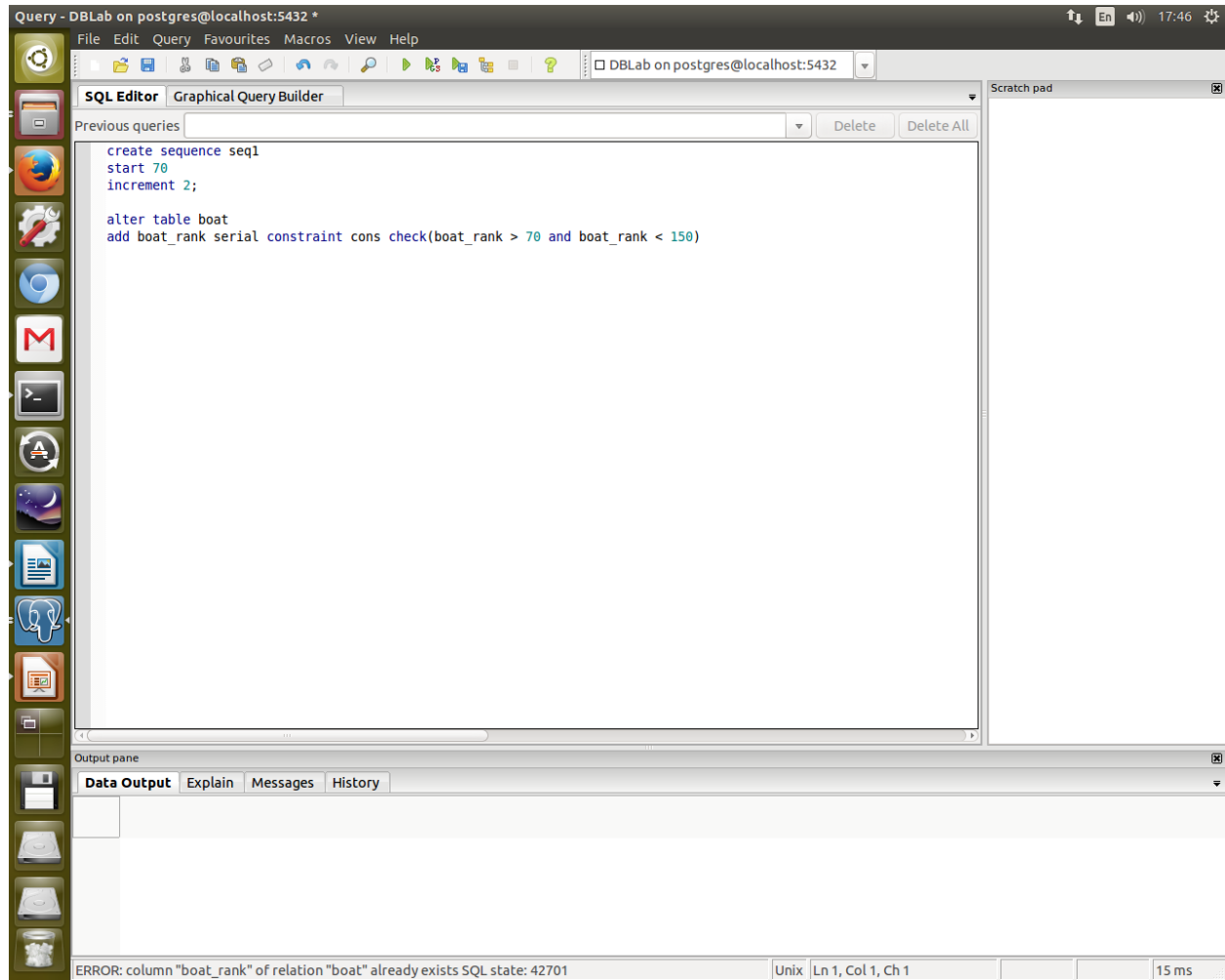


به نام خدا

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گزارش دوم



The screenshot shows the DDLab SQL Editor interface. The main window displays the following SQL query:

```
insert into sailor (sailor_rank) values (4);
insert into sailor (sailor_rank) values (3);
select * from sailor ;
```

The 'Output pane' at the bottom shows the results of the query execution. It includes a table with the following data:

	sailor_name integer	sailor_rank integer
1	1	1
2	2	2
3	3	4
4	4	3

The status bar at the bottom indicates 'OK.', 'Unix', 'Ln 1, Col 43, Ch 43', '4 rows.', and '34 ms'.

