\_cup.coachs WHERE id = 11;

253 12:35:35 DELETE FROM demo\_cup.coachs WHERE id = 11

4.5

DELETE FROM demo\_cup.tournumbers WHERE Number = 5;

254 12:35:35 DELETE FROM demo\_cup.tournumbers WHERE Number = 5 1 row(s) affected

## 5. SELECT, DISTINCT, WHERE, AND/OR/NOT, IN, BETWEEN, IS NULL, AS (20)

5.1 SELECT \* from demo\_cup.players where AGE < 30;

	id	FIO	Age
▶	3	Андрей Прокопенко	18
	4	Курляк Дмитрий Владимирович	20

5.2 SELECT FIO from demo\_cup.players;

	FIO
▶	Криштиану Роналду
	Леонель Месси
	Андрей Прокопенко
	Курляк Дмитрий Владимирович

5.3 SELECT \* from demo\_cup.teams where WIN > 3;

	id	Name	StadionId	Win	Draw	Lose
	2	ЦСКА	2	7	0	0
	3	Зенит	3	6	1	0
	6	Крылья-Советов	6	5	1	1
	7	Волгарь	7	4	2	1
	10	Краснодар	10	5	0	2

5.4 SELECT \* from demo\_cup.statistics where Goals > 2;

	id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId
	2	2	3	2	0	17	2
	3	3	3	44	1	2	1

5.5 SELECT \* from demo\_cup.coachs where AGE between 50 and 60;

	id	FIO	Age
▶	3	Балахнин Сергей Николаевич	56
	4	Бердыев Курбан Бекиевич	50
	5	Бородюк Александр Генрихович	55
	10	Черчесов Станислав Саламович	57

5.6 SELECT Name as 'ФИО' from demo\_cup.referees;

	ФИО
▶	Николаев Алексей Валерьевич
	Кирилл Николаевич Л Кирилл Н
	Юрий Валерьевич Баскаков
	Иван Иванович Никикуч

5.7 SELECT \* from demo\_cup.teamstoplayers where TeamId is not null;

	id	PlayerId	TeamId	DateTimeFrom	DateTimeTo	Position
▶	1	1	1	2018-09-01	2021-09-01	ST
	2	2	1	2017-09-01	2020-12-01	RW
	3	3	2	2005-09-01	2025-09-10	CM
	4	4	2	2017-09-01	2020-09-11	GP

5.8 SELECT Name as "Название" from demo\_cup.cities;

	Название
▶	Волгоград
	Москва
	Санкт-Петербург
	Сочи
	Казань
	Самара
	Нижний-Новгород
	Ростов
	Мордовия
	Краснодар

5.9 SELECT FIO, AGE FROM demo\_cup.players where age <> 18 and age < 21

	FIO	AGE
▶	Курляк Дмитрий Владимирович	20

5.10 SELECT sum(goals) as "Забитых голов игроком 1" from demo\_cup.statistics where PlayerId = 1;

	Забитых голов игроком 1
▶	3

5.11 SELECT distinct age as "Различные возраста" from demo\_cup.coachs;

	Различные возраста
▶	47
	48
	56
	50
	55
	44
	62
	57

5.12 SELECT Name from demo\_cup.stadions where CityId IN (2,3);

	Name
▶	Лужники
	Анкал
	Газпром-Арена

5.13 SELECT FIO, AGE from demo\_cup.players where Age = 20 or Age = 21 or Age = 18;

	FIO	AGE
▶	Андрей Прокопенко	18
	Курляк Дмитрий Владимирович	20

5.14 SELECT tournumbers.DateTimeFrom as "Дата начала тура",  
tournumbers.DateTimeFrom as "Дата конца тура" from demo\_cup.tournumbers;

	Дата начала тура	Дата конца тура
▶	2020-09-01	2020-09-01
	2020-09-07	2020-09-07
	2020-09-17	2020-09-17
	2020-10-01	2020-10-01

