

1. Выполнение тренировочных запросов по примеру в презентации «SQL-запросы примеры для выполнения на занятии»

pgAdmin 4

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Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgre... Import/postgre... Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM billing
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	vasya@mail.com	petya@mail.com	681.00	AUD	2015-12-13	Procrastinator? No, I just wait until the last second to do my work because I will be older, therefore wiser.
2	petya@mail.com	ivan@mail.com	714.00	EUR	2015-12-22	You remind me of my Chinese friend...Ug Lee.
3	ivan@mail.com	bobby@mail.com	338.00	SGD	2015-01-14	I just dropped my laptop off the boat....It's a Dell, rolling in the deep.
4	bobby@mail.com	lenny@mail.com	157.00	INR	2015-06-17	I was planning to do something today, but I haven't finished doing nothing from yesterday.
5	lenny@mail.com	alex@mail.com	623.00	CHF	2015-01-04	I just dropped my laptop off the boat....It's a Dell, rolling in the deep.
6	igor@mail.com	john@mail.com	722.00	EUR	2015-09-02	I feel like getting something done today, so I'm just going to sit here until the feeling passes.

Total rows: 101 of 101 Query complete 00:00:00.214 Ln 1, Col 22

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Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

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Query Query History

```
1 SELECT payer_email, sum FROM "billing";
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	sum numeric
1	vasya@mail.com	681.00
2	petya@mail.com	714.00
3	ivan@mail.com	338.00
4	bobby@mail.com	157.00
5	lenny@mail.com	623.00
6	Igor@mail.com	722.00
7	john@mail.com	198.00

Total rows: 101 of 101 Query complete 00:00:00.214 Ln 1, Col 40

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Query Query History

```
1 SELECT * FROM "billing" WHERE sum>900;
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	franz@mail.com	vasya@mail.com	960.00	CHF	2015-07-09	I really like ceilings.....I guess you could call me a ceiling fan.
2	igor@mail.com	leo@mail.com	997.00	MYR	2015-08-10	Better late then never, but never late is better.
3	vasya@mail.com	bobby@mail.com	930.00	GBP	2015-01-09	Whatever you do in life give 100%.....unless you're giving blood.
4	leo@mail.com	petya@mail.com	993.00	JPY	2015-03-30	I changed all my passwords to 'incorrect'. So my computer just tells me when I forgot.
5	petya@mail.com	john@mail.com	925.00	USD	2015-07-09	Grammar is somewhat important. Commas do save lives for instance: 'Let's eat grandpa.' 'Lets eat, grandpa.'
6	vasya@mail.com	john@mail.com	942.00	CHF	2015-12-07	Better late then never, but never late is better.
7	igor@mail.com	bobby@mail.com	979.00	GBP	2015-04-15	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help!. I just laughed, I knew the
8	enzo@mail.com	leo@mail.com	990.00	INR	2015-09-01	I dream of a better tomorrow, where chickens can cross the road and not be questioned about their motives.

Total rows: 8 of 8 Query complete 00:00:00.107 Ln 1, Col 39

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Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "billing" WHERE sum>900 AND currency='CHF';
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	franz@mail.com	vasya@mail.com	960.00	CHF	2015-07-09	I really like ceilings.....I guess you could call me a ceiling f...
2	vasya@mail.com	john@mail.com	942.00	CHF	2015-12-07	Better late then never, but never late is better.

Total rows: 2 of 2 Query complete 00:00:00.118 Ln 1, Col 56

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Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "billing" WHERE sum>900 AND currency IN ('CHF', 'GBP');
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	franz@mail.com	vasya@mail.com	960.00	CHF	2015-07-09	I really like ceilings.....I guess you could call me a ceiling fan.
2	vasya@mail.com	bobby@mail.com	930.00	GBP	2015-01-09	Whatever you do in life give 100%.....unless you're giving blood.
3	vasya@mail.com	john@mail.com	942.00	CHF	2015-12-07	Better late then never, but never late is better.
4	igor@mail.com	bobby@mail.com	979.00	GBP	2015-04-15	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help!. I just laughed, I knew the