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```

create sequence seq1
start 71
increment 2;
insert into boat (boat_name , boat_color , boat_rank) values ('jang1' , 'red' , nextval('seq1'));
insert into boat (boat_name , boat_color , boat_rank) values ('jang2' , 'green' , nextval('seq1'));
insert into boat (boat_name , boat_color , boat_rank) values ('jang3' , 'blue' , nextval('seq1'));
insert into boat (boat_name , boat_color , boat_rank) values ('jang4' , 'yellow' , nextval('seq1'));
select * from boat ;

```

Scratch pad

Output pane

Data Output Explain Messages History

	sailor_name integer	sailor_rank integer
1	1	1
2	2	2
3	3	4
4	4	3

OK. Unix Ln 8, Col 21, Ch 462 4 rows. 12 ms

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```

insert into reserve (sailor_name , boat_name , weekday) values ( 1 , 'jang1' , 'sunday');
insert into reserve (sailor_name , boat_name , weekday) values ( 2 , 'jang2' , 'sunday');
insert into reserve (sailor_name , boat_name , weekday) values ( 3 , 'jang3' , 'sunday');
insert into reserve (sailor_name , boat_name , weekday) values ( 4 , 'jang4' , 'sunday');
select * from reserve ;

```

Scratch pad

Output pane

Data Output Explain Messages History

	sailor_name integer	weekday character varying	boat_name text
1	1	sunday	jang1
2	2	sunday	jang2
3	3	sunday	jang3
4	4	sunday	jang4

OK. Unix |Ln 5, Col 67, Ch 338 4 rows. 37 ms

The screenshot shows the DDLab SQL Editor interface. The title bar reads "Query - DDLab on postgres@localhost:5432 *". The menu bar includes "File", "Edit", "Query", "Favourites", "Macros", "View", and "Help". The toolbar contains various icons for file operations, editing, and execution. The "SQL Editor" tab is active, displaying the query: `select boat_rank from boat;`. To the right of the editor is a "Scratch pad" area. Below the editor is the "Output pane", which has tabs for "Data Output", "Explain", "Messages", and "History". The "Data Output" tab is selected, showing a table with the following data:

	boat_rank
1	71
2	73
3	75
4	77

At the bottom of the window, a status bar shows "OK.", "Unix", "Ln 1, Col 28, Ch 28", "4 rows.", and "12 ms".

The screenshot displays the DDLab SQL Editor window, titled "Query - DDLab on postgres@localhost:5432 *". The interface includes a menu bar (File, Edit, Query, Favourites, Macros, View, Help), a toolbar, and a sidebar with various icons. The main SQL Editor pane contains the query: `select boat_name from reserve where weekday='saturday';`. Below the editor, the "Output pane" is visible, showing the "Data Output" tab with a table of results. The table has one column, "boat_name", and one row with the value "jang2". The status bar at the bottom indicates "OK.", "Unix", "Ln 1, Col 55, Ch 55", "1 row.", and "14 ms".

	boat_name text
1	jang2

The screenshot shows the DDLab SQL Editor interface. The title bar reads "Query - DDLab on postgres@localhost:5432 *". The menu bar includes "File", "Edit", "Query", "Favourites", "Macros", "View", and "Help". The toolbar contains various icons for file operations, editing, and execution. The "SQL Editor" tab is active, displaying the query: `select boat_name from reserve where weekday='saturday' or weekday='monday';`. The "Previous queries" list is empty. The "Output pane" at the bottom shows the "Data Output" tab with the following results:

	boat_name	text
1	jang3	
2	jang2	

The status bar at the bottom indicates "OK.", "Unix", "Ln 1, Col 75, Ch 75", "2 rows.", and "13 ms".

