СОРТИРОВКА В SQL: ORDER BY

СОРТИРОВКА ДАННЫХ В SELECT

SELECT *
FROM superheroes
ORDER BY year

СОРТИРОВКА ДАННЫХ В SELECT

id	name	align	eye	hair	gender	appearances	year	universe
5352	Arthur Pendragon (New Earth)	Good Characters	Brown Eyes	Brown Hair	Male Characters	41	1936	dc
5959	Lady of the Lake (New Earth)	Good Characters	Blue Eyes	Blue Hair	Female Characters	13	1936	dc
5094	Merlin (New Earth)	Neutral Characters	Black Eyes	White Hair	Male Characters	92	1936	dc
5143	Cyril Saunders (New Earth)	Good Characters	Hazel Eyes	White Hair	Male Characters	79	1937	dc
4941	Samuel Bradley (New Earth)	Good Characters	Grey Eyes	Grey Hair	Male Characters	213	1937	dc
6087	Rose Psychic (New Earth)	Good Characters	Black Eyes	Black Hair	Female Characters	11	1937	dc
4913	John Zatara (New Earth)	Good Characters	Blue Eyes	Black Hair	Male Characters	256	1938	dc
4868	Lois Lane (New Earth)	Good Characters	Blue Eyes	Black Hair	Female Characters	934	1938	dc

...

ПОРЯДОК СОРТИРОВКИ

❯ **Порядок сортировки в ORDER BY**

ASC (ascending) – сортировка по возрастанию

DESC (descending) – сортировка по убыванию

```
SELECT *
FROM superheroes
ORDER BY appearances DESC
```

СОРТИРОВКА ДАННЫХ В ПОРЯДКЕ УБЫВАНИЯ

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

...

СОРТИРОВКА И ФИЛЬТРЫ В SELECT

```sql
SELECT *
FROM superheroes
WHERE align = 'Bad Characters'
ORDER BY appearances DESC
```

СОРТИРОВКА И ФИЛЬТРАЦИЯ ДАННЫХ

id	name	align	eye	hair	gender	appearances	year	universe
42	Victor von Doom (Earth-616)	Bad Characters	Brown Eyes	Brown Hair	Male Characters	721	1962	marvel
46	Norman Osborn (Earth-616)	Bad Characters	Blue Eyes	Auburn Hair	Male Characters	692	692	marvel
4880	Joker (New Earth)	Bad Characters	Green Eyes	Green Hair	Male Characters	517	1940	dc
68	Wilson Fisk (Earth-616)	Bad Characters	Blue Eyes	Bald	Male Characters	503	1967	marvel
90	Sabretooth (Victor Creed)	Bad Characters	Amber Eyes	Blond Hair	Male Characters	382	1977	marvel
92	Johann Shmidt (Earth-616)	Bad Characters	Blue Eyes	Blond Hair	Male Characters	376	1941	marvel
99	Raven Darkholme (Earth-616)	Bad Characters	Yellow Eyes	Red Hair	Female Characters	371	1978	marvel
117	MacDonald Gargan (Earth-616)	Bad Characters	Brown Eyes	Bald	Male Characters	317	1964	marvel

...

СОРТИРОВКА И ОГРАНИЧЕНИЕ КОЛИЧЕСТВА СТРОК

```sql
SELECT *
FROM superheroes
WHERE align = 'Bad Characters'
  AND gender = 'Female Characters'
ORDER BY appearances DESC
LIMIT 5
```

СОРТИРОВКА И ОГРАНИЧЕНИЕ КОЛИЧЕСТВА СТРОК

id	name	align	eye	hair	gender	appearances	year	universe
99	Raven Darkholme (Earth-616)	Bad Characters	Yellow Eyes	Red Hair	Female Characters	371	1978	marvel
157	Amora (Earth-616)	Bad Characters	Green Eyes	Blond Hair	Female Characters	247	1964	marvel
4956	Talia al Ghul (New Earth)	Bad Characters	Brown Eyes	Brown Hair	Female Characters	177	1971	dc
221	Ophelia Sarkissian (Earth-616)	Bad Characters	Green Eyes	Black Hair	Female Characters	175	1969	marvel
229	Hela (Earth-616)	Bad Characters	Green Eyes	Black Hair	Female Characters	170	1964	marvel

СОРТИРОВКА ПО НЕСКОЛЬКИМ СТОЛБЦАМ

```
SELECT *
FROM superheroes
ORDER BY year, appearances
```

СОРТИРОВКА ПО НЕСКОЛЬКИМ СТОЛБЦАМ

id	name	align	eye	hair	gender	appearances	year	universe
5959	Lady of the Lake (New Earth)	Good Characters	Blue Eyes	Blue Hair	Female Characters	13	1936	dc
5352	Arthur Pendragon (New Earth)	Good Characters	Brown Eyes	Brown Hair	Male Characters	41	1936	dc
5094	Merlin (New Earth)	Neutral Characters	Black Eyes	White Hair	Male Characters	92	1936	dc
6087	Rose Psychic (New Earth)	Good Characters	Black Eyes	Black Hair	Female Characters	11	1937	dc
5143	Cyril Saunders (New Earth)	Good Characters	Hazel Eyes	White Hair	Male Characters	79	1937	dc
4941	Samuel Bradley (New Earth)	Good Characters	Grey Eyes	Grey Hair	Male Characters	213	1937	dc
5069	Wing How (New Earth)	Good Characters	Brown Eyes	Black Hair	Male Characters	103	1938	dc
4998	Lee Travis (New Earth)	Good Characters	Black Eyes	Black Hair	Male Characters	139	1938	dc
			...					

SQL КАК АНГЛИЙСКИЙ

```sql
SELECT *
FROM superheroes
WHERE align = 'Bad Characters'
 AND gender = 'Female Characters'
ORDER BY appearances DESC
LIMIT 5
```

ИТОГИ

⊙ Ключевое слово ORDER BY

Сортировка данных в SELECT

Возможна сортировка по одному или нескольким столбцам

⊙ Порядок сортировки

ASC (ascending) – сортировка по возрастанию

DESC (descending) – сортировка по убыванию

⊙ Совместное использование ключевых слов в SELECT

WHERE, ORDER BY, LIMIT

⊙ Синтаксис SQL похож на английский язык

SEQUEL (Structured English Query Language)