

Робота функції:

The screenshot displays the pgAdmin 4 interface. The left sidebar shows the database structure, including the 'lab_4 DB' and its tables. The main window shows a SQL query editor with the following code:

```
6 BEGIN
7 DELETE FROM Podcasts
8 WHERE Podcasts.pod_id IN
9 (SELECT Podcasts.pod_id from Podcasts left join Countries using(country_id) where Countries.country_id = '003');
10 END;
11 $$
12
13 SELECT clean();
14
15 select * from Podcasts;
16
17 INSERT INTO Podcasts(pod_id, pod_name, pod_genre_id, country_id, author_id, pod_viewers_id, pod_rating_id)
```

The query was executed successfully, as indicated by the green status bar: "Successfully run. Total query runtime: 123 msec. 7 rows affected."

The results of the query are displayed in the 'Data Output' tab, showing a table with 7 rows and 7 columns:

pod_id	pod_name	pod_genre_id	country_id	author_id	pod_viewers_id	pod_rating_id
1000000002	Eat Sleep Code Podcast	2000002	001	11112	vq02	rt02
1000000003	SoundtrackAlley	2000003	002	11113	vq03	rt03
1000000005	Two Guys Talking Wine	2000005	004	11115	vq05	rt05
1000000006	Two Ewes Fiber Adventures	2000006	006	11116	vq06	rt06
1000000008	On The Record	2000008	008	11118	vq08	rt08
1000000009	902 BrewCast	2000009	005	11119	vq09	rt09
1000000011	Fire in the Hole Podcast	2000011	009	11121	vq11	rt11

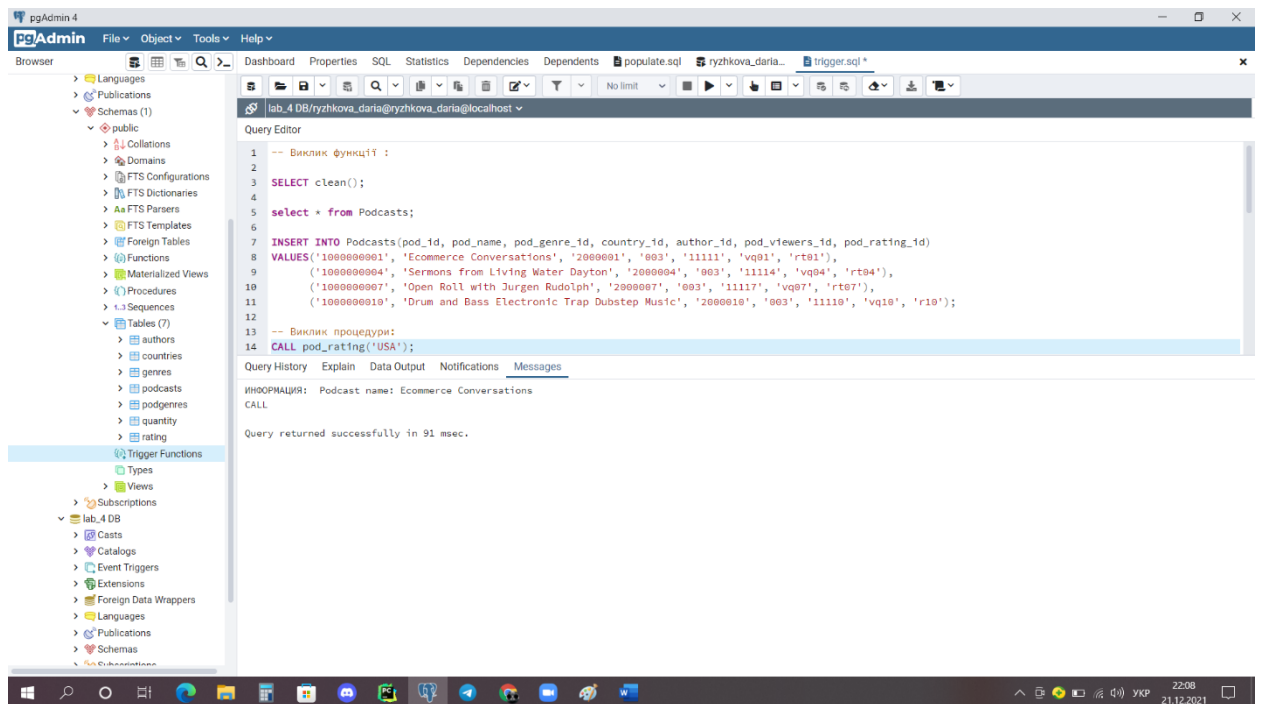
The bottom screenshot shows the same pgAdmin 4 interface, but with a different SQL query in the editor:

```
1 -- функція, що видаляє всі подкастиб країною походження яких є 'USA'
2
3 CREATE OR REPLACE FUNCTION clean() RETURNS void
4 LANGUAGE plpgsql
5 AS $$
6 BEGIN
7 DELETE FROM Podcasts
8 WHERE Podcasts.pod_id IN
9 (SELECT Podcasts.pod_id from Podcasts left join Countries using(country_id) where Countries.country_id = '003');
10 END;
11 $$
12
```

