

pg pgAdmin 4 x PostgreSQL: Documentation: 12: x | Lab Sheet 3.pdf x | +

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pgAdmin File Object Tools Help

Browser Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@PostgreSQL 12 \*

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Query Editor Query History Scratch Pad

```
115 CONSTRAINT INVOLVED_IN_MASTER_fkey FOREIGN KEY (Master_Id )  
116 REFERENCES public.MASTER (Master_Id )  
117  
118 );  
119  
120 DROP TABLE IF EXISTS TAKES_TRAINING;  
121 CREATE TABLE TAKES_TRAINING  
122 (  
123 Training_Id numeric(4) NOT NULL,  
124 Minion_Id numeric(4) NOT NULL,  
125 CONSTRAINT TAKES_TRAINING_pkey PRIMARY KEY ( Training_Id,Minion_Id ),  
126 CONSTRAINT TAKES_TRAINING_TRAINING_fkey FOREIGN KEY (Training_Id )  
127 REFERENCES public.TRAINING (TRAINING_Id ),  
128 CONSTRAINT TAKES_TRAINING_MINION_fkey FOREIGN KEY (Minion_Id )  
129 REFERENCES public.MINION (Minion_Id )  
130  
131 );  
132
```

Data Output Explain Messages Notifications

NOTICE: table "master" does not exist, skipping  
NOTICE: table "currency" does not exist, skipping  
NOTICE: table "evilness" does not exist, skipping  
NOTICE: table "minion" does not exist, skipping  
NOTICE: table "training" does not exist, skipping  
NOTICE: table "mission" does not exist, skipping  
NOTICE: table "payment" does not exist, skipping  
NOTICE: table "involved\_in" does not exist, skipping  
NOTICE: table "takes\_training" does not exist, skipping  
CREATE TABLE

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

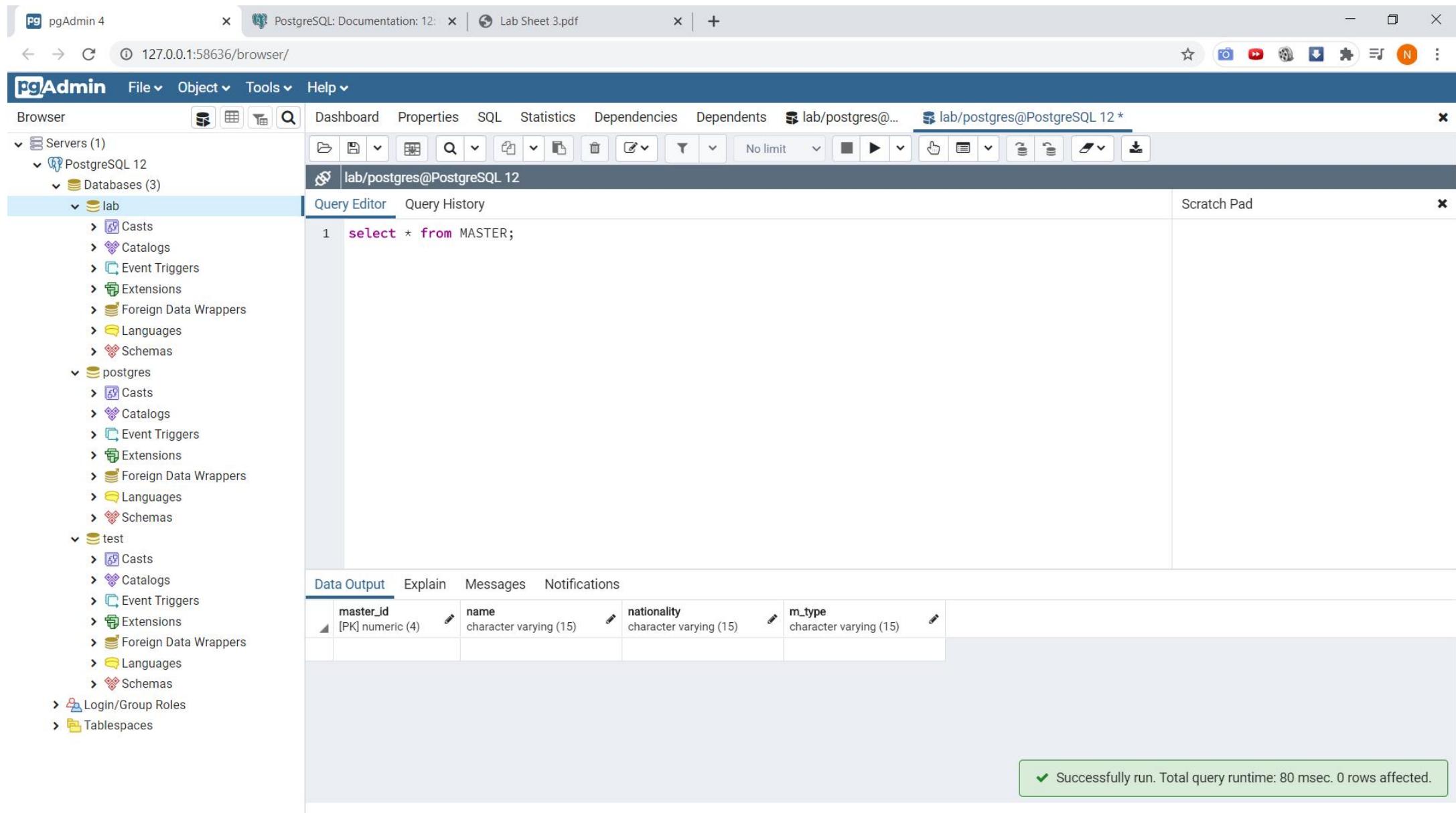
Query Editor Query History

```
1 select * from MASTER;
```