Total rows: 4 of 4 Query complete 00:00:00.114 Ln 1, Col 67

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Query Query History

```
1 SELECT * FROM "billing" WHERE sum>900 AND currency NOT IN ('CHF', 'GBP');
```

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	igor@mail.com	leo@mail.com	997.00	MYR	2015-08-10	Better late then never, but never late is better.
2	leo@mail.com	petya@mail.com	993.00	JPY	2015-03-30	I changed all my passwords to 'incorrect'. So my computer just tells me when I forgot.
3	petya@mail.com	john@mail.com	925.00	USD	2015-07-09	Grammar is somewhat important. Commas do save lives for instance: 'Let's eat grandpa.' 'Lets eat, grand...
4	enzo@mail.com	leo@mail.com	990.00	INR	2015-09-01	I dream of a better tomorrow, where chickens can cross the road and not be questioned about their motiv...

Total rows: 4 of 4 Query complete 00:00:00.195 Ln 1, Col 56

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Import/postgres@PostgreSQL 15

Query Query History

```
1 INSERT INTO "billing" VALUES (  
2     'alex@mail.com',  
3     'leo@mail.com',  
4     '500.00',  
5     'MYR',  
6     '2010-08-20',  
7     'Here are some money for you'  
8 );
```

Scratch Pad

Data Output Messages Notifications

INSERT 0 1

Query returned successfully in 225 msec.

Total rows: 4 of 4 Query complete 00:00:00.225 Ln 8, Col 3

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Query Query History Scratch Pad

```
1 INSERT INTO "billing" (  
2     payer_email,  
3     recipient_email,  
4     sum,  
5     currency,  
6     comment,  
7     billing_date)  
8 VALUES (  
9     'alex@mail.com',  
10    'leo@mail.com',  
11    '1000.00',  
12    'MYR',  
13    'Here are some money for you',  
14    '2010-08-20'  
15 );
```

Data Output Messages Notifications

INSERT 0 1

Query returned successfully in 129 msec.

Total rows: 4 of 4 Query complete 00:00:00.129 Ln 15, Col 3

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Import/postgres@PostgreSQL 15

Query Query History Scratch Pad

```
1 SELECT * FROM billing
2 WHERE payer_email = 'alex@mail.com'
3 AND recipient_email = 'leo@mail.com'
4 AND sum = '500.00';
5 UPDATE billing
6 SET currency = 'USD'
7 WHERE payer_email = 'alex@mail.com'
8 AND recipient_email = 'leo@mail.com'
9 AND sum = '500.00'
```

Data Output Messages Notifications

payer_email	recipient_email	sum	currency	billing_date	comment
character varying	character varying	numeric	character varying	date	character varying

Total rows: 0 of 0 Query complete 00:00:00.153 Ln 3, Col 29

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Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM billing
```

Scratch Pad

Data Output Messages Notifications

	payer_email	recipient_email	sum	currency	billing_date	comment
	character varying	character varying	numeric	character varying	date	character varying
92	ivan@mail.com	bobby@mail.com	466.00	CHF	2015-05-16	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help!. I just laughed, I knew
93	bobby@mail.com	lenny@mail.com	275.00	CHF	2015-08-11	I was planning to do something today, but I haven't finished doing nothing from yesterday.
94	lenny@mail.com	alex@mail.com	104.00	CHF	2015-12-22	You remind me of my Chinese friend...Ug Lee.
95	igor@mail.com	john@mail.com	308.00	EUR	2015-01-19	I was planning to do something today, but I haven't finished doing nothing from yesterday.
96	john@mail.com	leo@mail.com	257.00	AUD	2015-08-07	I changed all my passwords to 'incorrect'. So my computer just tells me when I forgot.
97	leo@mail.com	enzo@mail.com	477.00	MYR	2015-10-20	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help!. I just laughed, I knew
98	enzo@mail.com	franz@mail.com	436.00	USD	2015-04-07	The dictionary is the only place where success comes before work.
99	franz@mail.com	vasya@mail.com	398.00	GBP	2015-07-30	I wish real life was like cartoons. I could wear the same outfit and nobody would care.
100	pasha@mail.com	katya@mail.com	300.00	EUR	2019-02-14	Valentines day present)
101	alex@mail.com	leo@mail.com	1000.00	MYR	2010-08-20	Here are some money for you
102	alex@mail.com	leo@mail.com	500.00	USD	2010-08-20	Here are some money for you

Total rows: 103 of 103 Query complete 00:00:00.140 Ln 1, Col 22

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Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT COUNT(1) FROM project
```

