

Модуль 2

SELECT — выбор колонок

Получение всех строк

1	2	3	4
select	*	from	имя_таблицы

Ограничение числа строк

В Microsoft SQL Server

1	2	3	4	5
select	top N	*	from	имя_таблицы

В MySQL, MariaDB, PostgreSQL и других

1	2	3	4	5
select	*	from	имя_таблицы	limit N

Получение нескольких колонок

1	2	3	4
select	col_name1, col_name2	from	имя_таблицы



Ограничение числа строк

В Microsoft SQL Server

1	2	3	4	5
select	top N	col_name1, col_name2	from	имя_таблицы

В MySQL, MariaDB, PostgreSQL и других

1	2	3	4	5
select	col_name1, col_name2	from	имя_таблицы	limit N

Получение всех колонок

1	2	3	4
select	*	from	skill_cities

=

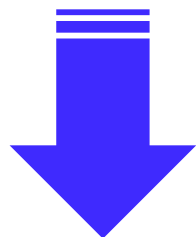
1	2	3	4
select	city_id, city_name, country_id, population, is_capital	from	skill_cities

city_id	city_name	country_id	population	is_capital
1	Buenos Aires	1	3054000	1
2	Cordoba	1	1519000	0
3	Rosario	1	1429000	0
4	Mendoza	1	1082000	0
5	La Plata	1	836000	0

Математические вычисления

```
select country_name, population,  
percent_of_world_pop from skill_countries
```

country_name	population	percent_of_world_pop
Argentina	44938712	0.578
Armenia	2957500	0.038
Australia	25676652	0.33
Belarus	9408400	0.121
Brazil	211385256	2.72



```
select population*100/percent_of_world_pop approximate_world_population  
from skill_countries
```

approximate_world_population
7774863667.82007
7782894736.84211
7780803636.36364
7775537190.08264
7771516764.70588

Математические функции

Transact-SQL:

<https://docs.microsoft.com/ru-ru/sql/t-sql/functions/mathematical-functions-transact-sql?view=sql-server-ver15>

MySQL:

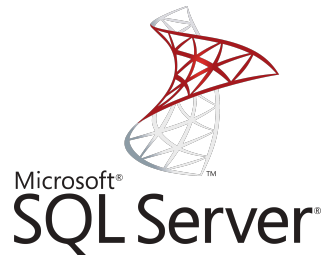
http://www.mysql.ru/docs/man/Mathematical_functions.html

PostgreSQL:

<https://postgrespro.ru/docs/postgresql/9.6/functions-math>

Сложение строк

```
select first_name+' '+last_name full_name from skill_managers
```



full_name
Forbes Sincere
Robinson Giovanny
Graham Averie
Peters Abbie



full_name
0
0
0



```
ERROR:  operator does not exist: character varying + unknown
LINE 1: select first_name+' '+last_name full_name from skill_manager...
                        ^
```

```
HINT:  No operator matches the given name and argument types. You might need to add explicit type casts.
```

Сложение строк: функция concat

```
select concat(first_name,' ',last_name) full_name from skill_managers
```



full_name
Forbes Sincere
Robinson Giovanni
Graham Averie
Peters Abbie



full_name
Forbes Sincere
Robinson Giovanni
Graham Averie
Peters Abbie



full_name
Forbes Sincere
Robinson Giovanni
Graham Averie
Peters Abbie