5.15 SELECT PlayerId from demo\_cup.teamstoplayers where TeamId is NULL;

	Свободные игроки
▶	5

5.16 SELECT sum(goals) as "Общее количество забитых голов" from demo\_cup.statistics;

	Общее количество забитых голов
▶	11

5.17 SELECT distinct age as "Различные возраста" from demo\_cup.referees;

	Различные возраста
▶	43
	36
	49
	48

5.18 SELECT PlayerId as "Занятые игроки" from demo\_cup.teamstoplayers where TeamId is NOT NULL;

	Занятые игроки
▶	1
	2
	3
	4

5.19 SELECT COUNT(\*) from demo\_cup.tournumbers;

	COUNT(*)
▶	4

5.20 SELECT COUNT(\*) as "Количество стадионов Москвы" from demo\_cup.stadions where CityId = 2;

	Количество стадионов Москвы
▶	2

## 6. LIKE (5)

6.1 SELECT FIO from demo\_cup.players where FIO like '%Дмитрий%';

	FIO
▶	Курляк Дмитрий Владимирович
	Иванов Дмитрий Иванович



6.2 SELECT FIO from demo\_cup.coachs where FIO like '%Серей%';

FIO
Андреев Сергей Васильевич
Балахнин Сергей Николаевич

6.3 SELECT Name from demo\_cup.cities where Name like 'С%';

Name
Санкт-Петербург
Сочи
Самара

6.4 SELECT Name from demo\_cup.teams where Name like '%ь%';

Name
Волгарь
Крылья-Советов

6.5 SELECT FIO from demo\_cup.players where FIO like '% % %';

FIO
Курляк Дмитрий Владимирович
Иванов Дмитрий Иванович

## 7. COUNT, MAX, MIN, SUM, AVG (10 шт)

7.1 SELECT COUNT(\*) from demo\_cup.tournumbers;

COUNT(*)
4

7.2 SELECT COUNT(\*) as "Количество стадионов Москвы" from demo\_cup.stadions where CityId = 2;

Количество стадионов Москвы
2

7.3 SELECT AVG(AGE) from demo\_cup.players;

AVG(AGE)
25.0000

7.4 SELECT AVG(AGE) from demo\_cup.coachs;

AVG(AGE)
51.5000

7.5 SELECT AVG(AGE) from demo\_cup.referees;

AVG(AGE)
44.0000

7.6 SELECT sum(goals) as "Забитых голов игроком 1" from demo\_cup.statistics where PlayerId = 1;

Забитых голов игроком 1
3

7.7 SELECT sum(goals) as "Общее количество забитых голов" from demo\_cup.statistics;

Общее количество забитых голов
11

7.8 SELECT MAX(Goals) from demo\_cup.statistics;

MAX(Goals)
3

7.9 SELECT MAX(Age) from demo\_cup.coachs;

	MAX(Age)
▶	62

7.10 SELECT MIN(Age) from demo\_cup.players;

	MIN(Age)
▶	18

## 8. GROUP BY, HAVING (5)

8.1 SELECT

demo\_cup.statistics.goals,

Count(PlayerId)

FROM

demo\_cup.statistics

JOIN

demo\_cup.players

WHERE

demo\_cup.players.id = demo\_cup.statistics.PlayerId

GROUP BY goals;

	goals	Count(PlayerId)
▶	1	1
	3	2
	2	2

8.2 SELECT

demo\_cup.cities.Name,

COUNT(demo\_cup.stadions.CityId) as "Количество стадионов"

FROM

demo\_cup.stadions

JOIN

demo\_cup.cities

WHERE

demo\_cup.stadions.CityId = demo\_cup.cities.id

GROUP BY demo\_cup.cities.Name;

	Name	Количество стадионов
▶	Волгоград	1
	Москва	2
	Санкт-Петербург	1
	Сочи	1
	Казань	1
	Самара	1

### 8.3 SELECT

min(demo\_cup.players.age),

max(demo\_cup.players.age)

FROM

demo\_cup.players

HAVING AVG(age) > 20;

	min(demo_cup.players.age)	max(demo_cup.players.age)
▶	18	35

### 8.4##Список бомбардиров

SELECT

demo\_cup.players.FIO, sum(demo\_cup.statistics.goals)