Scratch Pad

Data Output Messages Notifications

	count	bigint
1		100

Total rows: 1 of 1 Query complete 00:00:00.108 Ln 1, Col 29

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Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History Scratch Pad

```
1 SELECT AVG(budget) FROM project;
```

Data Output Messages Notifications

	avg numeric
1	484532.450000000000

Total rows: 1 of 1 Query complete 00:00:00.087 Ln 1, Col 18

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File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

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Query Query History

```
1 SELECT AVG(budget) FROM project;
2
3 SELECT
4     project_finish,
5     project_start,
6     DATE_PART('day', project_finish::timestamp -
7             project_start::timestamp)
8 FROM project;
```

Scratch Pad

Data Output Messages Notifications

	project_finish date	project_start date	date_part double precision
1	2015-10-21	2015-04-27	177
2	2015-12-29	2015-02-27	305
3	2015-08-02	2015-01-05	209
4	2015-10-13	2015-05-31	135
5	2015-08-21	2015-02-18	184
6	2015-12-22	2015-02-06	319
7	2015-09-27	2015-01-18	252
8	2015-07-10	2015-06-18	22
9	2015-07-02	2015-05-05	58
10	2015-10-18	2015-04-07	194
11	2015-12-25	2015-05-12	227
12	2015-11-06	2015-02-21	258

Total rows: 100 of 100 Query complete 00:00:00.152

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Query Query History

```
1 SELECT AVG(budget) FROM project;
2
3 SELECT
4     project_finish,
5     project_start,
6     DATE_PART('day', project_start::timestamp -
7         project_finish::timestamp)
8 FROM project WHERE project_finish IS NOT NULL;
```

Scratch Pad

Data Output Messages Notifications

	project_finish date	project_start date	date_part double precision
1	2015-10-21	2015-04-27	-177
2	2015-12-29	2015-02-27	-305
3	2015-08-02	2015-01-05	-209
4	2015-10-13	2015-05-31	-135
5	2015-08-21	2015-02-18	-184
6	2015-12-22	2015-02-06	-319
7	2015-09-27	2015-01-18	-252
8	2015-07-10	2015-06-18	-22
9	2015-07-02	2015-05-05	-58
10	2015-10-18	2015-04-07	-194
11	2015-12-25	2015-05-12	-227
12	2015-11-06	2015-02-21	-258

Total rows: 100 of 100 Query complete 00:00:00.111

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Query Query History

```
1 SELECT AVG(budget) FROM project;
2
3 SELECT
4     project_finish,
5     project_start,
6     DATE_PART('day', project_finish::timestamp -
7             project_start::timestamp)
8 FROM project WHERE project_finish IS NOT NULL;
```

Scratch Pad

Data Output Messages Notifications

	project_finish date	project_start date	date_part double precision
1	2015-10-21	2015-04-27	177
2	2015-12-29	2015-02-27	305
3	2015-08-02	2015-01-05	209
4	2015-10-13	2015-05-31	135
5	2015-08-21	2015-02-18	184
6	2015-12-22	2015-02-06	319
7	2015-09-27	2015-01-18	252
8	2015-07-10	2015-06-18	22
9	2015-07-02	2015-05-05	58
10	2015-10-18	2015-04-07	194
11	2015-12-25	2015-05-12	227
12	2015-11-06	2015-02-21	258

Total rows: 100 of 100 Query complete 00:00:00.185

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Query Query History

```
1 SELECT AVG(budget) FROM project;
2
3 SELECT
4     AVG(DATE_PART ('day', project_finish::timestamp -
5         project_start::timestamp))
6 FROM project WHERE project_finish IS NOT NULL;
```