Data Output Explain Messages Notifications

master_id	[PK] numeric (4)	name	nationality	m_type
		character varying (15)	character varying (15)	character varying (15)

✓ Successfully run. Total query runtime: 80 msec. 0 rows affected.



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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab

- Casts
- Catalogs
- Event Triggers
- Extensions
- Foreign Data Wrappers
- Languages
- Schemas

postgres

- Casts
- Catalogs
- Event Triggers
- Extensions
- Foreign Data Wrappers
- Languages
- Schemas

test

- Casts
- Catalogs
- Event Triggers
- Extensions
- Foreign Data Wrappers
- Languages
- Schemas

Login/Group Roles Tablespace

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 INSERT INTO MASTER(
2 Master_Id, Name, M_Type, Nationality)
3 VALUES
4 (101, 'Adolf Hitler', 'person', 'Germany'),
5 (102, 'Guru', 'cartoon', 'USA'),
6 (103, 'Frankenstein', 'fictional', 'England'),
7 (104, 'Ivan Dracula', 'fictional', 'Russia'),
8 (105, 'Osama', 'person', 'Saudi Arabia'),
9 (106, 'Nero', 'cartoon', 'Europe'),
10 (107, 'Mojo Jojo', 'cartoon', 'USA'),
11 (108, 'Loki', 'fictional', 'USA'),
12 (109, 'Lex Luthor', 'fictional', 'USA'),
13 (110, 'Megatron', 'cartoon', 'Japan')
14 ;
15 SELECT * FROM MASTER;
```

Data Output Explain Messages Notifications

	master_id [PK] numeric (4)	name character varying (15)	nationality character varying (15)	m_type character varying (15)
1	101	Adolf Hitler	Germany	person
2	102	Guru	USA	cartoon
3	103	Frankenstein	England	fictional
4	104	Ivan Dracula	Russia	fictional
5	105	Osama	Saudi Arabia	person
6	106	Nero	Europe	cartoon
7	107	Mojo Jojo	USA	cartoon
8	108	Loki	USA	fictional
9	109	Lex Luthor	USA	fictional

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

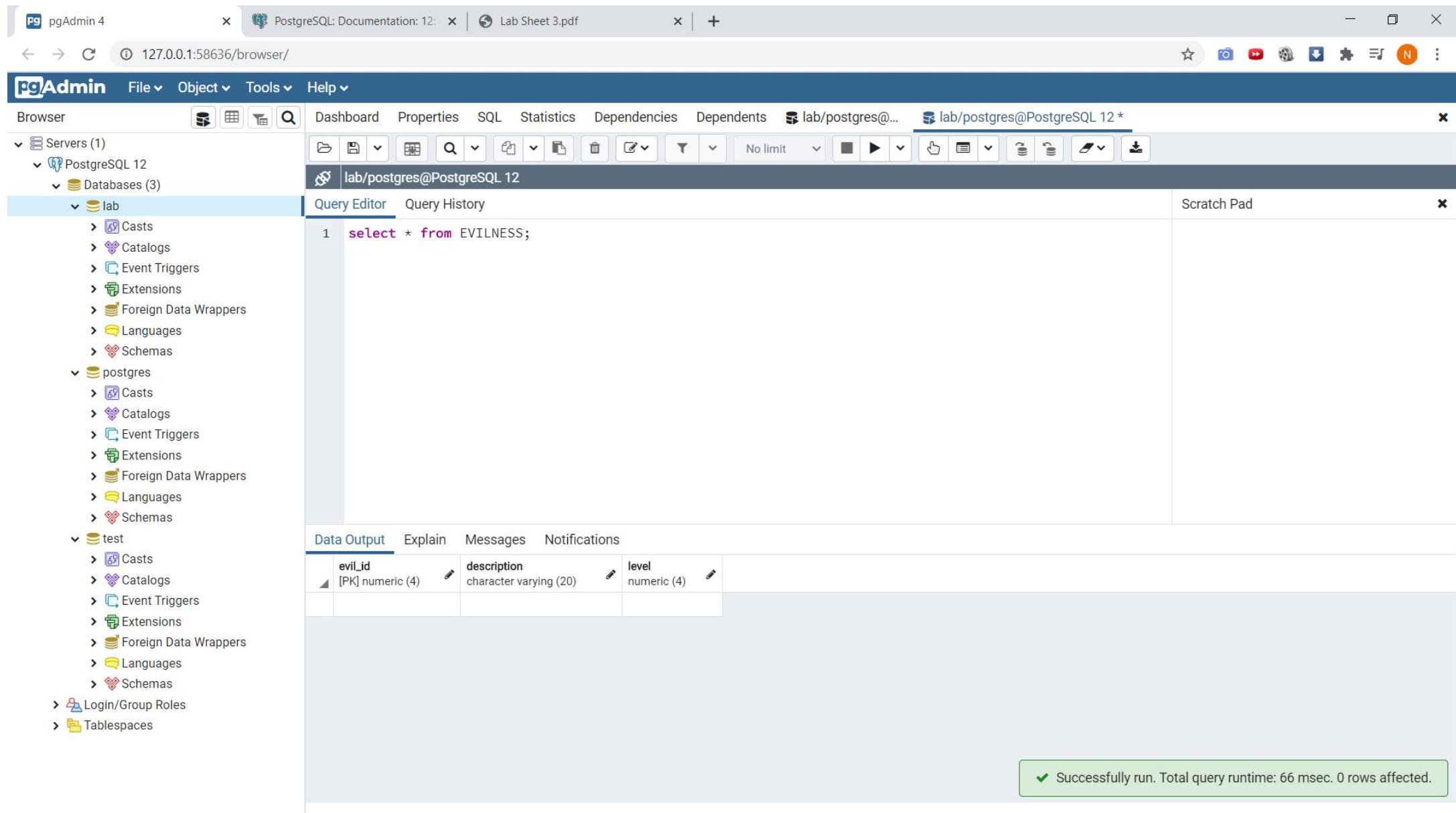
Query Editor Query History

