

Используем представление для скрытия столбцов. Следующая команда будет содержать только имена и фамилии поставщиков.

```
postgres=# \c sklad;
Вы подключены к базе данных "sklad" как пользователь "postgres".
sklad=# CREATE VIEW driver AS SELECT first_name, last_name FROM postavsiki;
CREATE VIEW
sklad=# SELECT * FROM driver;
 first_name | last_name
-----+-----
    Куров   |    Юрий
    Смотров |    Петр
    Кульянов |   Никита
    Заколов |   Григорий
(4 строки)
```

Теперь скроем строки. Следующая команда будет содержать только id и цену риса

```
sklad=# CREATE VIEW eda AS SELECT id_tovara, price_tovara FROM spisok_tovara WHERE name_tovara ='rice';
CREATE VIEW
sklad=# SELECT * FROM eda;
 id_tovara | price_tovara
-----+-----
         3 | 22rub
(1 строка)
```

Используем представление для отображения вычисляемых столбцов.

Представление объединит столбцы id_postasvika и auto_number

```
sklad=# CREATE VIEW people AS SELECT first_name, (('||id_postasvika||')) || auto_number AS auto_number FROM postavsiki;
CREATE VIEW
sklad=# SELECT * FROM people;
 first_name | auto_number
-----+-----
    Куров   | (11)A100TH
    Смотров | (12)Л604НИ
    Кульянов | (13)K876CC
    Заколов | (14)C111CC
(4 строки)
```

Получим список ограничений.

```
sklad=# SELECT * FROM information_schema.table_constraints;
constraint_catalog | constraint_schema | constraint_name | table_catalog | table_schema | table_name | constraint_type | is_deferrable | initially_deferred | enforced
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
sklad              | public            | postavsiki_pkey | sklad         | public       | postavsiki | PRIMARY KEY    | NO             | NO                 | YES
sklad              | public            | spisok_tovara_pkey | sklad         | public       | spisok_tovara | PRIMARY KEY    | NO             | NO                 | YES
sklad              | public            | poluchateli_tovara_pkey | sklad         | public       | poluchateli_tovara | PRIMARY KEY    | NO             | NO                 | YES
sklad              | public            | kladovsiki_pkey | sklad         | public       | kladovsiki | PRIMARY KEY    | NO             | NO                 | YES
sklad              | public            | kladovsiki_id_postasvika_fkey | sklad         | public       | kladovsiki | FOREIGN KEY     | NO             | NO                 | YES
sklad              | public            | kladovsiki_id_tovara_fkey | sklad         | public       | kladovsiki | FOREIGN KEY     | NO             | NO                 | YES
sklad              | public            | kladovsiki_id_poluchateli_fkey | sklad         | public       | kladovsiki | FOREIGN KEY     | NO             | NO                 | YES
sklad              | public            | 2200_16460_1_not_null | sklad         | public       | postavsiki | CHECK           | NO             | NO                 | YES
sklad              | public            | 2200_16460_2_not_null | sklad         | public       | postavsiki | CHECK           | NO             | NO                 | YES
sklad              | public            | 2200_16460_3_not_null | sklad         | public       | postavsiki | CHECK           | NO             | NO                 | YES
sklad              | public            | 2200_16460_4_not_null | sklad         | public       | postavsiki | CHECK           | NO             | NO                 | YES
-- Далее --
```

Получим список внешних ключей.

```
sklad=# SELECT * FROM information_schema.referential_constraints;
```

constraint_catalog	constraint_schema	constraint_name	unique_constraint_catalog	unique_constraint_schema	unique_constraint_name	match_option	update_rule	delete_rule
sklad	public	kladovsiki_id_postavvika_fkkey	sklad	public	postavviki_pkey	NONE	NO ACTION	NO ACTION
sklad	public	kladovsiki_id_tovara_fkkey	sklad	public	spisok_tovara_pkey	NONE	NO ACTION	NO ACTION
sklad	public	kladovsiki_id_poluchateli_fkkey	sklad	public	poluchateli_tovara_pkey	NONE	NO ACTION	NO ACTION

(3 строки)