Scratch Pad

Data Output Messages Notifications

	avg	double precision
1		190.64

Total rows: 1 of 1 Query complete 00:00:00.100 Ln 3, Col 7

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 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - Trigger Functions
 - Types
 - Views
 - Subscriptions
 - custDatabase

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```

1 SELECT
2     AVG (DATE_PART ('day', project_finish::timestamp -
3                   project_start::timestamp)),
4     MAX (DATE_PART ('day', project_finish::timestamp -
5                   project_start::timestamp)),
6     MIN (DATE_PART ('day', project_finish::timestamp -
7                   project_start::timestamp))
8 FROM project WHERE project_finish IS NOT NULL;

```

Scratch Pad

Data Output Messages Notifications

	avg double precision	max double precision	min double precision
1	190.64	333	22

Total rows: 1 of 1 Query complete 00:00:00.152 Ln 6, Col 5

- Добавьте в таблицу billing одну запись о платеже со следующими значениями:
 email плательщика: 'pasha@mail.com'
 email получателя: 'katya@mail.com'
 сумма: 300.00

валюта: 'EUR'

дата операции: 14.02.2018

комментарий: 'Valentines day present')

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Object Explorer' pane shows the database structure, with the 'billing' table under the 'public' schema selected. The main pane shows the 'Query' editor with the following SQL statement:

```
1 INSERT INTO "billing" VALUES(  
2     'pasha@mail.com',  
3     'katya@mail.com',  
4     '300.00',  
5     'EUR',  
6     '2018-02-14',  
7     'Valentines day present')  
8 );
```

Below the query editor, the 'Data Output' tab shows the execution results:

```
INSERT 0 1  
  
Query returned successfully in 83 msec.
```

The status bar at the bottom indicates 'Total rows: 1 of 1' and 'Query complete 00:00:00.083'. The bottom right corner shows 'Ln 7, Col 26'.

pgAdmin 4

File Object Tools Help

Object Explorer

- Extensions
- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - 1.3 Sequences
 - Tables (2)
 - billing
 - Columns (6)
 - payer_email
 - recipient_email
 - sum
 - currency
 - billing_date
 - comment
 - Constraints
 - Indexes
 - RLS Policies
 - Rules

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

1 `SELECT * FROM "billing"`

Scratch Pad

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
94	bobby@mail.com	lenny@mail.com	275.00	CHF	2015-08-11	I was planning to do something today, but I haven't finished doing nothing from yesterday.
95	lenny@mail.com	alex@mail.com	104.00	CHF	2015-12-22	You remind me of my Chinese friend...Ug Lee.
96	igor@mail.com	john@mail.com	308.00	EUR	2015-01-19	I was planning to do something today, but I haven't finished doing nothing from yesterday.
97	john@mail.com	leo@mail.com	257.00	AUD	2015-08-07	I changed all my passwords to 'incorrect'. So my computer just tells me when I forgot.
98	leo@mail.com	enzo@mail.com	477.00	MYR	2015-10-20	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help! I just laughed, I knew
99	enzo@mail.com	franz@mail.com	436.00	USD	2015-04-07	The dictionary is the only place where success comes before work.
100	franz@mail.com	vasya@mail.com	398.00	GBP	2015-07-30	I wish real life was like cartoons. I could wear the same outfit and nobody would care.
101	pasha@mail.com	katya@mail.com	300.00	EUR	2019-02-14	Valentines day present)
102	alex@mail.com	leo@mail.com	1000.00	MYR	2010-08-20	Here are some money for you
103	alex@mail.com	leo@mail.com	500.00	USD	2010-08-20	Here are some money for you
104	pasha@mail.com	katya@mail.com	300.00	EUR	2018-02-14	Valentines day present)

Total rows: 104 of 104 Query complete 00:00:00.168 Ln 1, Col 23

3. Измените адрес плательщика на 'igor@mail.com' для всех записей таблицы, где адрес плательщика 'alex@mail.com'

pgAdmin 4

File Object Tools Help

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (2)
 - billing
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - project
 - Columns (5)
 - name_1
 - name_2
 - project_start
 - project_finish
 - budget
 - Constraints
 - Indexes

Dashboard Properties SQL Statistics Dependencies Dependents Processes billing_homeWork.sql

Import/postgres@PostgreSQL 15

Query Query History

