

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ
Факультет физико-математических и естественных наук
Кафедра информационных технологий

ОТЧЕТ
ПО ЛАБОРАТОРНОЙ РАБОТЕ № 1

дисциплина: Системы управления базами данных

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МОСКВА

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Я создала новую базу данных study.

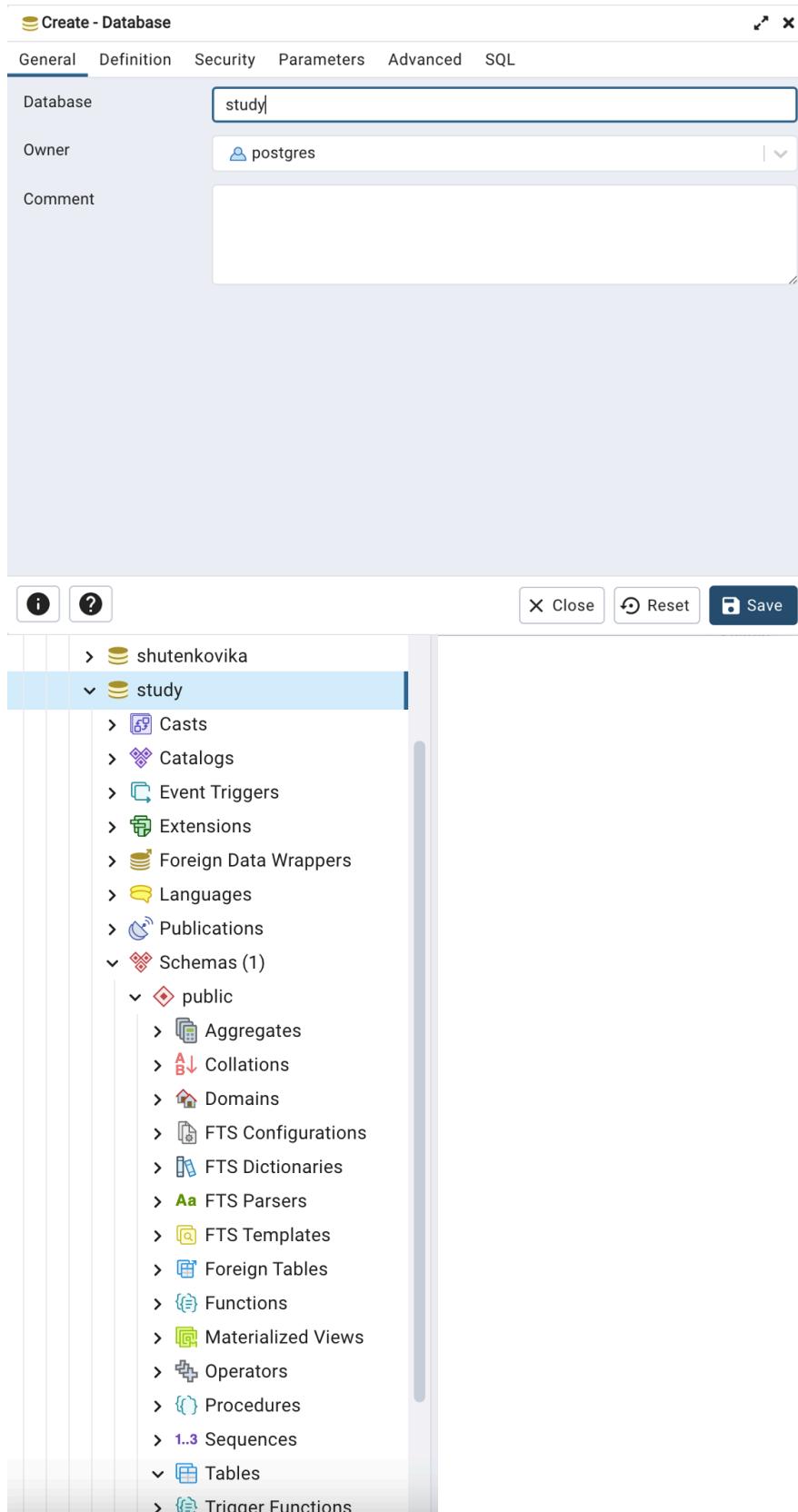


Рисунок 1. Создание базы данных и ее отображение.

Создала таблицу group_stud. Где ключ id.

group_stud

General Columns Advanced Constraints Parameters Security SQL

Inherited from table(s) Select to inherit from...

Columns

	Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?	Default
	id serial pk	integer			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	name	character varying			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	first_year	integer			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	speciality_id	integer			<input checked="" type="checkbox"/>	<input type="checkbox"/>	

group_stud

General Columns Advanced **Constraints** Parameters Security SQL

Primary Key Foreign Key Check Unique Exclude

	Name	Columns
	group_stud_pkey	id

group_stud

General Columns Advanced **Constraints** Parameters Security SQL

Primary Key Foreign Key Check Unique Exclude

	Name	Columns	Referenced Table
	speciality_ffkey	(speciality_id) -> (id)	public.speciality

Navigation sidebar:

- > Domains
- > FTS Configurations
- > FTS Dictionaries
- > FTS Parsers
- > FTS Templates
- > Foreign Tables
- > Functions
- > Materialized Views
- > Operators
- > Procedures
- > 1..3 Sequences
- > Tables (5)
 - > group_stud
 - > speciality

Data Output Messages Notifications

	id serial pk [PK] integer	name character varying	first_year integer	speciality_id integer
1	1	nfi0219	2019	102
2	2	nkn0121	2021	101
3	3	npi0320	2020	101
4	4	nbi0216	2016	102

Рисунок 2. Создание таблицы group_stud, ключа и заполнение таблицы.