```
1 select * from EVILNESS;
```

Data Output Explain Messages Notifications

evil_id	[PK] numeric (4)	description	character varying (20)	level	numeric (4)

✓ Successfully run. Total query runtime: 66 msec. 0 rows affected.



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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 INSERT INTO EVILNESS(Evil_Id, Level, Description)
2 VALUES
3 (201, 1, 'Sneeze'),
4 (202, 2, 'Itch'),
5 (203, 3, 'Tickle'),
6 (204, 4, 'Yawn');
7 select * from EVILNESS;
```

Data Output Explain Messages Notifications

evil_id	description	level
201	Sneeze	1
202	Itch	2
203	Tickle	3
204	Yawn	4

✓ Successfully run. Total query runtime: 62 msec. 4 rows affected.

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pgAdmin File Object Tools Help

Browser

Servers (1)  
PostgreSQL 12  
Databases (3)  
lab  
postgres  
test  
Login/Group Roles  
Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Query Editor Query History

1 `select * from MINION;`

Data Output Explain Messages Notifications

	minion_id	name	gender	age	nationality	hiring_charge	evilness
	[PK] numeric (4)	character varying (20)	character varying (2)	numeric (2)	character varying (20)	numeric (6)	numeric (4)

✓ Successfully run. Total query runtime: 63 msec. 0 rows affected.

This screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure under 'Servers (1)'. The 'lab' database is selected, showing its contents: Casts, Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, and Schemas. Below it are 'postgres' and 'test' databases with similar structures. The top navigation bar includes 'File', 'Object', 'Tools', and 'Help' menus. The main window has tabs for 'Query Editor' and 'Query History', with 'Query Editor' currently active. A query is entered in the editor: 'select \* from MINION;'. The results pane shows a table definition for the 'MINION' table with columns: minion\_id (PK numeric(4)), name (character varying(20)), gender (character varying(2)), age (numeric(2)), nationality (character varying(20)), hiring\_charge (numeric(6)), and evilness (numeric(4)). A success message at the bottom right indicates the query was run successfully with a total runtime of 63 msec and 0 rows affected.