```
1 UPDATE billing
2 SET payer_email = 'igor@mail.com'
3 WHERE payer_email = 'alex@mail.com'
```

Scratch Pad

Data Output Messages Notifications

UPDATE 0

Query returned successfully in 185 msec.

Total rows: 12 of 12 Query complete 00:00:00.185 Ln 1, Col 1

pgAdmin 4

File Object Tools Help

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (2)
 - billing
 - Columns
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - project
 - Columns (5)
 - name_1
 - name_2
 - project_start
 - project_finish
 - budget
 - Constraints
 - Indexes

Dashboard Properties SQL Statistics Dependencies Dependents Processes **billing_homeWork.sql***

Import/postgres@PostgreSQL 15

Query Query History

```

1 SELECT * FROM billing
2 WHERE payer_email = 'igor@mail.com'

```

Data Output Messages Notifications

	payer_email character varying	recipient_email character varying	sum numeric	currency character varying	billing_date date	comment character varying
1	igor@mail.com	john@mail.com	722.00	EUR	2015-09-02	I feel like getting something done today, so I'm just going to sit here until the feeling passes.
2	igor@mail.com	leo@mail.com	997.00	MYR	2015-08-10	Better late then never, but never late is better.
3	igor@mail.com	enzo@mail.com	109.00	USD	2015-09-03	The dictionary is the only place where success comes before work.
4	igor@mail.com	franz@mail.com	610.00	JPY	2015-06-14	I wish real life was like cartoons. I could wear the same outfit and nobody would care..
5	igor@mail.com	vasya@mail.com	502.00	AUD	2015-10-28	I was complimented on my driving. Someone left a note on my windshield that said, 'Parking Fine.'
6	igor@mail.com	petya@mail.com	843.00	MYR	2015-02-14	I wonder if tap dancers walk into a room, look at the floor and think, 'I'd so tap that.'
7	igor@mail.com	ivan@mail.com	533.00	EUR	2015-02-04	Procrastinator? No, I just wait until the last second to do my work because I will be older, therefore wiser.
8	igor@mail.com	bobby@mail.com	979.00	GBP	2015-04-15	One time at the beach this guy was swimming in the ocean yelling Help! Shark! Help!. I just laughed, I knew
9	igor@mail.com	lenny@mail.com	247.00	EUR	2015-10-10	I really like ceilings.....I guess you could call me a ceiling fan.
10	igor@mail.com	john@mail.com	308.00	EUR	2015-01-19	I was planning to do something today, but I haven't finished doing nothing from yesterday.
11	igor@mail.com	leo@mail.com	500.00	MYR	2010-08-20	Here are some money for you
12	igor@mail.com	leo@mail.com	1000.00	MYR	2010-08-20	Here are some money for you

Total rows: 12 of 12 Query complete 00:00:00.100 Ln 1, Col 22

4. Для таблицы project вывести в качестве результата запросов: общее количество заказов, сумму стоимостей (бюджетов) всех проектов, средний срок исполнения заказа в днях

pgAdmin 4

File Object Tools Help

Object Explorer

- Extensions
- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (2)
 - billing
 - Columns (6)
 - payer_email
 - recipient_email
 - sum
 - currency
 - billing_date
 - comment
 - Constraints
 - Indexes
 - RLS Policies
 - Rules

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT COUNT(*) FROM project
```

Scratch Pad

Data Output Messages Notifications

	count	bigint
1		100

Total rows: 1 of 1 Query complete 00:00:00.069 Ln 1, Col 15

pgAdmin 4

File Object Tools Help

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (2)
 - billing
 - project
 - Columns (5)
 - name_1
 - name_2
 - project_start
 - project_finish
 - budget
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - Trigger Functions
 - Types
 - Views