The results of the query are displayed in the 'Data Output' tab, showing a table with 11 rows and 7 columns:

pod_id	pod_name	pod_genre_id	country_id	author_id	pod_viewers_id	pod_rating_id
1000000002	Eat Sleep Code Podcast	2000002	001	11112	vq02	rt02
1000000003	SoundtrackAlley	2000003	002	11113	vq03	rt03
1000000005	Two Guys Talking Wine	2000005	004	11115	vq05	rt05
1000000006	Two Ewes Fiber Adventures	2000006	006	11116	vq06	rt06
1000000008	On The Record	2000008	008	11118	vq08	rt08
1000000009	902 BrewCast	2000009	005	11119	vq09	rt09
1000000011	Fire in the Hole Podcast	2000011	009	11121	vq11	rt11
1000000001	Ecommerce Conversations	2000001	003	11111	vq01	rt01
1000000004	Sermons from Living Water Dayton	2000004	003	11114	vq04	rt04
1000000007	Open Roll with Jurgen Rudolph	2000007	003	11117	vq07	rt07
1000000010	Drum and Bass Electronic Trap Dubstep Music	2000010	003	11110	vq10	rt10

Робота процедури:



pgAdmin 4

File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents populate.sql ryzhkova_daria... trigger.sql *

lab_4 DB/ryzhkova_daria@ryzhkova_daria@localhost

Query Editor

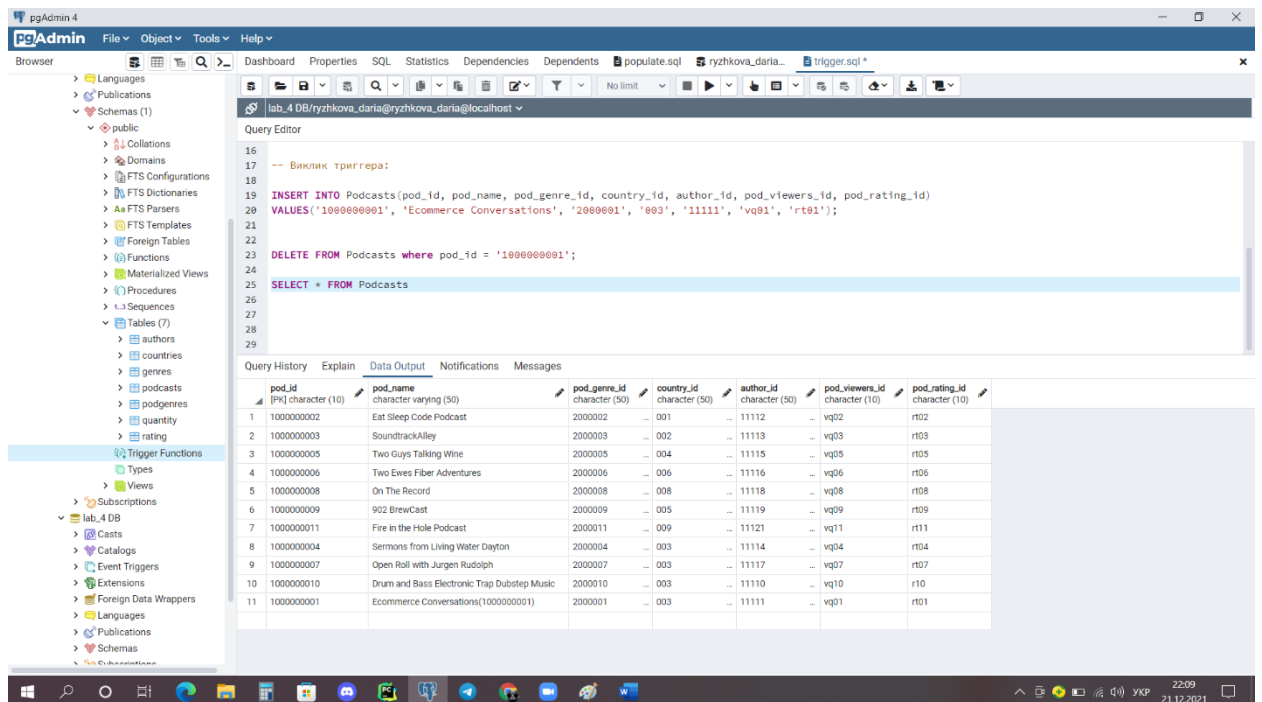
```
1 -- Виклик функції :
2
3 SELECT clean();
4
5 select * from Podcasts;
6
7 INSERT INTO Podcasts(pod_id, pod_name, pod_genre_id, country_id, author_id, pod_viewers_id, pod_rating_id)
8 VALUES('1000000001', 'Ecommerce Conversations', '2000001', '003', '11111', 'vq01', 'rt01'),
9 ('1000000004', 'Sermons from Living Water Dayton', '2000004', '003', '11114', 'vq04', 'rt04'),