pg pgAdmin 4 x PostgreSQL: Documentation: 12: x | Lab Sheet 3.pdf x +

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Schemas postgres Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Schemas test Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Schemas Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 INSERT INTO MINION(Minion_Id, Evilness, Name, Gender, Age, Nationality, Hiring_Charge)
2 VALUES
3 (301, 203, 'Stuart', 'M', 6, 'USA', 100),
4 (302, 204, 'Bob', 'M', 8, 'Japan', 140),
5 (303, 202, 'Kevin', 'M', 4, 'India', 75),
6 (304, 204, 'Dave', 'M', 9, 'Russia', 120),
7 (305, 202, 'Mark', 'M', 5, 'Germany', 80),
8 (306, 201, 'Phil', 'M', 10, 'USA', 90),
9 (307, 204, 'Liza', 'F', 3, 'Japan', 150),
10 (308, 203, 'Mike', 'M', 6, 'India', 90),
11 (309, 202, 'Paul', 'M', 9, 'Russia', 85),
12 (310, 204, 'Lance', 'F', 6, 'England', 70)
```

Data Output Explain Messages Notifications

	minion_id [PK] numeric (4)	name character varying (20)	gender character varying (2)	age numeric (2)	nationality character varying (20)	hiring_charge numeric (6)	evilness numeric (4)