FROM

demo\_cup.statistics

JOIN

demo\_cup.players

WHERE

demo\_Cup.players.id = demo\_cup.statistics.PlayerId

GROUP BY demo\_cup.statistics.PlayerId;

	FIO	goals
▶	Криштиану Роналду	1
	Леонель Месси	3
	Андрей Прокопенко	3

## 8.5 SELECT

```
demo_cup.gamesbetweentwoteams.TourNumberId,  
  
COUNT(TourNumberId) as "Количество матчей сыгранных в туре"  
  
FROM  
  
demo_cup.gamesbetweentwoteams  
  
GROUP BY TourNumberId;
```

	TourNumberId	Количество матчей сыгранных в туре
▶	1	4

## 9. ORDER BY, ASC|DESC (5)

### 9.1 SELECT

```
*  
FROM  
demo_cup.teams  
ORDER BY win DESC , Draw DESC
```

	id	Name	StadionId	Win	Draw	Lose
▶	2	ЦСКА	2	7	0	0
	3	Зенит	3	6	1	0
	6	Крылья-Советов	6	5	1	1
	10	Краснодар	10	5	0	2
	7	Волгарь	7	4	2	1
	4	Сочи	4	3	3	1
	8	Ростов	8	3	3	2
	11	Амкар	11	3	2	3
	5	Рубин	5	2	3	2
	9	Саранск	9	1	2	4
	1	Ротор	1	0	2	5

### 9.2 SELECT

```
demo_cup.teams.Name as Pair_Team  
FROM  
demo_cup.teams  
ORDER BY rand() LIMIT 2;
```

	Pair_Team
▶	Краснодар
	Зенит

### 9.3

```
SELECT  
demo_cup.players.FIO, AGE  
from  
demo_cup.players  
ORDER BY demo_cup.players.age;
```

FIO	AGI
Андрей Прокопенко	18
Курляк Дмитрий Владимирович	20
Иванов Дмитрий Иванович	21
Леонель Месси	31
Криштиану Роналду	35

9.4

```
SELECT
    demo_cup.statistics.goals, COUNT(PlayerId)
FROM
    demo_cup.statistics
    JOIN
    demo_cup.players
WHERE
    demo_cup.players.id = demo_cup.statistics.PlayerId
GROUP BY goals
ORDER BY GOALS;
```

goals	COUNT(PlayerId)
1	1
2	2
3	2

9.5

```
SELECT
    demo_cup.cities.Name, demo_cup.stadions.Name
FROM
    demo_cup.cities
    JOIN
    demo_cup.stadions
WHERE
    demo_cup.stadions.CityId = demo_cup.cities.id
ORDER BY demo_cup.cities.NAME;
```

	Name	Name
►	Волгоград	Волгоград-Арена
	Казань	Казань Арена
	Краснодар	Краснодар
	Мордовия	Мордовия Арена
	Москва	Лужники
	Москва	Амкал
	Нижний-Новгород	Нижний Новгород
	Ростов	Ростов Арена

## 10. Вложенные SELECTы (2 шт)

10.1

SELECT

FIO

FROM

demo\_cup.players

WHERE

AGE = (select MIN(AGE) FROM demo\_cup.players);

	FIO
▶	Андрей Прокопенко

10.2

SELECT

Name

FROM

demo\_cup.referees

WHERE

YearsOfWork = (SELECT

MIN(demo\_cup.referees.YearsOfWork)

FROM

demo\_cup.referees);

	Name
▶	Юрий Валерьевич Баскаков

## 11. INSERT SELECT (1шт)

11.1 INSERT INTO

players

SELECT \*

FROM coachs

WHERE age < 40;

id	FIO	Age
1	Криштиану Роналду	35
2	Леонель Месси	31
3	Андрей Прокопенко	18
4	Курляк Дмитрий Владимирович	20
5	Иванов Дмитрий Иванович	21
11	Самедов Александр Александрович	39

## 12.UNION (ALL), EXCEPT, INTERCEPT какой-то из них на выбор (2-3 шт.)

SELECT players.FIO, AGE

From players

UNION

SELECT coaches.FIO, AGE

From coaches

order by AGE;