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT SUM(budget) FROM project
```

Scratch Pad

Data Output Messages Notifications

	sum	
	numeric	
1	48453245.00	

Total rows: 1 of 1 Query complete 00:00:00.103 Ln 1, Col 12

pgAdmin 4

File Object Tools Help

Object Explorer

- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (2)
 - billing
 - project
 - Columns (5)
 - name_1
 - name_2
 - project_start
 - project_finish
 - budget
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT
2     AVG(DATE_PART('day', project_finish::timestamp -
3         project_start::timestamp))
4 FROM project;
```

Scratch Pad

Data Output Messages Notifications

	avg	double precision
1		190.64

Total rows: 1 of 1 Query complete 00:00:00.147 Ln 4, Col 14

5. Импортировать таблицы из файлов «Client», «sale», «category»

pgAdmin 4

File Object Tools Help

Object Explorer

- Extensions
- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (3)
 - billing
 - category
 - project
 - Trigger Functions
 - Types
 - Views
 - Subscriptions
 - custDatabase
 - homeDatabase
 - myDatabase
 - postgres
 - Login/Group Roles

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM category
```

Scratch Pad

Data Output Messages Notifications

	id integer		name character varying	
1	1		Air Fresheners	
2	2		Bath Products	
3	3		Cakes	
4	4		Candy	
5	5		Dental Care	
6	6		Health & Medicine	
7	7		Juices	
8	8		Snacks	
9	9		Tea & Coffee	
10	10		Water	
11	11		Seasonings & Spices	
12	12		Pasta & Noodles	
13	13		Fruits & Vegetables	

Total rows: 66 of 66 Query complete 00:00:00.118

Ln 1, Col 23

Process completed

Copying table data 'public.category' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

View Processes

Process started

Copying table data 'public.category' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

View Processes

pgAdmin 4

File Object Tools Help

Object Explorer

- Extensions
- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (4)
 - billing
 - category
 - client
 - project
 - Trigger Functions
 - Types
 - Views
- Subscriptions
- custDatabase
- homeDatabase
- myDatabase
- postgres

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM client
```

Data Output Messages Notifications

	id integer	code character varying	firstname character varying	lastname character varying	source_id integer
1	1	client_1	Kristy	Dean	5
2	2	client_2	Ellis	Ortega	4
3	3	client_3	Joseph	Bridges	2
4	4	client_4	Brandon	Porter	1
5	5	client_5	Lowell	Hamilton	6
6	6	client_6	Sherman	Rogers	1
7	7	client_7	Bessie	Reynolds	2
8	8	client_8	Willie	Day	2
9	9	client_9	Maggie	Jennings	
10	10	client_10	Gene	Copeland	
11	11	client_11	Chester	Pena	
12	12	client_12	Jeannie	Miles	
13	13	client_13	Clifford	Poole	
14	14	client_14	Leo	Freeman	
15	15	client_15	Michael	Foster	
16	16	client_16	Drew	Copeland	
17	17	client_17	Carla	Price	
18	18	client_18	Tommie	Patrick	
19	19	client_19	Maggie	Lowe	

Total rows: 1000 of 1000 Query complete 00:00:00.146 Ln 1, Col 9

Process completed

Copying table data 'public.client' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

[View Processes](#)

Process started

Copying table data 'public.client' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

[View Processes](#)

pgAdmin 4

File Object Tools Help

Object Explorer

- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (5)
 - billing
 - category
 - client
 - project
 - sale
 - Trigger Functions
 - Types
 - Views
 - Subscriptions
 - custDatabase
 - homeDatabase
 - myDatabase
 - postgres
 - Login/Group Roles
 - Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents Processes Import/postgres@PostgreSQL 15*

