ОПЕРАТОР SELECT

ОПЕРАТОР SELECT

SELECT * FROM superheroes

ТАБЛИЦА СУПЕРГЕРОЕВ

id	name	align	eye	hair	gender	appearances	year	universe
1	Spider-Man (Peter Parker)	Good Characters	Hazel Eyes	Brown Hair	Male Characters	4043	1962	marvel
2	Captain America (Steven Rogers)	Good Characters	Blue Eyes	White Hair	Male Characters	3360	1941	marvel
4854	Batman (Bruce Wayne)	Good Characters	Blue Eyes	Black Hair	Male Characters	3093	1939	dc
3	Wolverine (James \"Logan\" Howlett)	Neutral Characters	Blue Eyes	Black Hair	Male Characters	3061	1974	marvel
4	Iron Man (Anthony \"Tony\" Stark)	Good Characters	Blue Eyes	Black Hair	Male Characters	2961	1963	marvel
4855	Superman (Clark Kent)	Good Characters	Blue Eyes	Black Hair	Male Characters	2496	1986	dc
5	Thor (Thor Odinson)	Good Characters	Blue Eyes	Blond Hair	Male Characters	2258	1950	marvel
6	Benjamin Grimm (Earth-616)	Good Characters	Blue Eyes	No Hair	Male Characters	2255	1961	marvel
			...					

ОПЕРАТОР SELECT

SELECT * FROM superheroes

РЕЗУЛЬТАТ ВЫПОЛНЕНИЯ SELECT

id	name	align	eye	hair	gender	appearances	year	universe
1	Spider-Man (Peter Parker)	Good Characters	Hazel Eyes	Brown Hair	Male Characters	4043	1962	marvel
2	Captain America (Steven Rogers)	Good Characters	Blue Eyes	White Hair	Male Characters	3360	1941	marvel
3	Wolverine (James \"Logan\" Howlett)	Neutral Characters	Blue Eyes	Black Hair	Male Characters	3061	1974	marvel
4	Iron Man (Anthony \"Tony\" Stark)	Good Characters	Blue Eyes	Black Hair	Male Characters	2961	1963	marvel
5	Thor (Thor Odinson)	Good Characters	Blue Eyes	Blond Hair	Male Characters	2258	1950	marvel
6	Benjamin Grimm (Earth-616)	Good Characters	Blue Eyes	No Hair	Male Characters	2255	1961	marvel
7	Reed Richards (Earth-616)	Good Characters	Brown Eyes	Brown Hair	Male Characters	2072	1961	marvel
8	Hulk (Robert Bruce Banner)	Good Characters	Brown Eyes	Brown Hair	Male Characters	2017	1962	marvel

...

```
SELECT name, appearances
FROM superheroes
```

ВЫБОР СТОЛБЦОВ В SELECT

name	appearances
Spider-Man (Peter Parker)	4043
Captain America (Steven Rogers)	3360
Wolverine (James \"Logan\" Howlett)	3061
Iron Man (Anthony \"Tony\" Stark)	2961
Thor (Thor Odinson)	2258
Benjamin Grimm (Earth-616)	2255
Reed Richards (Earth-616)	2072
Hulk (Robert Bruce Banner)	2017
...	

ВЫБОР СТОЛБЦОВ В SELECT

```
SQL Shell (psql)                                                    —    □    ×

postgres=# SELECT name, appearances FROM superheroes;
                        name                        | appearances
----------------------------------------------------+-------------
 Spider-Man (Peter Parker)                          |        4043
 Captain America (Steven Rogers)                    |        3360
 Wolverine (James \"Logan\" Howlett)                |        3061
 Iron Man (Anthony \"Tony\" Stark)                  |        2961
 Thor (Thor Odinson)                                |        2258
 Benjamin Grimm (Earth-616)                         |        2255
 Reed Richards (Earth-616)                          |        2072
 Hulk (Robert Bruce Banner)                         |        2017
 Scott Summers (Earth-616)                          |        1955
 Jonathan Storm (Earth-616)                         |        1934
 Henry McCoy (Earth-616)                            |        1825
 Susan Storm (Earth-616)                            |        1713
 Ororo Munroe (Earth-616)                           |        1512
 Clinton Barton (Earth-616)                         |        1394
 Matthew Murdock (Earth-616)                        |        1338
 Stephen Strange (Earth-616)                        |        1307
 Mary Jane Watson (Earth-616)                       |        1304
 John Jonah Jameson (Earth-616)                     |        1266
 Robert Drake (Earth-616)                           |        1265
 Henry Pym (Earth-616)                              |        1237
 Charles Xavier (Earth-616)                         |        1233
 Warren Worthington III (Earth-616)                 |        1230
 Piotr Rasputin (Earth-616)                         |        1162
 Wanda Maximoff (Earth-616)                         |        1161
 Nicholas Fury (Earth-616)                          |        1137
```