10 ('1000000007', 'Open Roll with Jurgen Rudolph', '2000007', '003', '11117', 'vq07', 'rt07'),
11 ('1000000010', 'Drum and Bass Electronic Trap Dubstep Music', '2000010', '003', '11110', 'vq10', 'rt10');
12
13 -- Виклик процедури:
14 CALL pod_rating('USA');
```

Query History Explain Data Output Notifications Messages

INFO/PNAILJR: Podcast name: Ecommerce Conversations
CALL

Query returned successfully in 91 msec.

Робота триггера:



pgAdmin 4

File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents populate.sql ryzhkova_daria... trigger.sql *

lab_4 DB/ryzhkova_daria@ryzhkova_daria@localhost

Query Editor

```
16 -- Виклик триггера:
17
18
19 INSERT INTO Podcasts(pod_id, pod_name, pod_genre_id, country_id, author_id, pod_viewers_id, pod_rating_id)
20 VALUES('1000000001', 'Ecommerce Conversations', '2000001', '003', '11111', 'vq01', 'rt01');
21
22
23 DELETE FROM Podcasts where pod_id = '1000000001';
24
25 SELECT * FROM Podcasts
26
27
28
29
```

Query History Explain Data Output Notifications Messages

pod_id	pod_name	pod_genre_id	country_id	author_id	pod_viewers_id	pod_rating_id
1	1000000002	2000002	001	11112	vq02	rt02
2	1000000003	2000003	002	11113	vq03	rt03
3	1000000005	2000005	004	11115	vq05	rt05
4	1000000006	2000006	006	11116	vq06	rt06
5	1000000008	2000008	008	11118	vq08	rt08
6	1000000009	2000009	005	11119	vq09	rt09
7	1000000011	2000011	009	11121	vq11	rt11
8	1000000004	2000004	003	11114	vq04	rt04
9	1000000007	2000007	003	11117	vq07	rt07
10	1000000010	2000010	003	11110	vq10	rt10
11	1000000001	2000001	003	11111	vq01	rt01