	FIO	AGE
▶	Андрей Прокопенко	18
	Курляк Дмитрий Владимирович	20
	Иванов Дмитрий Иванович	21
	Леонель Месси	31
	Криштиану Роналду	35
	Самедов Александр Александрович	39
	Гаджиев Гаджи Муслимович	44
	Леонид Викторович Слуцкий	47
	Андреев Сергей Васильевич	48
	Газзаев Валерий Георгиевич	48

## 13.JOIN (20 шт.): INNER, OUTER (LEFT, RIGHT, FULL), CROSS, NATURAL

### 13.1 SELECT

demo\_cup.statistics.Goals,  
demo\_cup.statistics.PlayerId,  
demo\_cup.players.FIO,  
demo\_cup.teamstoplayers.TeamId

FROM

demo\_cup.statistics

JOIN

demo\_cup.teamstoplayers,

demo\_cup.players

WHERE

demo\_cup.statistics.PlayerId = demo\_cup.teamstoplayers.PlayerId  
AND demo\_cup.statistics.GameId = 1  
AND demo\_cup.statistics.PlayerId = demo\_cup.players.Id;

	Goals	PlayerId	FIO	TeamId
▶	31	1	Криштиану Роналду	1
	20	2	Леонель Месси	1
	1	3	Андрей Прокопенко	2

13.2

SELECT

\*

FROM

demo\_cup.players

LEFT JOIN

demo\_cup.statistics ON demo\_cup.players.id = demo\_cup.statistics.PlayerId

GROUP BY demo\_cup.players.FIO;

	id	FIO	Age	id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId
▶	1	Криштиану Роналду	35	1	1	1	3	0	5	1
	2	Леонель Месси	31	2	2	3	2	0	17	2
	3	Андрей Прокопенко	18	3	3	3	44	1	2	1
	4	Курляк Дмитрий Владимирович	20	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	5	Иванов Дмитрий Иванович	21	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	11	Самедов Александр Александрович	39	NULL	NULL	NULL	NULL	NULL	NULL	NULL

13.3

SELECT

\*

FROM

demo\_cup.statistics

RIGHT JOIN

demo\_cup.players ON demo\_cup.statistics.PlayerId = demo\_cup.players.id

GROUP BY demo\_cup.players.FIO;

id	PlayerId	Goals	YellowCard	RedCard	Assist	GameId	id	FIO	Age
1	1	1	3	0	5	1	1	Криштиану Роналду	35
2	2	3	2	0	17	2	2	Леонель Месси	31
3	3	3	44	1	2	1	3	Андрей Прокопенко	18
NULL	NULL	NULL	NULL	NULL	NULL	NULL	4	Курляк Дмитрий Владимирович	20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	5	Иванов Дмитрий Иванович	21
NULL	NULL	NULL	NULL	NULL	NULL	NULL	11	Самедов Александр Александрович	39



13.4

SELECT \*

FROM players LEFT JOIN coaches

ON players.id = coaches.id

UNION

SELECT \*

FROM players RIGHT JOIN coaches

ON players.id = coaches.id

id	FIO	Age	id	FIO	Age
1	Криштиану Роналду	35	1	Леонид Викторович Слуцкий	47
2	Леонель Месси	31	2	Андреев Сергей Васильевич	48
3	Андрей Прокопенко	18	3	Балахнин Сергей Николаевич	56
4	Курляк Дмитрий Владимирович	20	4	Бердыев Курбан Бекиевич	50
5	Иванов Дмитрий Иванович	21	5	Бородюк Александр Генрихович	55
6	Супер Игрок Игроков	35	6	Гаджиев Гаджи Муслимович	44
NULL	NULL	NULL	7	Газзеев Юрий Фарзунович	62
NULL	NULL	NULL	8	Газзаев Валерий Георгиевич	48
NULL	NULL	NULL	9	Семин Юрий Павлович	48
NULL	NULL	NULL	10	Черчесов Станислав Саламович	57

