

Имя	Владелец	Кодировка	LC_COLLATE	Список баз данных LC_COLLATE	локаль ICU	Провайдер локали	Права доступа
cottagearea	postgres	UTF8	Russian_Russia.1251	Russian_Russia.1251		libc	
cottagearea	postgres	UTF8	Russian_Russia.1251	Russian_Russia.1251		libc	
postgres	postgres	UTF8	Russian_Russia.1251	Russian_Russia.1251		libc	
template0	postgres	UTF8	Russian_Russia.1251	Russian_Russia.1251		libc	=c/postgres +
template1	postgres	UTF8	Russian_Russia.1251	Russian_Russia.1251		libc	postgres=Ctc/postgres + =c/postgres + postgres=Ctc/postgres

```
CTPOKA 2: id PRIMARY KEY,
```

ОШИБКА: тип "varchar" не существует

**Table 1**

```
CREATE TABLE
```

```
CREATE TABLE  
cottageara=# CREATE TABLE
```

```
cottagegear=# CREATE TABLE services (
cottagegear(# id SERIAL PRIMARY KEY,
cottagegear(# services_name VARCHAR(50),
cottagegear(# price VARCHAR(50)
cottagegear(# );
CREATE TABLE
cottagegear=# CREATE TABLE owners (
cottagegear(# id SERIAL PRIMARY KEY,
cottagegear(# first_name VARCHAR(50),
cottagegear(# last_name VARCHAR(50)
cottagegear(# );
CREATE TABLE
cottagegear=# CREATE TABLE employees (
cottagegear(# id SERIAL PRIMARY KEY,
cottagegear(# first_name VARCHAR(50),
cottagegear(# last_name VARCHAR(50)
cottagegear(# );
CREATE TABLE
cottagegear=# CREATE TABLE datareg (
cottagegear(# id SERIAL PRIMARY KEY,
cottagegear(# date_reg DATE,
cottagegear(# price_id INT REFERENCES services(id),
cottagegear(# owner_id INT REFERENCES owners(id),
cottagegear(# employee_id INT REFERENCES employees(id)
cottagegear(# );
CREATE TABLE
cottagegear=# \d
cottagegear=# \d
```

Список отношений			
Схема	Имя	Тип	Владелец
public	datereg	таблица	postgres
public	datereg_id_seq	последовательность	postgres
public	employees	таблица	postgres
public	employees_id_seq	последовательность	postgres
public	owners	таблица	postgres
public	owners_id_seq	последовательность	postgres
public	services	таблица	postgres
public	services_id_seq	последовательность	postgres

cottageara-#

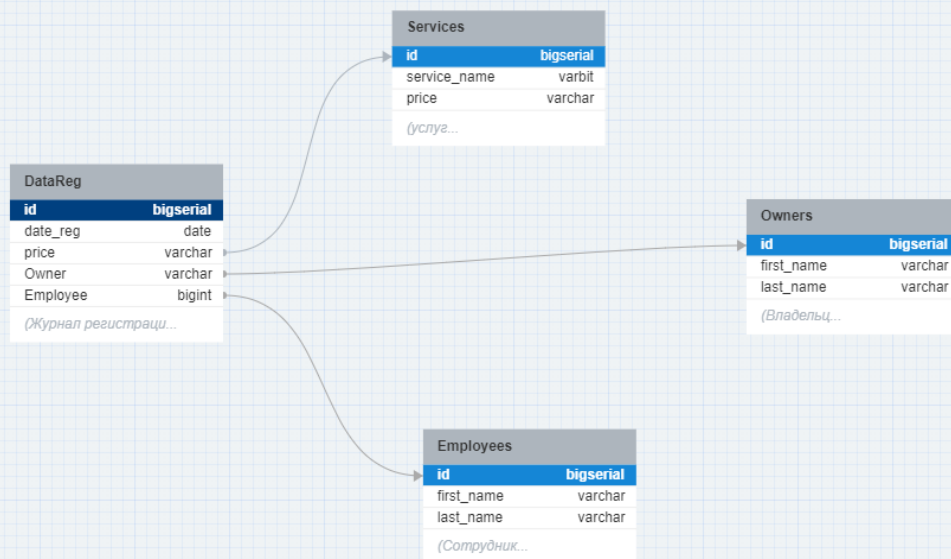
```
cottageara=# insert into employees (first_name, last_name) values ('Salome', 'Bruhke');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Katharina', 'Dawidowitz');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Corbett', 'Jelphs');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Arliene', 'Gernier');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Lilith', 'Werner');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Dimitry', 'Casley');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Bunny', 'Tuckerman');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Tawsha', 'Batha');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Jacynth', 'Klaes');
INSERT 0 1
cottageara=# insert into employees (first_name, last_name) values ('Shauna', 'MacInnes');
INSERT 0 1
cottageara=# SELECT * FROM employees;
 id | first_name | last_name
-----+-----+-----
  1 | Salome     | Bruhke
  2 | Katharina  | Dawidowitz
  3 | Corbett    | Jelphs
  4 | Arliene    | Gernier
  5 | Lilith     | Werner
  6 | Dimitry    | Casley
  7 | Bunny      | Tuckerman
  8 | Tawsha     | Batha
  9 | Jacynth    | Klaes
 10 | Shauna     | MacInnes
(10 строк)
```

```
cottageara=# insert into services (services_name, price) values ('Illuminating Daily Moisturizer', '$7.18');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Allergena', '$16.85');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('PNV Prenatal Vitamin', '$10.24');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('NARS ALL DAY LUMINOUS FOUNDATION', '$18.17');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Desipramine Hydrochloride', '$4.89');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Hemorrhoidal', '$11.05');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Super Aqua Facial Foam', '$11.64');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Leader Aspirin', '$10.06');