1	301	Stuart	M	6	USA	100	203
2	302	Bob	M	8	Japan	140	204
3	303	Kevin	M	4	India	75	202
4	304	Dave	M	9	Russia	120	204
5	305	Mark	M	5	Germany	80	202
6	306	Phil	M	10	USA	90	201
7	307	Liza	F	3	Japan	150	204
8	308	Mike	M	6	India	90	203
9	309	Paul	M	9	Russia	85	202
10	310	Lance	F	6	England	70	204
11	311	Zugi	F	9	India	90	202
12	312	Steve	M	7	USA	110	203

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pgAdmin File Object Tools Help

Browser

Servers (1)  
PostgreSQL 12  
Databases (3)  
lab  
postgres  
test  
Login/Group Roles  
Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

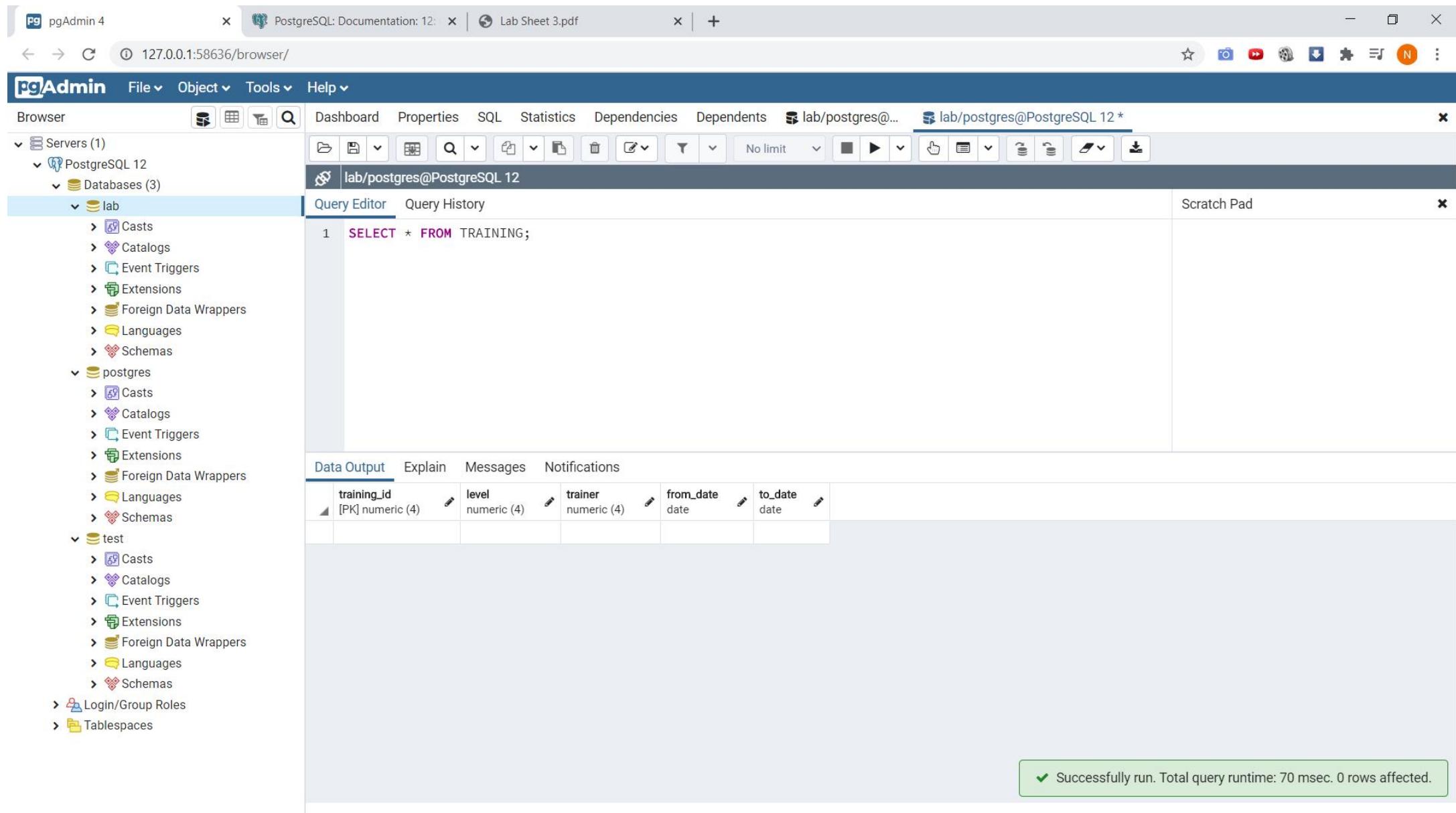
Query Editor Query History

1 SELECT \* FROM TRAINING;

Data Output Explain Messages Notifications

training_id	[PK] numeric (4)	level	numeric (4)	trainer	numeric (4)	from_date	date	to_date	date

✓ Successfully run. Total query runtime: 70 msec. 0 rows affected.



