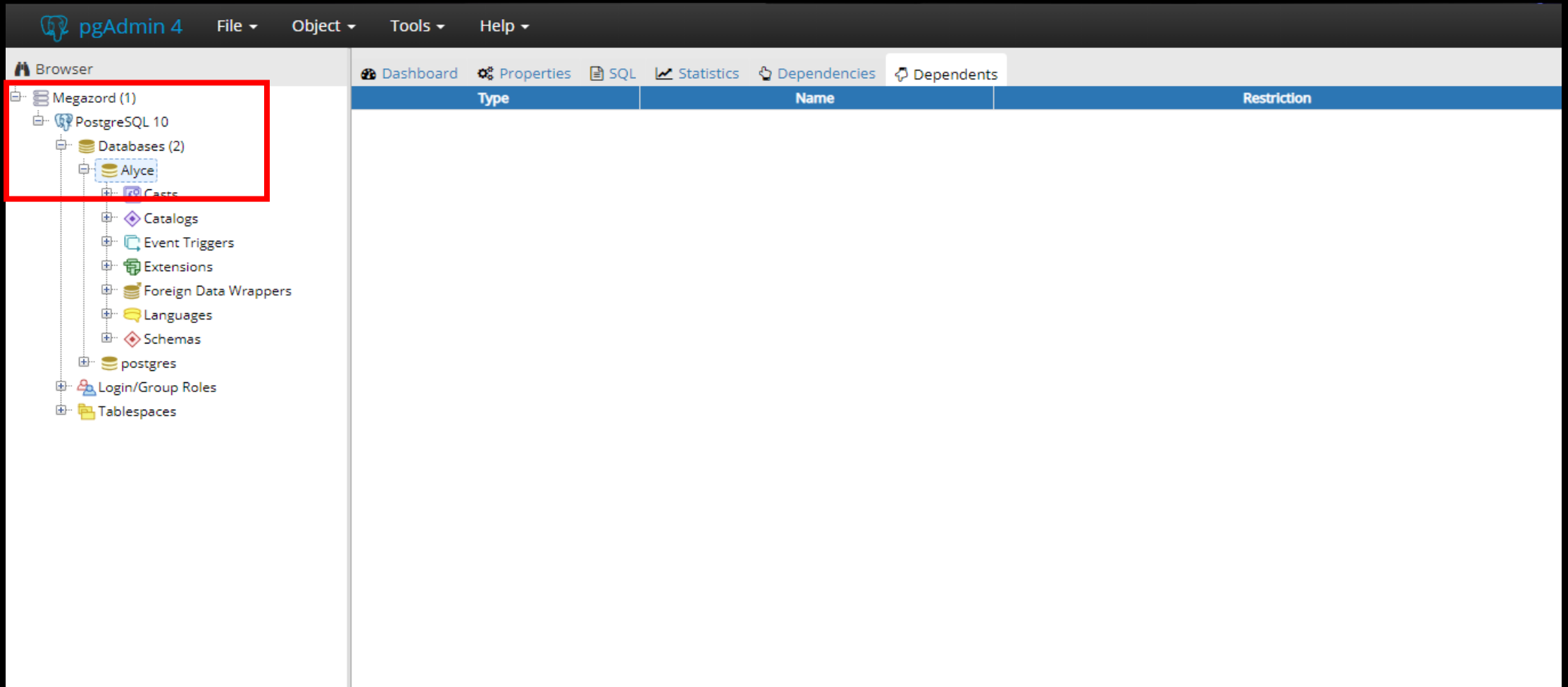