INSERT 0 1
cottageara=# insert into services (services_name, price) values ('Bio Psorinum Phase', '$10.96');
INSERT 0 1
cottageara=# SELECT * FROM services;
 id | services_name | price
-----+-----+-----
  1 | Illuminating Daily Moisturizer | $7.18
  2 | Allergena | $16.85
  3 | PNV Prenatal Vitamin | $10.24
  4 | NARS ALL DAY LUMINOUS FOUNDATION | $18.17
  5 | Desipramine Hydrochloride | $4.89
  6 | Hemorrhoidal | $11.05
  7 | Super Aqua Facial Foam | $11.64
  8 | Leader Aspirin | $10.06
  9 | Bio Psorinum Phase | $10.96
(9 строк)
```

```
cottageara=# insert into owners (first_name, last_name) values ('Brunhilda', 'Chapling');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Mead', 'Lloyd-Williams');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Neila', 'Purvis');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Elsey', 'Trenam');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Legra', 'Rorke');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Nicolina', 'Westmore');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Rozella', 'Hatherleigh');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Andriana', 'Ingrem');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Romola', 'Bunton');
INSERT 0 1
cottageara=# insert into owners (first_name, last_name) values ('Helen-elizabeth', 'McNuff');
INSERT 0 1
cottageara=# SELECT * FROM owners;
 id | first_name | last_name
-----+-----+-----
  1 | Brunhilda  | Chapling
  2 | Mead       | Lloyd-Williams
  3 | Neila      | Purvis
  4 | Elsey      | Trenam
  5 | Legra      | Rorke
  6 | Nicolina   | Westmore
  7 | Rozella    | Hatherleigh
  8 | Andriana   | Ingrem
  9 | Romola     | Bunton
 10 | Helen-elizabeth | McNuff
(10 строк)
```

```
cottageara=# insert into datareg (date_reg) values ('16/9/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('12/11/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('19/4/2023');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('28/7/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('4/10/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('22/10/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('3/6/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('27/5/2022');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('1/2/2023');
INSERT 0 1
cottageara=# insert into datareg (date_reg) values ('11/11/2022');
INSERT 0 1
cottageara=# SELECT * FROM datareg;
 id | date_reg | price_id | owner_id | employee_id
-----+-----+-----+-----+-----
  1 | 2022-09-16 |          |          | 
  2 | 2022-11-12 |          |          | 
  3 | 2023-04-19 |          |          | 
  4 | 2022-07-28 |          |          | 
  5 | 2022-10-04 |          |          | 
  6 | 2022-10-22 |          |          | 
  7 | 2022-06-03 |          |          | 
  8 | 2022-05-27 |          |          | 
  9 | 2023-02-01 |          |          | 
 10 | 2022-11-11 |          |          | 
(10 строк)
```

```
cottageara=#
cottageara=# insert into datareg (id, date_reg, price_id, owner_id, employee_id) values (12, '24.06.2023', 3, 4, 4);
ОШИБКА: повторяющееся значение ключа нарушает ограничение уникальности "datareg_pkey"
ПОДРОБНОСТИ: Ключ "(id)=(12)" уже существует.
