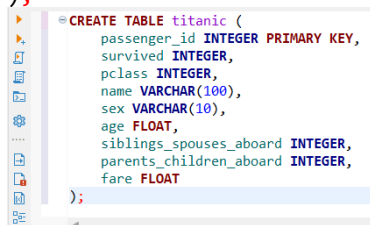


- В качестве dataset выбран <https://www.kaggle.com/datasets/yasserh/titanic-dataset/data>
- Создание новой таблицы

```
CREATE TABLE titanic (
  passenger_id INTEGER PRIMARY KEY,
  survived INTEGER,
  pclass INTEGER,
  name VARCHAR(100),
  sex VARCHAR(10),
  age FLOAT,
  siblings_spouses_aboard INTEGER,
  parents_children_aboard INTEGER,
  fare FLOAT
);
```

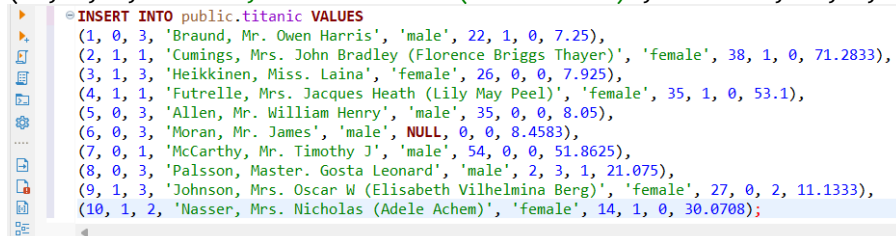


Name	Value
Query	CREATE TABLE titanic (passenger_id INTEGER PRIMARY KEY, survived INTEGER, pclass INTEGER, name VARCHAR(100), sex VARCHAR(10), age FLOAT, siblings_spouses_aboard INTEGER, parents_children_aboard INTEGER, fare FLOAT)
Updated Rows	0
Execute time	0.023s
Start time	Sun Jan 26 12:37:27 MSK 2025
Finish time	Sun Jan 26 12:37:27 MSK 2025

- Наполнение таблицы данными

```
INSERT INTO public.titanic VALUES
```

```
(1, 0, 3, 'Braund, Mr. Owen Harris', 'male', 22, 1, 0, 7.25),
(2, 1, 1, 'Cumings, Mrs. John Bradley (Florence Briggs Thayer)', 'female', 38, 1, 0, 71.2833),
(3, 1, 3, 'Heikkinen, Miss. Laina', 'female', 26, 0, 0, 7.925),
(4, 1, 1, 'Futrelle, Mrs. Jacques Heath (Lily May Peel)', 'female', 35, 1, 0, 53.1),
(5, 0, 3, 'Allen, Mr. William Henry', 'male', 35, 0, 0, 8.05),
(6, 0, 3, 'Moran, Mr. James', 'male', NULL, 0, 0, 8.4583),
(7, 0, 1, 'McCarthy, Mr. Timothy J', 'male', 54, 0, 0, 51.8625),
(8, 0, 3, 'Palsson, Master. Gosta Leonard', 'male', 2, 3, 1, 21.075),
(9, 1, 3, 'Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)', 'female', 27, 0, 2, 11.1333),
(10, 1, 2, 'Nasser, Mrs. Nicholas (Adele Achem)', 'female', 14, 1, 0, 30.0708);
```



Name	Value
Query	INSERT INTO public.titanic VALUES (1, 0, 3, 'Braund, Mr. Owen Harris', 'male', 22, 1, 0, 7.25), (2, 1, 1, 'Cumings, Mrs. John Bradley (Florence Briggs Thayer)', 'female', 38, 1, 0, 71.2833), (3, 1, 3, 'Heikkinen, Miss. Laina', 'female', 26, 0, 0, 7.925), (4, 1, 1, 'Futrelle, Mrs. Jacques Heath (Lily May Peel)', 'female', 35, 1, 0, 53.1), (5, 0, 3, 'Allen, Mr. William Henry', 'male', 35, 0, 0, 8.05), (6, 0, 3, 'Moran, Mr. James', 'male', NULL, 0, 0, 8.4583), (7, 0, 1, 'McCarthy, Mr. Timothy J', 'male', 54, 0, 0, 51.8625), (8, 0, 3, 'Palsson, Master. Gosta Leonard', 'male', 2, 3, 1, 21.075), (9, 1, 3, 'Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)', 'female', 27, 0, 2, 11.1333), (10, 1, 2, 'Nasser, Mrs. Nicholas (Adele Achem)', 'female', 14, 1, 0, 30.0708);
Updated Rows	10
Execute time	0.005s
Start time	Sun Jan 26 12:41:58 MSK 2025
Finish time	Sun Jan 26 12:41:58 MSK 2025