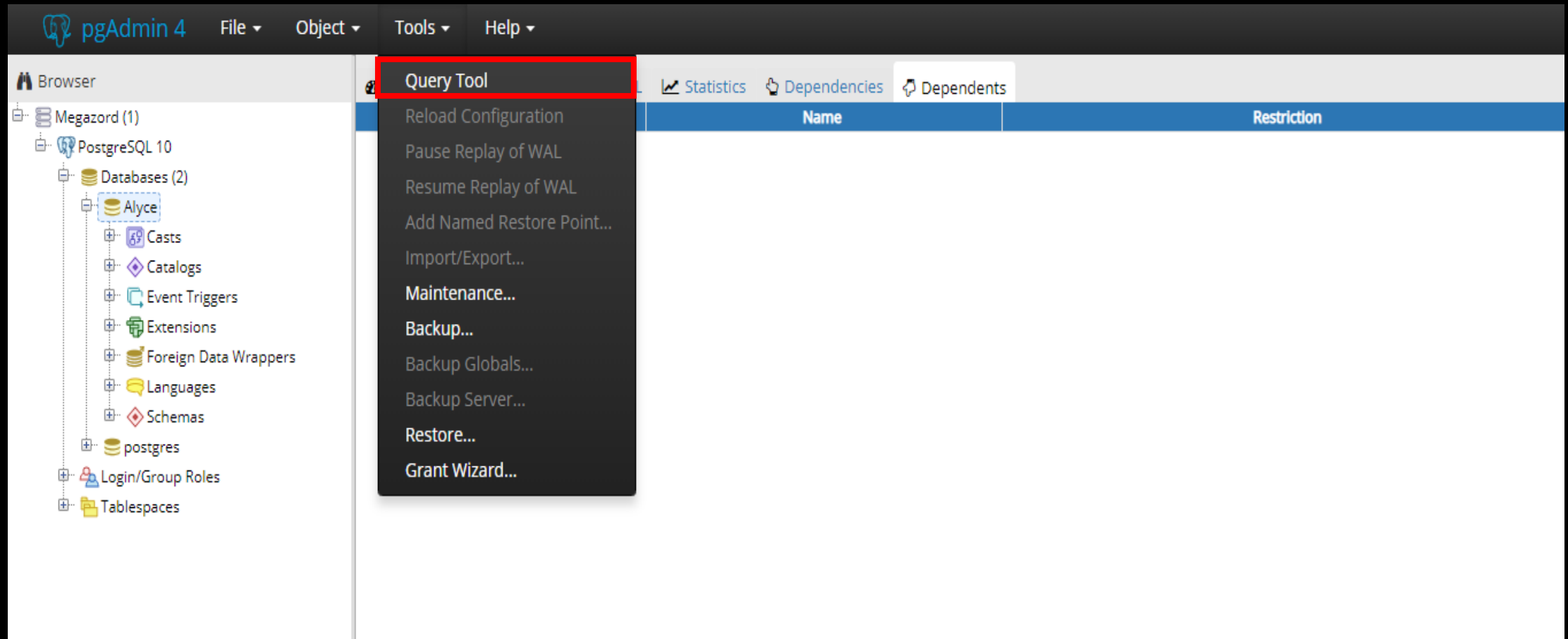