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```
create view v1 as select boat_name , sailor_name, boat_color from boat natural join reserve;  
select * from v1;
```

Scratch pad

Output pane

Data Output Explain Messages History

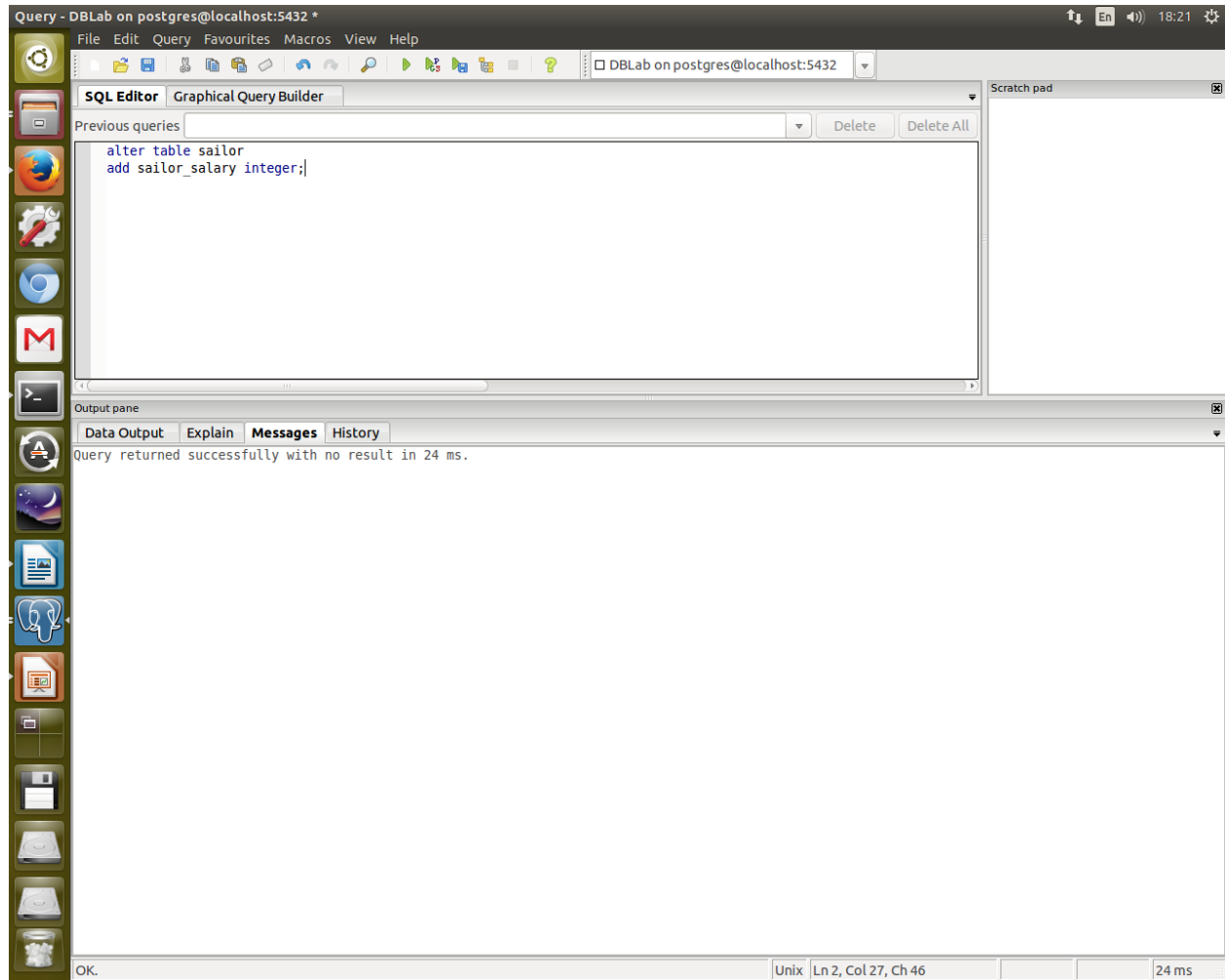
	boat_name text	sailor_name integer	boat_color text
1	jang1	1	red
2	jang2	2	green
3	jang3	3	blue
4	jang4	4	yellow

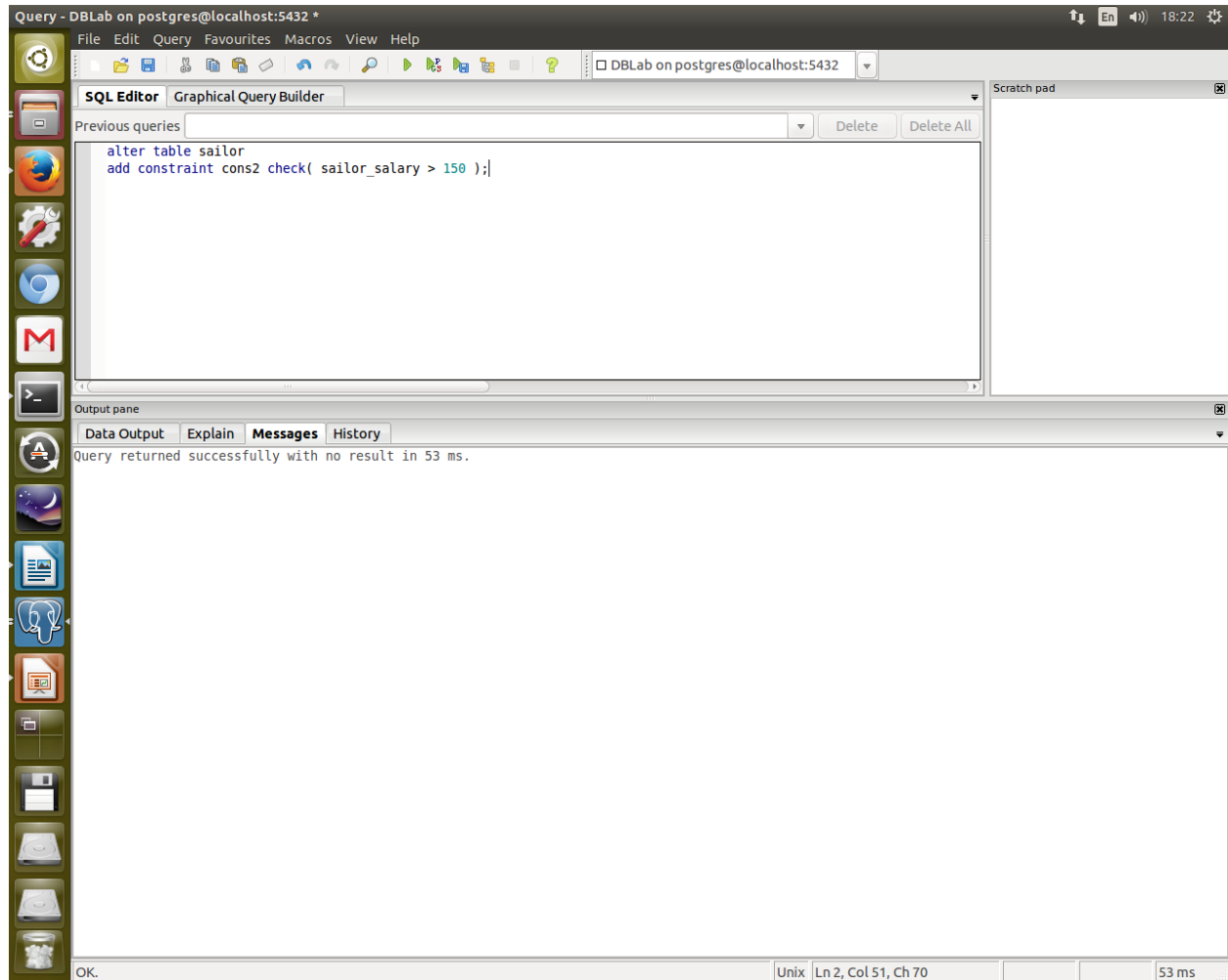
OK. Unix Ln 1, Col 49, Ch 49 4 rows. 44 ms

The screenshot shows the DDLab SQL Editor interface. The title bar reads "Query - DDLab on postgres@localhost:5432 *". The menu bar includes "File", "Edit", "Query", "Favourites", "Macros", "View", and "Help". The toolbar contains various icons for file operations, editing, and execution. The "SQL Editor" tab is active, displaying the query: `select boat_color from boat natural join reserve where weekday like 's%';`. The "Previous queries" list is empty. The "Output pane" at the bottom shows the "Data Output" tab with the following results:

	boat_color text
1	red
2	green
3	yellow

The status bar at the bottom indicates "OK.", "Unix", "Ln 1, Col 74, Ch 74", "3 rows.", and "11 ms".





Query - DDLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```
update sailor set sailor_salary = 190 where sailor_name = 1;  
update sailor set sailor_salary = 200 where sailor_name = 2;  
update sailor set sailor_salary = 300 where sailor_name = 3;  
update sailor set sailor_salary = 500 where sailor_name = 4;  
select * from sailor;
```