Import/postgres@PostgreSQL 15

Query Query History

1 SELECT * FROM sale

Scratch Pad

Data Output Messages Notifications

	id integer	client_id numeric	number character varying	dt_created timestamp without time zone	dt_modified timestamp without time zone	sale_sum numeric	status_id numeric
1	1	10	ORD_1	2015-04-23 00:00:00	2015-05-04 00:00:00	4246.00	1
2	2	4	ORD_2	2015-04-08 00:00:00	2015-06-02 00:00:00	9093.00	1
3	3	5	ORD_3	2015-05-14 00:00:00	2015-06-26 00:00:00	9246.00	6
4	4	7	ORD_4	2015-02-27 00:00:00	2015-03-01 00:00:00	9521.00	3
5	5	7	ORD_5	2015-01-12 00:00:00	2015-02-09 00:00:00	6309.00	4
6	6	6	ORD_6	2015-06-06 00:00:00	2015-06-21 00:00:00	7886.00	7
7	7	2	ORD_7	2015-04-22 00:00:00	2015-06-11 00:00:00	3262.00	4
8	8	4	ORD_8	2015-05-19 00:00:00	2015-05-27 00:00:00	7521.00	7
9	9	8	ORD_9	2015-06-23 00:00:00	2015-06-23 00:00:00	1000.00	4
10	10	10	ORD_10	2015-06-06 00:00:00	2015-06-06 00:00:00	1000.00	4
11	11	1	ORD_11	2015-02-02 00:00:00	2015-02-02 00:00:00	1000.00	4
12	12	1	ORD_12	2015-04-06 00:00:00	2015-04-06 00:00:00	1000.00	4
13	13	10	ORD_13	2015-03-20 00:00:00	2015-03-20 00:00:00	1000.00	4
14	14	4	ORD_14	2015-01-23 00:00:00	2015-01-23 00:00:00	1000.00	4
15	15	2	ORD_15	2015-03-17 00:00:00	2015-03-17 00:00:00	1000.00	4
16	16	10	ORD_16	2015-01-03 00:00:00	2015-01-03 00:00:00	1000.00	4
17	17	4	ORD_17	2015-02-17 00:00:00	2015-02-17 00:00:00	1000.00	4
18	18	8	ORD_18	2015-04-01 00:00:00	2015-04-01 00:00:00	1000.00	4
19	19	6	ORD_19	2015-04-28 00:00:00	2015-04-28 00:00:00	1000.00	4

Total rows: 1000 of 3000 Query complete 00:00:00.247

Ln 1, Col 19

Process completed

Copying table data 'public.sale' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

View Processes

Process started

Copying table data 'public.sale' on database 'Import' and server 'PostgreSQL 15 (localhost:5432)'

View Processes

6. Создать базу данных на основе скрипта aero_pg_script.sql

pgAdmin 4

File Object Tools Help

Object Explorer

- > Extensions
- > Foreign Data Wrappers
- > Languages
- > Publications
- > Schemas (1)
 - > public
 - > Aggregates
 - > Collations
 - > Domains
 - > FTS Configurations
 - > FTS Dictionaries
 - > FTS Parsers
 - > FTS Templates
 - > Foreign Tables
 - > Functions
 - > Materialized Views
 - > Operators
 - > Procedures
 - > Sequences
 - > Tables (4)
 - > company
 - > pass_in_trip
 - > passenger
 - > trip
 - > Trigger Functions
 - > Types
 - > Views
 - > Subscriptions
- > custDatabase
- > homeDatabase
- > myDatabase
- > postgres
- > Login/Group Roles

Dashboard Properties SQL Statistics Dependencies Dependents Processes aero_pg/postgres@PostgreSQL 15*

aero_pg/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "company"
```

Scratch Pad

Data Output Messages Notifications

id_comp [PK] integer	name character
1	Don_avia
2	Aeroflot
3	Dale_avia
4	air_France
5	British_AW

Total rows: 5 of 5 Query complete 00:00:00.240 Ln 1, Col 21

pgAdmin 4

File Object Tools Help

Object Explorer

- > Extensions
- > Foreign Data Wrappers
- > Languages
- > Publications
- > Schemas (1)
 - > public
 - > Aggregates
 - > Collations
 - > Domains
 - > FTS Configurations
 - > FTS Dictionaries
 - > FTS Parsers
 - > FTS Templates
 - > Foreign Tables
 - > Functions
 - > Materialized Views
 - > Operators
 - > Procedures
 - > Sequences
 - > Tables (4)
 - > company
 - > pass_in_trip
 - > passenger
 - > trip
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 - > Types
 - > Views
- > Subscriptions
- > custDatabase
- > homeDatabase
- > myDatabase
- > postgres
- > Login/Group Roles

Dashboard Properties SQL Statistics Dependencies Dependents Processes aero_pg/postgres@PostgreSQL 15*

aero_pg/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "pass_in_trip"
```