# TUTORIAL COMPLETO DE PASSOS PARA RESTAURACAO DO BANCO E EXECUCAO DE PROCEDIMENTOS

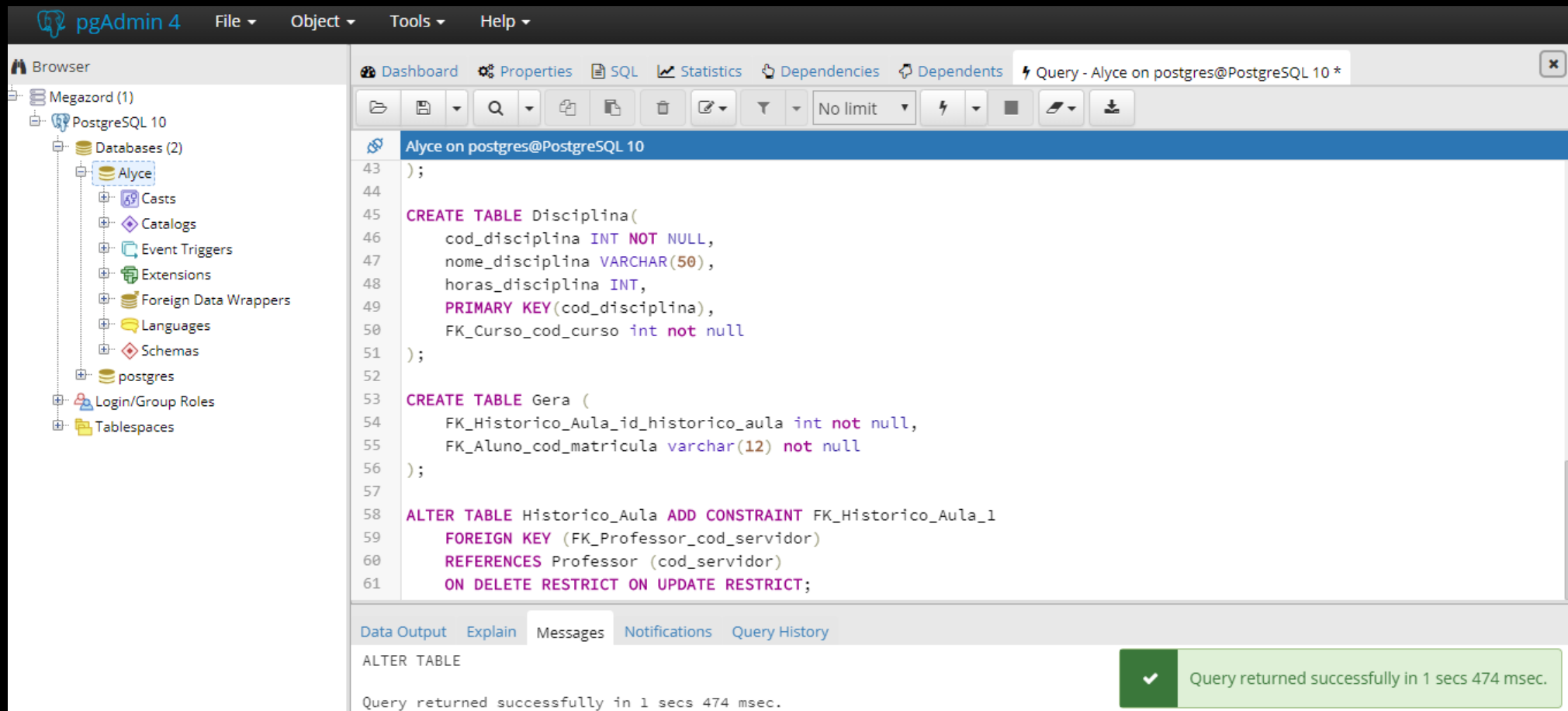
# 1º -Inicie o PgAdmin e acesse o seu banco de dados;



2º - Vá até o menu superior e clique sobre a opção Tools e depois crie uma nova query acessando (Query Tool);



3º - Acesse o documento bkp.txt disponível no GitHub item 11 e copie o texto referente a criação das tabelas (CREATE TABLE). Logo em seguida clique sobre o botão F5 para executar o código;