- Запрос данных из PostgreSQL с помощью функции «postgres» в ClickHouse
`select * from postgresql('192.168.1.5:5432', 'postgres', 'titanic', 'postgres', 'default')`

passenger_id	survived	pclass	name	sex	age	siblings_spouses_aborad	parents_children_aborad	fare
1	0	3	Braund, Mr. Owen Harris	male	22	1	0	7.25
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38	1	0	71.2833
3	1	3	Heikinen, Miss. Laina	female	26	0	0	7.925
4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	53.1
5	0	3	Allen, Mr. William Henry	male	35	0	0	8.05
6	0	3	Moran, Mr. James	male	[NULL]	0	0	8.4583
7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	51.8625
8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	21.075
9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	11.1333
10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	30.0708

- Создание таблицы в ClickHouse с движком PostgreSQL

```
CREATE TABLE titanic_postgres
(
    passenger_id UInt32,
    survived UInt8,
    pclass UInt8,
    name String,
    sex String,
    age Nullable(Float32),
    siblings_spouses_aborad UInt8,
    parents_children_aborad UInt8,
    fare Float32
)
ENGINE = PostgreSQL('192.168.1.5:5432', 'postgres', 'titanic', 'postgres', 'default');
```

Name	Value
Query	CREATE TABLE titanic_postgres (passenger_id UInt32, survived UInt8, pclass UInt8, name String, sex String, age Nullable(Float32), siblings_spouses_aborad UInt8, parents_children_aborad UInt8, fare Float32) ENGINE = PostgreSQL('192.168.1.5:5432', 'postgres', 'titanic', 'postgres', 'default')
Updated Rows	0
Execute time	0.023s
Start time	Sun Jan 26 13:38:16 MSK 2025
Finish time	Sun Jan 26 13:38:16 MSK 2025

- Проверка работы таблицы «titanic_postgres»

```
select * from titanic_postgres
```

passenger_id	survived	pclass	name	sex	age	siblings_spouses_aborad	parents_children_aborad	fare
1	0	3	Braund, Mr. Owen Harris	male	22	1	0	7.25
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38	1	0	71.2833
3	1	3	Heikinen, Miss. Laina	female	26	0	0	7.925
4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	53.1
5	0	3	Allen, Mr. William Henry	male	35	0	0	8.05
6	0	3	Moran, Mr. James	male	[NULL]	0	0	8.4583
7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	51.8625
8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	21.075
9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	11.1333
10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	30.0708

- Создание базы данных в ClickHouse с движком PostgreSQL

```
CREATE DATABASE postgres_db
```

```
ENGINE = PostgreSQL('192.168.1.5:5432', 'postgres', 'postgres', 'default');
```

<pre>CREATE DATABASE postgres_db ENGINE = PostgreSQL('192.168.1.5:5432', 'postgres', 'postgres', 'default');</pre>	
Statistics 1	
Name	Value
Query	CREATE DATABASE postgres_db ENGINE = PostgreSQL('192.168.1.5:5432', 'postgres', 'postgres', 'default')
Updated Rows	0
Execute time	0.019s
Start time	Sun Jan 26 13:45:38 MSK 2025
Finish time	Sun Jan 26 13:45:38 MSK 2025

- Проверка работы БД «postgres_db»

```
SELECT passenger_id, survived, pclass, name, sex, age, siblings_spouses_aborad,
parents_children_aborad, fare
```

```
FROM postgres_db.titanic;
```