ПСЕВДОНИМЫ СТОЛБЦОВ В SELECT

SELECT name AS hero_name,
        appearances
FROM superheroes

ПСЕВДОНИМЫ СТОЛБЦОВ В SELECT

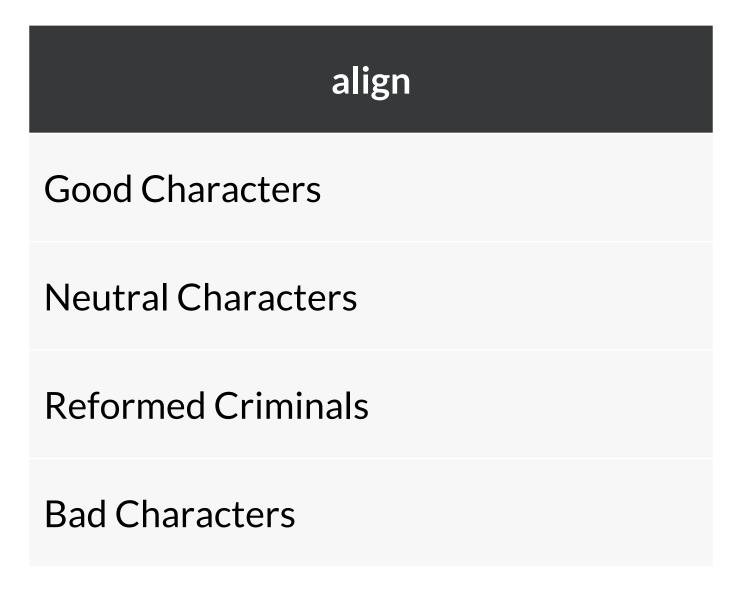| hero_name	appearances
Spider-Man (Peter Parker)	4043
Captain America (Steven Rogers)	3360
Wolverine (James \"Logan\" Howlett)	3061
Iron Man (Anthony \"Tony\" Stark)	2961
Thor (Thor Odinson)	2258
Benjamin Grimm (Earth-616)	2255
Reed Richards (Earth-616)	2072
Hulk (Robert Bruce Banner)	2017
...	

ПСЕВДОНИМЫ СТОЛБЦОВ В SELECT

SELECT name hero_name,
            appearances
FROM superheroes

ВЫБОР УНИКАЛЬНЫХ ЗНАЧЕНИЕ СТОЛБЦОВ В SELECT

```sql
SELECT DISTINCT(align)
FROM superheroes
```

ВЫБОР УНИКАЛЬНЫХ ЗНАЧЕНИЕ СТОЛБЦОВ В SELECT

```
SELECT DISTINCT(align)
FROM superheroes
```

align
Good Characters
Neutral Characters
Reformed Criminals
Bad Characters

ВЫБОР УНИКАЛЬНЫХ ЗНАЧЕНИЕ СТОЛБЦОВ В SELECT

```
SELECT DISTINCT(eye)
FROM superheroes
```

eye
Black Eyeballs
One Eye
Purple Eyes
Orange Eyes
... (24 строки)

ОГРАНИЧЕНИЕ КОЛИЧЕСТВА ИЗВЛЕКАЕМЫХ СТРОК

```sql
SELECT DISTINCT(hair)
FROM superheroes
LIMIT 10
```

ОГРАНИЧЕНИЕ КОЛИЧЕСТВА ИЗВЛЕКАЕМЫХ СТРОК

hair
Strawberry Blond Hair
Violet Hair
Green Hair
Bald
Silver Hair
Light Brown Hair
Red Hair
White Hair
Purple Hair
Reddish Blond Hair

SQL - ДЕКЛАРАТИВНЫЙ ЯЗЫК

```sql
SELECT DISTINCT(align)
FROM superheroes
```

align
Good Characters
Neutral Characters
Reformed Criminals
Bad Characters

ИТОГИ

- **Оператор** SELECT

  Извлечение данных из таблиц реляционной базы

- **Ключевое слово** FROM

  Источник данных

- **Ключевое слово** DISTINCT

  Выбор уникальных значений в столбцах

- **Ключевое слово** LIMIT

  Ограничение количества извлекаемых строк

- **Ключевое слово** AS

  Создание псевдонима