cottageara=# insert into datareg (id, date_reg, price_id, owner_id, employee_id) values (13, '24.06.2023', 3, 4, 4);
INSERT 0 1
cottageara=# insert into datareg (id, date_reg, price_id, owner_id, employee_id) values (14, '20.09.2023', 4, 5, 5);
INSERT 0 1
cottageara=# insert into datareg (id, date_reg, price_id, owner_id, employee_id) values (15, '14.06.2023', 5, 6, 6);
INSERT 0 1
cottageara=# insert into datareg (id, date_reg, price_id, owner_id, employee_id) values (16, '22.04.2023', 6, 7, 7);
INSERT 0 1
cottageara=# SELECT * FROM datareg;
 id | date_reg | price_id | owner_id | employee_id
-----+-----+-----+-----+-----
  1 | 2023-05-18 |          |          | 
  2 | 2023-05-06 |          |          | 
  3 | 2022-06-24 |          |          | 
  4 | 2022-09-20 |          |          | 
  5 | 2022-06-14 |          |          | 
  6 | 2023-04-22 |          |          | 
  7 | 2023-02-17 |          |          | 
  8 | 2022-05-25 |          |          | 
  9 | 2023-04-20 |          |          | 
 10 | 2023-05-02 |          |          | 
 11 | 2023-05-10 |          |          | 
 12 | 2023-06-05 |          |          | 
 13 | 2023-06-24 |          |          | 
 14 | 2023-09-20 |          |          | 
 15 | 2023-06-14 |          |          | 
 16 | 2023-04-22 |          |          | 
(16 строк)
```



```
postgres=# \c cottageara;
Вы подключены к базе данных "cottageara" как пользователь "postgres".