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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

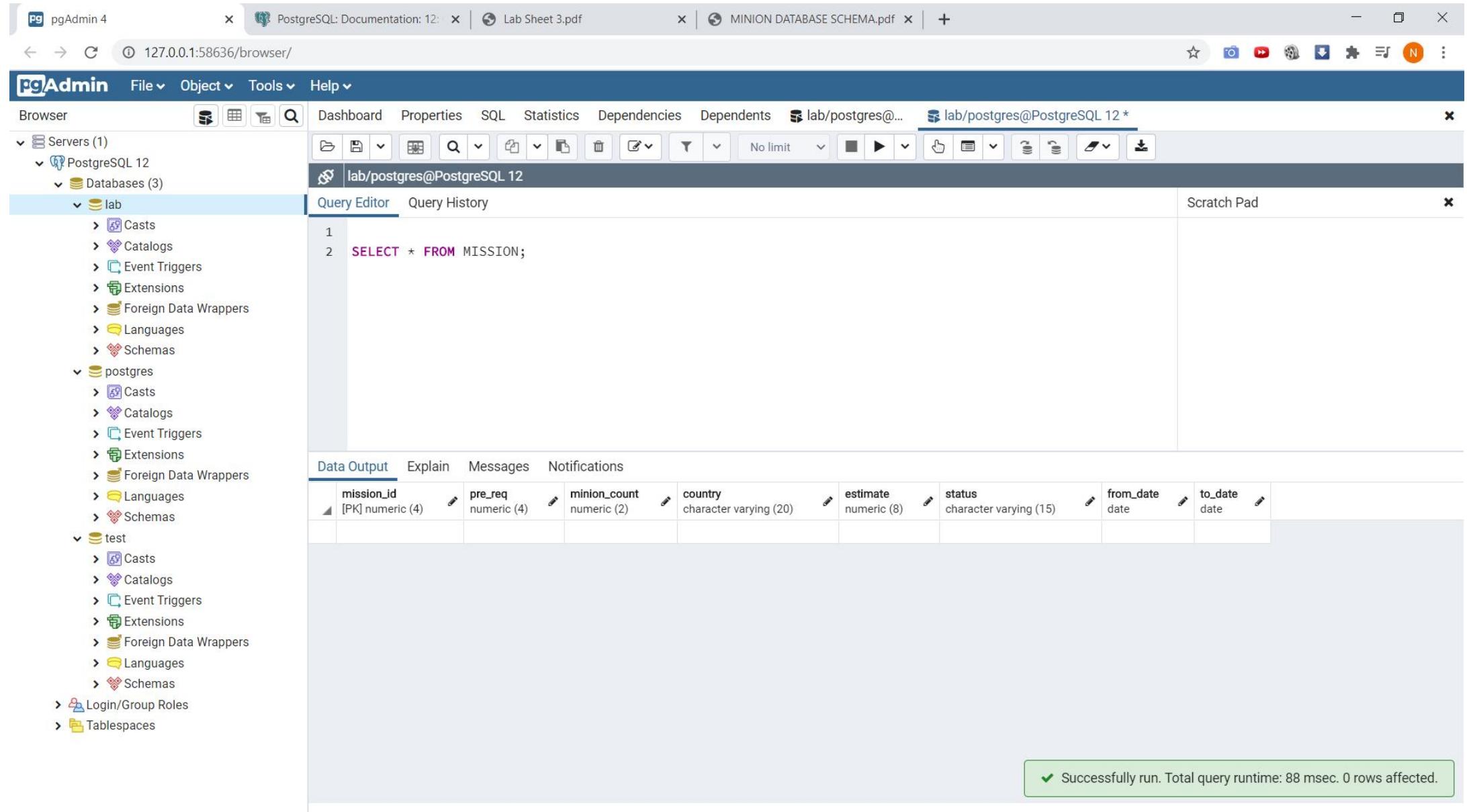
Query Editor Query History

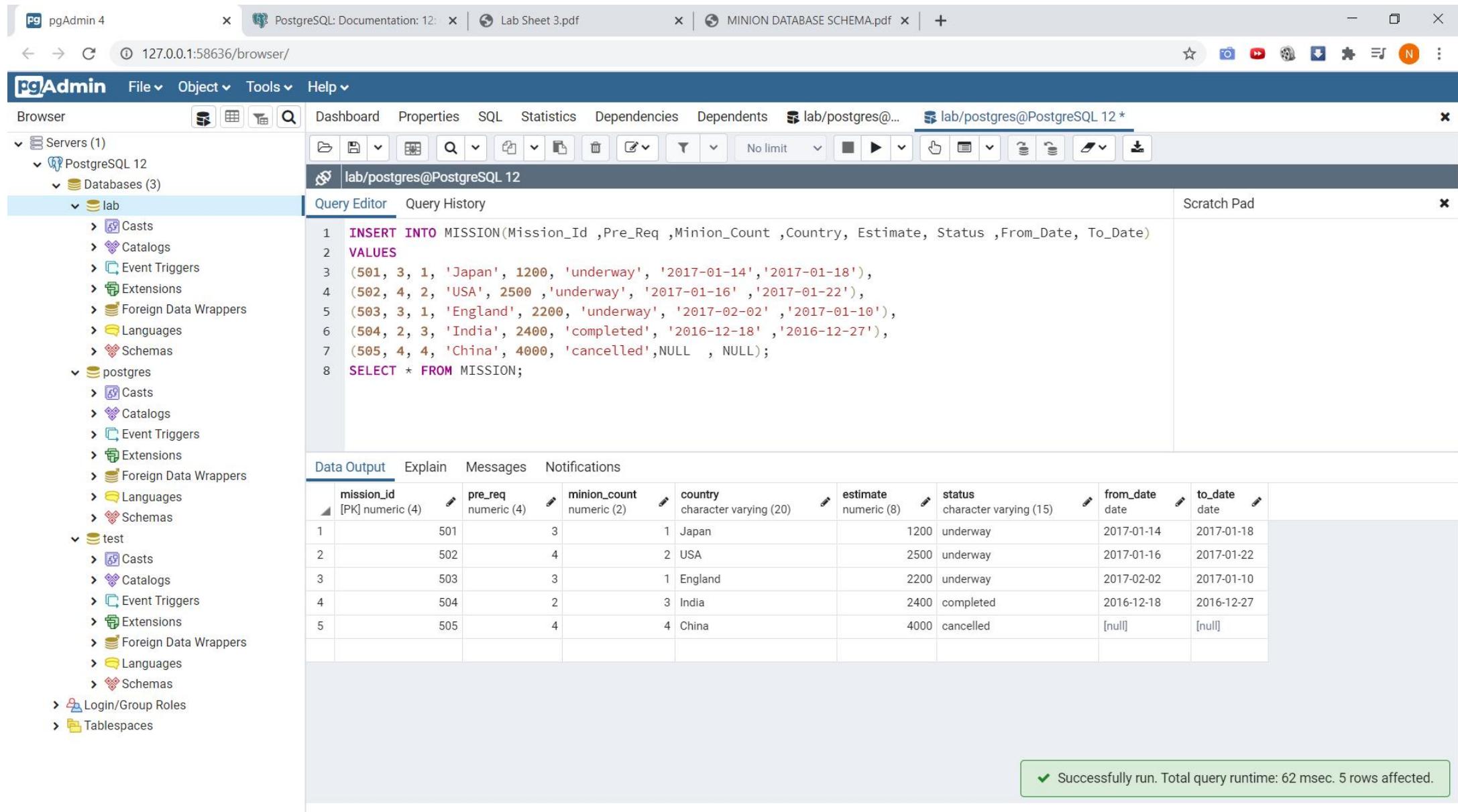
```
1 INSERT INTO TRAINING(Training_Id, Level ,Trainer, From_Date, To_Date)
2 VALUES
3 (401 ,4 ,304 , '2017-01-05' , '2017-01-15'),
4 (402 ,3 ,312 , '2017-01-07' , '2017-01-10'),
5 (403 ,2 ,302 , '2017-01-09' , '2017-01-24'),
6 (404 ,1 ,308 , '2017-01-11' , '2017-01-15');
7 SELECT * FROM TRAINING;
```

Data Output Explain Messages Notifications

	training_id [PK] numeric (4)	level numeric (4)	trainer numeric (4)	from_date date	to_date date
1	401	4	304	2017-01-05	2017-01-15
2	402	3	312	2017-01-07	2017-01-10
3	403	2	302	2017-01-09	2017-01-24
4	404	1	308	2017-01-11	2017-01-15

✓ Successfully run. Total query runtime: 63 msec. 4 rows affected.





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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

1    select \* from INVOLVED\_IN;

Data Output    Explain    Messages    Notifications

mission_id [PK] numeric (4)	minion_id [PK] numeric (4)	master_id numeric (4)

✓ Successfully run. Total query runtime: 66 msec. 0 rows affected.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays a tree view of databases: Servers (1), PostgreSQL 12, Databases (3) containing lab, postgres, and test, and two system roles. The main area shows the Query Editor tab with the query 'select \* from INVOLVED\_IN;'. Below the query is a table definition for the 'INVOLVED\_IN' table with columns mission\_id, minion\_id, and master\_id. A success message at the bottom indicates the query was run successfully with a total runtime of 66 msec and 0 rows affected.

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 insert into INVOLVED_IN (Minion_Id, Mission_Id, Master_Id)
2 values
3 (302, 501, 110),
4 (301, 502, 107),
5 (306, 502, 107),
6 (310, 503, 103),
7 (303, 504, 104),
8 (308, 504, 104),
9 (311, 504, 104);
10 select * from INVOLVED_IN;
```