Scratch Pad

Data Output Messages Notifications

	trip_no [PK] integer	date [PK] timestamp without time zone	id_psg [PK] integer	place character
1	1100	2003-04-29 00:00:00	1	1a
2	1123	2003-04-05 00:00:00	3	2a
3	1123	2003-04-08 00:00:00	1	4c
4	1123	2003-04-08 00:00:00	6	4b
5	1124	2003-04-02 00:00:00	2	2d
6	1145	2003-04-05 00:00:00	3	2c
7	1181	2003-04-01 00:00:00	1	1a
8	1181	2003-04-01 00:00:00	6	1b
9	1181	2003-04-01 00:00:00	8	3c
10	1181	2003-04-13 00:00:00	5	1b

Total rows: 32 of 32 Query complete 00:00:00.217

Ln 1, Col 26

pgAdmin 4

File Object Tools Help

Object Explorer

- Extensions
- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (4)
 - company
 - pass_in_trip
 - passenger
 - trip
 - Trigger Functions
 - Types
 - Views
 - Subscriptions
 - custDatabase
 - homeDatabase
 - myDatabase
 - postgres
 - Login/Group Roles

Dashboard Properties SQL Statistics Dependencies Dependents Processes aero_pg/postgres@PostgreSQL 15*

aero_pg/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "passenger"
```

Scratch Pad

Data Output Messages Notifications

id_psg	name
[PK] integer	character
1	Bruce Willis
2	George Clooney ...
3	Kevin Costner
4	Donald Sutherland...
5	Jennifer Lopez
6	Ray Liotta
7	Samuel L. Jacks...
8	Nikole Kidman
9	Alan Rickman
10	Kurt Russell

Total rows: 32 of 32 Query complete 00:00:00.126

Ln 1, Col 23

Successfully run. Total query runtime: 126 msec. 32 rows affected.

pgAdmin 4

File Object Tools Help

Object Explorer

- Servers
 - PostgreSQL 15
 - Databases (6)
 - Import
 - aero_pg
 - Casts
 - Catalogs
 - Event Triggers
 - Extensions
 - Foreign Data Wrappers
 - Languages
 - Publications
 - Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (4)
 - company
 - pass_in_trip
 - passenger
 - trip

Dashboard Properties SQL Statistics Dependencies Dependents Processes aero_pg/postgres@PostgreSQL 15*

aero_pg/postgres@PostgreSQL 15

Query Query History

```
1 SELECT * FROM "trip"
```

Scratch Pad

Data Output Messages Notifications

	trip_no [PK] integer	id_comp integer	plane character	town_from character	town_to character	time_out timestamp without time zone	time_in timestamp without time zone
1	1100	4	Boeing	Rostov	Paris	1900-01-01 14:30:00	1900-01-01 17:50:00
2	1101	4	Boeing	Paris	Rostov	1900-01-01 08:12:00	1900-01-01 11:45:00
3	1123	3	TU-154	Rostov	Vladivostok	1900-01-01 16:20:00	1900-01-01 03:40:00
4	1124	3	TU-154	Vladivostok	Rostov	1900-01-01 09:00:00	1900-01-01 19:50:00
5	1145	2	IL-86	Moscow	Rostov	1900-01-01 09:35:00	1900-01-01 11:23:00
6	1146	2	IL-86	Rostov	Moscow	1900-01-01 17:55:00	1900-01-01 20:01:00
7	1181	1	TU-134	Rostov	Moscow	1900-01-01 06:12:00	1900-01-01 08:01:00
8	1182	1	TU-134	Moscow	Rostov	1900-01-01 12:35:00	1900-01-01 14:30:00
9	1187	1	TU-134	Rostov	Moscow	1900-01-01 15:42:00	1900-01-01 17:39:00
10	1188	1	TU-134	Moscow	Rostov	1900-01-01 22:50:00	

Total rows: 22 of 22 Query complete 00:00:00.165

Ln 1, Col 18

Successfully run. Total query runtime: 165 msec. 22 rows affected.