13.6

SELECT

demo\_cup.players.FIO, demo\_cup.teamstoplayers.\*

FROM

demo\_cup.players

JOIN

demo\_cup.teamstoplayers

WHERE

demo\_cup.teamstoplayers.PlayerId = demo\_cup.players.id;

	FIO	id	PlayerId	TeamId	DateTimeFrom	DateTimeTo	Position
▶	Криштиану Роналду	1	1	1	2018-09-01	2021-09-01	ST
	Леонель Месси	2	2	1	2017-09-01	2020-12-01	RW
	Андрей Прокопенко	3	3	2	2005-09-01	2025-09-10	CM

13.7

SELECT

demo\_cup.players.FIO, demo\_cup.teamstoplayers.TeamId

FROM

demo\_cup.players

JOIN

demo\_cup.teamstoplayers

WHERE

demo\_cup.teamstoplayers.TeamId = 1

AND demo\_cup.players.id = demo\_cup.teamstoplayers.PlayerId;

	FIO	TeamId
►	Криштиану Роналду	1
	Леонель Месси	1

13.8

SELECT

demo\_cup.gamesbetweentwoteams.StadionId,  
RefereeId,  
TourNumberId,  
Team1Id,  
Team2Id,  
DateOfMatch,  
demo\_cup.statistics.goals,  
demo\_cup.teamstoplayers.TeamId,  
demo\_cup.players.FIO

FROM

demo\_cup.gamesbetweentwoteams  
JOIN  
demo\_cup.statistics  
JOIN  
demo\_cup.teamstoplayers  
JOIN  
demo\_cup.players

WHERE

demo\_cup.statistics.GameId = 1  
AND demo\_cup.gamesbetweentwoteams.id = 1  
AND statistics.PlayerId = demo\_cup.teamstoplayers.PlayerId  
AND demo\_cup.players.id = statistics.PlayerId;

	StadionId	RefereeId	TourNumberId	Team1Id	Team2Id	DateOfMatch	goals	TeamId	FIO
►	1	1	1	1	2	2020-09-01	1	1	Криштиану Роналду
	1	1	1	1	2	2020-09-01	1	2	Андрей Прокопенко
	1	1	1	1	2	2020-09-01	2	1	Леонель Месси

13.9

SELECT

demo\_cup.statistics.goals,  
  
Count(PlayerId)

FROM

demo\_cup.statistics

JOIN

demo\_cup.players

WHERE

demo\_cup.players.id = demo\_cup.statistics.PlayerId

GROUP BY goals;

	goals	Count(PlayerId)
▶	1	1
	3	2
	2	2

13.10

SELECT

demo\_cup.cities.Name, demo\_cup.stadions.Name

FROM

demo\_cup.cities

JOIN

demo\_cup.stadions

WHERE

demo\_cup.stadions.CityId = demo\_cup.cities.id;

	Name	Name
▶	Волгоград	Волгоград-Арена
	Москва	Лужники
	Москва	Москва
	Санкт-Петербург	Газпром-Арена
	Сочи	Фишт
	Сочи	Карабах
	Казань	Казань Арена
	Самара	Самара Арена
	Нижний-Новгород	Нижний Новгород
	Ростов	Ростов Арена
	Мордовия	Мордовия Арена

## 14.LIMIT (3-5 шт.+)

14.1 SELECT players.FIO,

sum(statistics.goals)

from players

join

statistics

where

goals > 0

and

players.id = statistics.PlayerId

GROUP BY statistics.PlayerId

LIMIT 2;

FIO	sum(statistics.goals)
Криштиану Роналду	3
Леонель Месси	5

14.2 SELECT FIO from demo\_cup.players where FIO like '% % %' limit 3;

FIO
Курляк Дмитрий Владимирович
Иванов Дмитрий Иванович
Самедов Александр Александрович

14.3

SELECT

demo\_cup.statistics.goals, COUNT(PlayerId)

FROM

demo\_cup.statistics

JOIN

demo\_cup.players

WHERE

demo\_cup.players.id = demo\_cup.statistics.PlayerId

GROUP BY goals

ORDER BY GOALS

limit 1;

goals	COUNT(PlayerId)
1	1