Получим список хранимых процедур.

```
sklad=# SELECT * FROM information_schema.routines;
```

specific_catalog	specific_schema	specific_name	routine_catalog	routine_schema	routine_name	routine_type	module_catalog	module_name	data_type	character_maximum_length	character_octet_length	character_set_catalog	character_set_schema	character_set_name	collation_catalog	collation_schema	collation_name	numeric_precision	numeric_precision_radix	numeric_scale	datetime_precision	interval_type	interval_precision	type_udt_catalog	type_udt_schema	type_udt_name	scope_catalog	scope_schema	scope_name	maximum_cardinality	dtid_identifier	routine_definition											
external_name	external_language	parameter_style	is_deterministic	sql_data_access	is_null_call	sql_path	schema_level_routine	max_dynamic_result_sets	is_user_defined_cast	is_implicitly_invocable	security_type	to_sql_specific_catalog	to_sql_specific_schema	to_sql_specific_name	as_locator	created	last_altered	new_savepoint_level	is_undependent	result_cast_from_data_type	result_cast_as_locator	result_cast_char_max_length	result_cast_char_octet_length	result_cast_char_set_catalog	result_cast_char_set_schema	result_cast_char_set_name	result_cast_collation_catalog	result_cast_collation_schema	result_cast_collation_name	result_cast_numeric_precision	result_cast_numeric_precision_radix	result_cast_numeric_scale	result_cast_datetime_precision	result_cast_interval_type	result_cast_interval_precision	result_cast_type_udt_catalog	result_cast_type_udt_schema	result_cast_type_udt_name	result_cast_scope_catalog	result_cast_scope_schema	result_cast_scope_name	result_cast_maximum_cardinality	result_cast_dtd_identifier

Получим список последовательностей.

```
sklad=# SELECT * FROM information_schema.sequences;
```

sequence_catalog	sequence_schema	sequence_name	data_type	numeric_precision	numeric_precision_radix	numeric_scale	start_value	minimum_value	maximum_value	increment	cycle_option
sklad	public	spisok_tovara_id_tovara_seq	integer	32	2	0	1	1	2147483647	1	NO
sklad	public	poluchateli_tovara_id_poluchateli_seq	integer	32	2	0	1	1	2147483647	1	NO
sklad	public	kladovsiki_id_kladovsiki_seq	integer	32	2	0	1	1	2147483647	1	NO

(3 строки)

Получим список таблиц.

```
SQL Shell (psql)
```

table_catalog	table_schema	table_name	table_type	self_referencing_column_name	reference_generation	user_defined_type_catalog	user_defined_type_schema	user_defined_type_name	is_insertable_into	is_typed	commit_action
sklad	public	spisok_tovara_id_tovara_seq	integer	32	2	0	1	1	2147483647	1	NO
sklad	public	poluchateli_tovara_id_poluchateli_seq	integer	32	2	0	1	1	2147483647	1	NO
sklad	public	kladovsiki_id_kladovsiki_seq	integer	32	2	0	1	1	2147483647	1	NO

(3 строки)

```
sklad=# SELECT * FROM information_schema.tables;
```

table_catalog	table_schema	table_name	table_type	self_referencing_column_name	reference_generation	user_defined_type_catalog	user_defined_type_schema	user_defined_type_name	is_insertable_into	is_typed	commit_action
sklad	public	postavviki	BASE TABLE							YES	
sklad	public	kladovsiki	BASE TABLE							YES	
sklad	public	spisok_tovara	BASE TABLE							YES	
sklad	public	poluchateli_tovara	BASE TABLE							YES	
sklad	pg_catalog	pg_statistic	BASE TABLE							YES	
sklad	public	driver	VIEW							YES	
sklad	public	eda	VIEW							YES	
sklad	public	people	VIEW							YES	
sklad	pg_catalog	pg_foreign_table	BASE TABLE							YES	
sklad	pg_catalog	pg_authid	BASE TABLE							YES	
sklad	pg_catalog	pg_shadow	VIEW							NO	
sklad	pg_catalog	pg_roles	VIEW							NO	
sklad	pg_catalog	pg_settings	VIEW							NO	
sklad	pg_catalog	pg_file_settings	VIEW							NO	
sklad	pg_catalog	pg_hba_file_rules	VIEW							NO	
sklad	pg_catalog	pg_config	VIEW							NO	
sklad	pg_catalog	pg_user_mapping	BASE TABLE							YES	
sklad	pg_catalog	pg_replication_origin_status	VIEW							NO	
sklad	pg_catalog	pg_subscription	BASE TABLE							YES	
sklad	pg_catalog	pg_statio_all_indexes	VIEW							NO	
sklad	pg_catalog	pg_largeobject	BASE TABLE							YES	
sklad	pg_catalog	pg_type	BASE TABLE							YES	