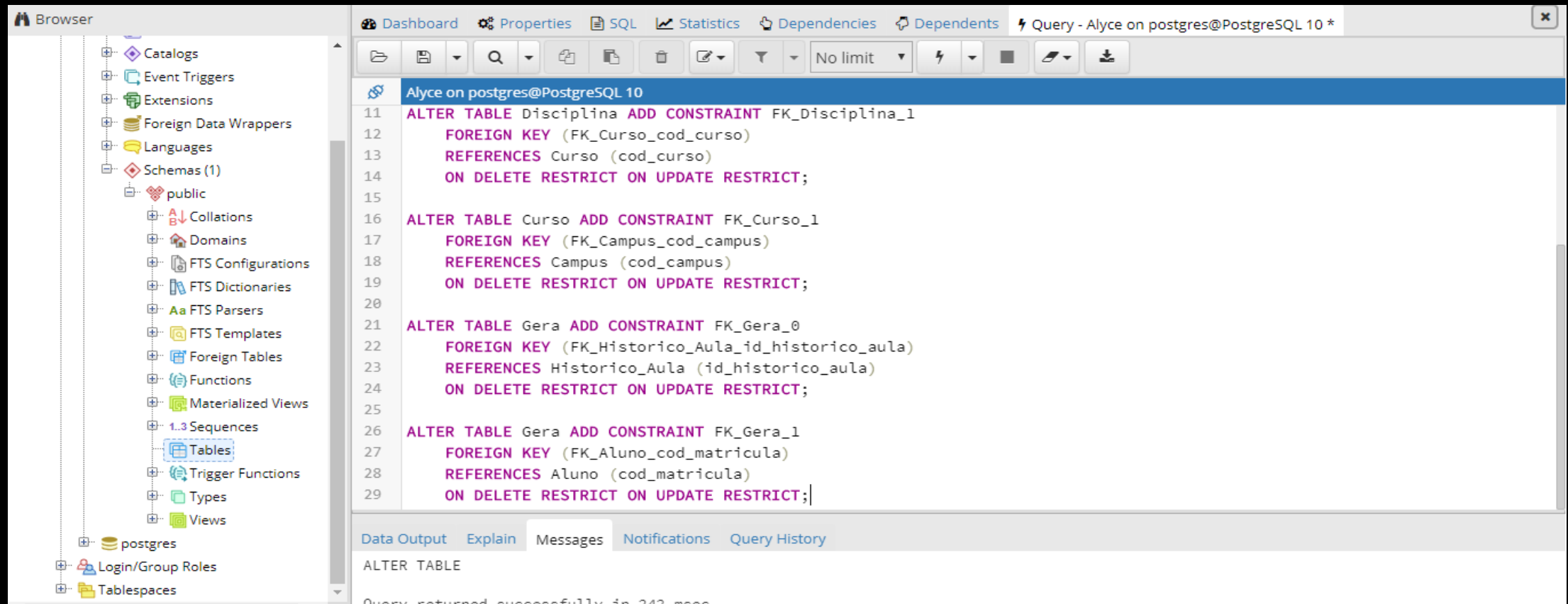


The screenshot displays the pgAdmin 4 web interface. On the left, the 'Browser' pane shows a tree structure with 'Megazord (1)' expanded, containing 'PostgreSQL 10', which in turn contains 'Databases (2)'. Under 'Databases (2)', 'Alyce' is selected, showing its sub-items: 'Casts', 'Catalogs', 'Event Triggers', 'Extensions', 'Foreign Data Wrappers', 'Languages', 'Schemas', 'postgres', 'Login/Group Roles', and 'Tablespaces'. The main pane shows the 'Query' editor for 'Alyce on postgres@PostgreSQL 10'. The editor contains SQL code for creating two tables, 'Disciplina' and 'Gera', and adding a foreign key constraint to the 'Historico\_Aula' table. The code is as follows:

```
43 );  
44  
45 CREATE TABLE Disciplina(  
46     cod_disciplina INT NOT NULL,  
47     nome_disciplina VARCHAR(50),  
48     horas_disciplina INT,  
49     PRIMARY KEY(cod_disciplina),  
50     FK_Curso_cod_curso int not null  
51 );  
52  
53 CREATE TABLE Gera (  
54     FK_Historico_Aula_id_historico_aula int not null,  
55     FK_Aluno_cod_matricula varchar(12) not null  
56 );  
57  
58 ALTER TABLE Historico_Aula ADD CONSTRAINT FK_Historico_Aula_1  
59 FOREIGN KEY (FK_Professor_cod_servidor)  
60 REFERENCES Professor (cod_servidor)  
61 ON DELETE RESTRICT ON UPDATE RESTRICT;
```

At the bottom of the interface, the 'Messages' tab is active, showing a green notification box with a checkmark icon and the text: 'Query returned successfully in 1 secs 474 msec.'

4º - Acesse novamente o documento bkp.txt e copie o texto referente a alteração das tabelas (ALTER TABLE). Logo em seguida clique sobre o botão F5 para executar o código;



5º - Agora acesse o documento bkp.txt e copie o texto necessário para preencher as tabelas(INSERT INTO). Logo em seguida clique sobre o botão F5 para executar o código;