cottageara=# SELECT
cottageara=# DATE_TRUNC('HOUR', NOW()) D1,
cottageara=# DATE_TRUNC('DAY', NOW()) D2,
cottageara=# DATE_TRUNC('MONTH', NOW()) D3;
      d1              |              d2              |              d3
-----+-----+-----
2023-05-25 23:00:00+03 | 2023-05-25 00:00:00+03 | 2023-05-01 00:00:00+03
(1 строка)
```

```
cottageara=# SELECT NOW() D1,
cottageara=# NOW() + JUSTIFY_INTERVAL('30 DAYS 1 HOUR 2 MINUTE') D2,
cottageara=# NOW() - JUSTIFY_INTERVAL('30 DAYS 1 HOUR 2 MINUTE') D3;
      d1              |              d2              |              d3
-----+-----+-----
2023-05-25 23:53:08.757485+03 | 2023-06-26 00:55:08.757485+03 | 2023-04-25 22:51:08.757485+03
(1 строка)
```

```
cottageara=# SELECT
cottageara=# CHR(84) X1,
cottageara=# CHR(1058) X2,
cottageara=# CHR(80) X3,
cottageara=# CHR(1060) X4;
  x1 | x2 | x3 | x4
----+---+---+---
  T | T | P | Φ
(1 строка)
```

```
cottageara=# SELECT LTRIM(' TeXt DATA') X1,
cottageara=# LTRIM(' _ # TeXt DATA', ' # ') X2,
cottageara=# LTRIM(' 1234567890 TeXt ', ' ') X3
cottageara=# UNION ALL
cottageara=# SELECT RTRIM('TeXt DATA ') X1,
cottageara=# RTRIM('TeXt DATA _ # ', ' # ') X2,
cottageara=# RTRIM(' DATA 1234567890 ', ' 1234567890') X3;
      x1              |      x2              |      x3
-----+-----+-----
TeXt DATA | TeXt DATA | 1234567890 TeXt
TeXt DATA | TeXt DATA | DATA
(2 строки)
```

```
cottageara=# SELECT LOWER('TeXt DATA') X;
      x
-----
text data
(1 строка)
```

```
cottageara=# SELECT EXP(1) X1, LN(1) X2, LN(EXP(2)) X3;
      x1      | x2 | x3
-----+-----+-----
2.718281828459045 | 0 | 2
(1 строка)
```

```
cottageara=# SELECT LOG(2, 8) X1, LOG(10, 100) X2;
      x1      | x2
-----+-----
3.000000000000000 | 2.000000000000000
(1 строка)
```

```
cottageara=# SELECT POWER(10, 2) X1, POWER(100, 0.5) X2,
cottageara-# POWER(1000, 0.33333333) X3, POWER(1000, -0.33333333) X4;
      x1      | x2      | x3      | x4
-----+-----+-----+-----
100 | 10.000000000000000 | 9.999997697414934 | 0.1000000023025851
(1 строка)
```

```
cottageara=# SELECT MOD(10, 3) X1, MOD(10, 2) X2, MOD(100, 98) X3;
      x1 | x2 | x3
-----+-----
1 | 0 | 2
(1 строка)
```

```
cottageara=# SELECT SIGN(100.22) X1, SIGN(-100.22) X2, SIGN(0) X3;
      x1 | x2 | x3
-----+-----
1 | -1 | 0
(1 строка)
```

```
cottageara=# SELECT ROUND(100.25678) X1, ROUND(100.5) X2,
cottageara-# ROUND(100.99) X3, ROUND(100.25678, 2) X4;
      x1 | x2 | x3 | x4
-----+-----+-----+-----
100 | 101 | 101 | 100.26
(1 строка)
```

```
cottageara=# SELECT TRUNC(100.25678) X1, TRUNC(-100.25678) X2,  
cottageara=# TRUNC(100.99) X3, TRUNC(100.25678, 2) X4;  
x1 | x2 | x3 | x4  
-----+-----+-----+-----  
100 | -100 | 100 | 100.25  
(1 строка)
```

```
cottageara=# SELECT FLOOR(100.22) X1, FLOOR(-100.22) X2,  
cottageara=# FLOOR(100.99) X3, FLOOR(100.01) X4;  
x1 | x2 | x3 | x4  
-----+-----+-----+-----  
100 | -101 | 100 | 100  
(1 строка)
```

```
cottageara=# SELECT CEIL(100) X1, CEIL(-100) X2,  
cottageara=# CEIL(100.2) X3, CEIL(-100.2) X4;  
x1 | x2 | x3 | x4  
-----+-----+-----+-----  
100 | -100 | 101 | -100  
(1 строка)
```

```
cottageara=# SELECT ABS(100) X1, ABS(-100) X2, ABS(-100.2) X3;  
x1 | x2 | x3  
-----+-----+-----  
100 | 100 | 100.2  
(1 строка)
```

```
cottageara=# SELECT NOW();  
now  
-----  
2023-05-25 21:47:37.203913+03  
(1 строка)
```

```
cottageara=#
```