Scratch pad

Output pane

Data Output Explain Messages History

	sailor_name integer	sailor_rank integer	sailor_salary integer
1	1	1	190
2	2	2	200
3	3	4	300
4	4	3	500

OK. Unix Ln 4, Col 38, Ch 221 4 rows. 25 ms

The screenshot shows the DDLab SQL Editor interface. The title bar reads "Query - DDLab on postgres@localhost:5432 *". The menu bar includes "File", "Edit", "Query", "Favourites", "Macros", "View", and "Help". The toolbar contains various icons for file operations, editing, and execution. The "SQL Editor" tab is active, showing the query: `select avg(sailor_salary) , sum(sailor_salary) from sailor;`. The "Previous queries" list is empty. The "Output pane" at the bottom shows the "Data Output" tab with the following results:

	avg numeric	sum bigint
1	297.500000000000000000	1190

The status bar at the bottom indicates "OK.", "Unix", "Ln 1, Col 60, Ch 60", "1 row.", and "32 ms".

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```
select avg(sailor_salary) , sum(sailor_salary) from sailor;
```

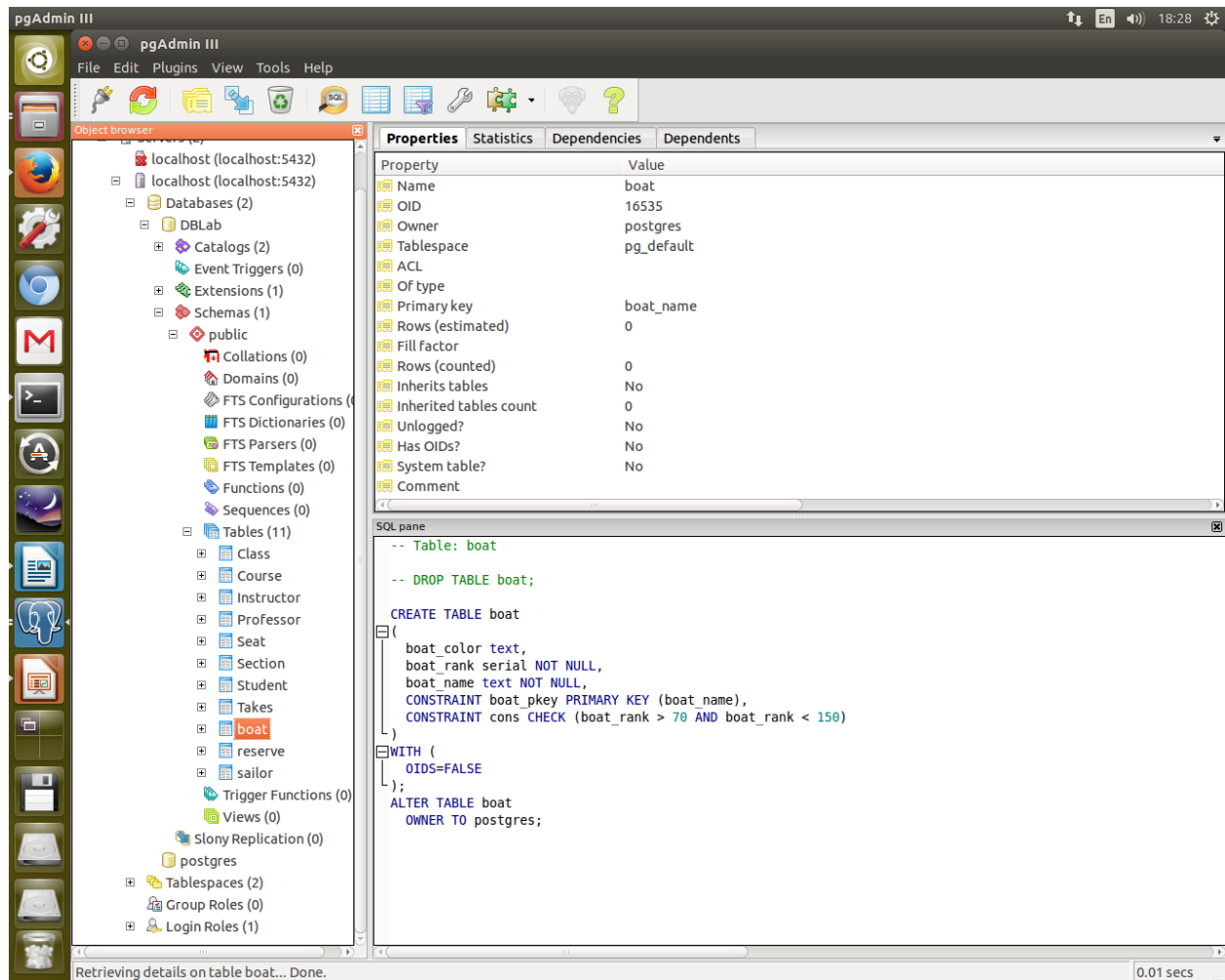
Scratch pad

Output pane

Data Output Explain Messages History

	avg numeric	sum bigint
1	297.500000000000000000	1190

OK. Unix Ln 1, Col 60, Ch 60 1 row. 32 ms



The screenshot displays the pgAdmin III interface. On the left, the 'Object browser' shows the database structure for 'localhost (localhost:5432)', with the 'public' schema and 'Tables (11)' expanded. The 'reserve' table is highlighted. The