The screenshot displays the pgAdmin 4 web interface. On the left, the 'Browser' pane shows a tree view of the database structure, with 'Tables' highlighted under the 'public' schema. The main pane shows a SQL query window titled 'Query - Alyce on postgres@PostgreSQL 10 \*'. The query contains three INSERT statements: one for a table with 10 columns (lines 36-38), one for 'Historico\_Aula' (lines 41-47), and one for 'Gera' (lines 49-54). The 'Data Output' tab at the bottom shows the result 'INSERT 0 10' and a message 'Query returned successfully in 303 msec.'

```
36 ('20181FIS015','Sofia Costa',12821736770, '1989-01-02', 331716274182071, 'F'),
37 ('20162QUI041', 'Lucas Almeida',32650442115, '1991-09-29', 440580548764603, 'M'),
38 ('20151ADM873', 'Camila Cavalcanti',30377170178, '1987-09-28', 447252797955802, 'F');
39
40
41 INSERT INTO Historico_Aula (id_historico_aula, data_aula, presenca, horario_inicio, horario_saida, fk_professor_cod_serv
42 VALUES(1, '2018-08-20', 'P', '07:50:00', '09:30:00', '2014IFES001',23 ), (12, '2018-08-21', 'P', '08:20:00', '10:00:00',
43 (3, '2018-08-22', 'F', '09:50:00', '11:30:00', '2007IFES023', 8), (22, '2018-08-23', 'P', '16:10:00', '19:00:00', '2005IF
44 (42, '2018-08-24', 'F', '20:00:00', '21:00:00', '2000IFES128', 207), (2, '2018-08-25', 'P', '09:50:00', '11:20:00', '200
45 (13, '2018-08-26', 'P', '08:20:00', '10:00:00', '1995IFES325',1275 ), (4, '2018-08-27', 'F', '20:00:00', '21:00:00', '1999
46 (5, '2018-08-28', 'P', '08:20:00', '09:40:00', '2002IFES653', 207), (6, '2018-08-29', 'F', '18:00:00', '21:00:00', '2007
47
48
49 INSERT INTO Gera (fk_historico_aula_id_historico_aula, fk_aluno_cod_matricula)
50 VALUES (1, '20162MAT003'), (12, '20171AUT552'),
51 (3, '20142AUR222'), (22, '20151ADM873'),
52 (42, '20181FIS015'), (2, '20142MEC188'),
53 (13, '20151ADM873'), (4, '20162MAT003'),
54 (5, '20182FIS237'), (6, '20151ADM873');
```

INSERT 0 10

Query returned successfully in 303 msec.

6º - Agora vamos simular um SELECT no banco de dados para trazer as informações carregadas. (SELECT\* FROM (TABELA)). Logo em seguida clique sobre o botão F5 para executar o código;

The screenshot shows the pgAdmin 4 web interface. On the left is the 'Browser' pane showing a tree view of the database structure, with 'Tables' under the 'public' schema selected. The main area is titled 'Query - Alyce on postgres@PostgreSQL 10 \*'. It contains a SQL query editor with the following text:

```
1 SELECT *
2 FROM Aluno
```

Below the editor is a tabbed interface with 'Data Output' selected. It displays a table with 10 rows of data. The columns are: cod\_matricula, nome\_aluno, cpf\_aluno, data\_nascimento\_aluno, imei, and sexo\_aluno.

	cod_matricula character varying (11)	nome_aluno character varying (50)	cpf_aluno bigint	data_nascimento_aluno date	imei bigint	sexo_aluno character (1)
1	20162MAT003	Leonardo Ribeiro	28260389231	1997-01-23	38207270	M
2	20171BSI012	Aline Dias	69558893978	1994-07-18	88865730	F
3	20142AUR222	Manuela Rocha	61615263101	1983-10-10	93262428	F
4	20142MEC188	Martim Ribeiro	43979219542	1998-07-04	29327417	M
5	20182FIS237	Matilde Ferreira	66649022306	1995-08-31	48411444	F
6	20182LET914	Felipe Ribeiro	16587024769	1987-12-31	64011518	M
7	20171AUT552	Gustavo Santos	47600515547	1991-06-08	32484741	M
8	20181FIS015	Sofia Costa	12821736770	1989-01-02	74182071	F
9	20162QUI041	Lucas Almeida	32650442115	1991-09-29	48764603	M
10	20151ADM873	Camila Cavalcanti	30377170178	1987-09-28	97955802	F

- Algumas observações:
- Os procedimentos acima foram realizados pausadamente, e dividido em algumas partes. Se achar mais adequado pode ser carregado todas informações do bkp.txt em uma única vez e todo código vai funcionar;
- O procedimento de SELECT da pag 7 foi realizado sobre a tabela ALUNO, mas pode ser realizado em qualquer tabela.