Создала таблицу student, где ключ id.

student

- General
- Columns**
- Advanced
- Constraints
- Parameters
- Security
- SQL

Inherited from table(s) Select to inherit from...

Columns								
	Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?	Default	
		id	integer			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	nextval('"'st...
		name	character varying			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		stip	numeric			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		birthday	date			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		gender	character varying			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		group_id	integer			<input checked="" type="checkbox"/>	<input type="checkbox"/>	

student

- General
- Columns
- Advanced
- Constraints**
- Parameters
- Security
- SQL

Primary Key Foreign Key Check Unique Exclude

	Name	Columns	
		student_pkey	id

student

- General
- Columns
- Advanced
- Constraints**
- Parameters
- Security
- SQL

Primary Key Foreign Key Check Unique Exclude

	Name	Columns	Referenced Table	
		group_stud_fkey	(group_id) -> (id)	public.group_stud

	id [PK] integer	name character varying	stip integer	birthday date	gender character varying	group_id integer
1	1352311295	Яковлев Степан	5000	2000-08-17	m	4
2	1352311367	Ванношкина Тать...	3000	1995-10-14	f	1
3	1352314376	Король Илья	5000	1999-05-12	m	4
4	1352310913	Лисин Иван	2000	1999-08-22	m	2
5	1352316705	Ефимов Андрей	0	2002-11-25	m	2
6	1352311234	Жарова ксения	2000	2000-09-16	f	1
7	1356521910	Корандашева Кс...	0	1996-12-23	f	2
8	1356451796	Гончарова Ирина	5000	1996-08-27	f	3
9	1356542180	Крылова Анастас...	0	2001-03-27	f	4
10	1351567840	Полькин Максим	0	2000-01-28	m	2
11	1356451252	Липухин Игорь	3000	2000-12-30	m	1
12	1352317680	Сысоева Зоя	0	1995-03-08	f	2
13	1352316790	Александрова Ан...	0	2000-01-25	f	3
14	1352314818	Костина Юлия	0	1995-06-29	f	1
15	1352314845	Мартынов Влади...	3000	1992-05-27	m	2
16	1352655483	Афонин Андрей	2000	2000-01-15	m	4
17	1352654893	Бофт Светлана	2000	2000-03-13	f	2
18	1352314894	Тимофеев Эйвен	0	1996-11-24	m	1
19	1352314863	Павлова Наталья	3000	1999-08-12	f	4
20	1352314892	Толкалов Артем	5000	2000-02-17	m	3

Рисунок 3. Создание таблицы student, ключа и заполнение таблицы.

Создала таблицу subject, где ключ id.

The screenshot shows three tabs for the 'subject' table in Oracle SQL Developer:

- subject** (General tab): Shows the table structure with three columns: 'id' (integer, primary key, default nextval('sul')), 'name' (character varying), and 'speciality_id' (integer, primary key).
- subject** (Constraints tab): Shows a foreign key constraint 'speciality_fkey' linking 'speciality_id' to the primary key of the 'speciality' table.
- subject** (Primary Key tab): Shows the primary key constraint 'subject_pkey' defined on the 'id' column.

On the right side of the interface, there is a sidebar with various database objects listed, and a data grid showing the current data in the 'subject' table:

	id [PK] integer	name character varying	speciality_id integer
1	5	Алгебра	102
2	4	МСПД	101
3	3	АНГЕМ	102
4	2	СУБД	101
5	1	АЛС	102

Рисунок 4. Создание таблицы subject, ключа и заполнение таблицы.

speciality

General Columns Advanced Constraints Parameters Security SQL

Inherited from table(s) Select to inherit from...

Columns

	Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?	Default
	id	integer					nextval('spipl')
	name	character varying					
	level	character varying					
	faculty	character varying					

Close Reset Save

speciality

General Columns Advanced Constraints Parameters Security SQL

Primary Key Foreign Key Check Unique Exclude

Constraints

	Name	Columns
	speciality_pkey	id

The screenshot shows a database management interface. On the left, there is a sidebar with various database objects: Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Procedures, Sequences, and Tables (5). The 'speciality' table is selected, indicated by a blue bar at the bottom of the sidebar.

The main panel has several tabs at the top: Data Output (which is active), Messages, and Notifications. Below the tabs is a toolbar with icons for file operations like Open, Save, Print, and Export. The main area displays a table with the following data:

	id [PK] integer	name character varying	level character varying	faculty character varying
1	102	Informatics	bachelor	Physico-Mathema...
2	101	Mathematics	master	Physico-Mathema...

Рисунок 4. Создание таблицы speciality, ключа и заполнение таблицы.