main pane shows the 'Properties' tab for the 'reserve' table, listing various attributes like Name, OID, Owner, Tablespace, ACL, Of type, Primary key, Rows (estimated), Fill factor, Rows (counted), Inherits tables, Inherited tables count, Unlogged?, Has OIDs?, System table?, and Comment. Below this, the 'SQL pane' shows the SQL definition for the 'reserve' table, including constraints and foreign keys. The status bar at the bottom indicates 'Retrieving details on table reserve... Done.' and a duration of '0.01 secs'.

Property	Value
Name	reserve
OID	16544
Owner	postgres
Tablespace	pg_default
ACL	
Of type	
Primary key	boat_name
Rows (estimated)	0
Fill factor	
Rows (counted)	4
Inherits tables	No
Inherited tables count	0
Unlogged?	No
Has OIDs?	No
System table?	No
Comment	

```
-- Table: reserve
-- DROP TABLE reserve;

CREATE TABLE reserve
(
    sailor_name integer NOT NULL,
    weekday character varying,
    boat_name text NOT NULL,
    CONSTRAINT reserve_pkey PRIMARY KEY (boat_name),
    CONSTRAINT reserve_boat_name_fkey FOREIGN KEY (boat_name)
        REFERENCES boat (boat_name) MATCH SIMPLE
        ON UPDATE NO ACTION ON DELETE NO ACTION,
    CONSTRAINT reserve_sailor_name_fkey FOREIGN KEY (sailor_name)
        REFERENCES sailor (sailor_name) MATCH SIMPLE
        ON UPDATE NO ACTION ON DELETE NO ACTION
)
WITH (
    OIDS=FALSE
);
ALTER TABLE reserve
    OWNER TO postgres;
```

Retrieving details on table reserve... Done. 0.01 secs