Data Output Explain Messages Notifications

	mission_id [PK] numeric (4)	minion_id [PK] numeric (4)	master_id numeric (4)
1	501	302	110
2	502	301	107
3	502	306	107
4	503	310	103
5	504	303	104
6	504	308	104
7	504	311	104

✓ Successfully run. Total query runtime: 64 msec. 7 rows affected.

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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

lab/postgres@PostgreSQL 12

1 select \* from TAKES\_TRAINING;

Data Output    Explain    Messages    Notifications

training_id	minion_id
[PK] numeric (4)	[PK] numeric (4)

✓ Successfully run. Total query runtime: 70 msec. 0 rows affected.

The screenshot displays the pgAdmin 4 interface. On the left, the 'Browser' pane shows a tree structure of databases: 'Servers (1)' under 'PostgreSQL 12', 'Databases (3)' under 'PostgreSQL 12' (including 'lab', 'postgres', and 'test'), and 'Login/Group Roles' and 'Tablespaces'. The 'lab' database is currently selected. The main workspace contains a 'Query Editor' tab with the query 'select \* from TAKES\_TRAINING;'. Below the query editor is a table with two columns: 'training\_id' and 'minion\_id', both of which are primary keys (PK) of type numeric(4). At the bottom right of the workspace, a green success message states 'Successfully run. Total query runtime: 70 msec. 0 rows affected.' The top navigation bar includes tabs for 'File', 'Object', 'Tools', and 'Help', along with a search bar and various icons.

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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

lab/postgres@PostgreSQL 12

No limit

Query Editor

```
1 insert into TAKES_TRAINING(Training_Id, Minion_Id)
2 values
3 (402, 303),
4 (401, 301),
5 (403, 306),
6 (402, 311);
7 select * from TAKES_TRAINING;
```

Data Output    Explain    Messages    Notifications

training_id [PK] numeric (4)	minion_id [PK] numeric (4)

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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

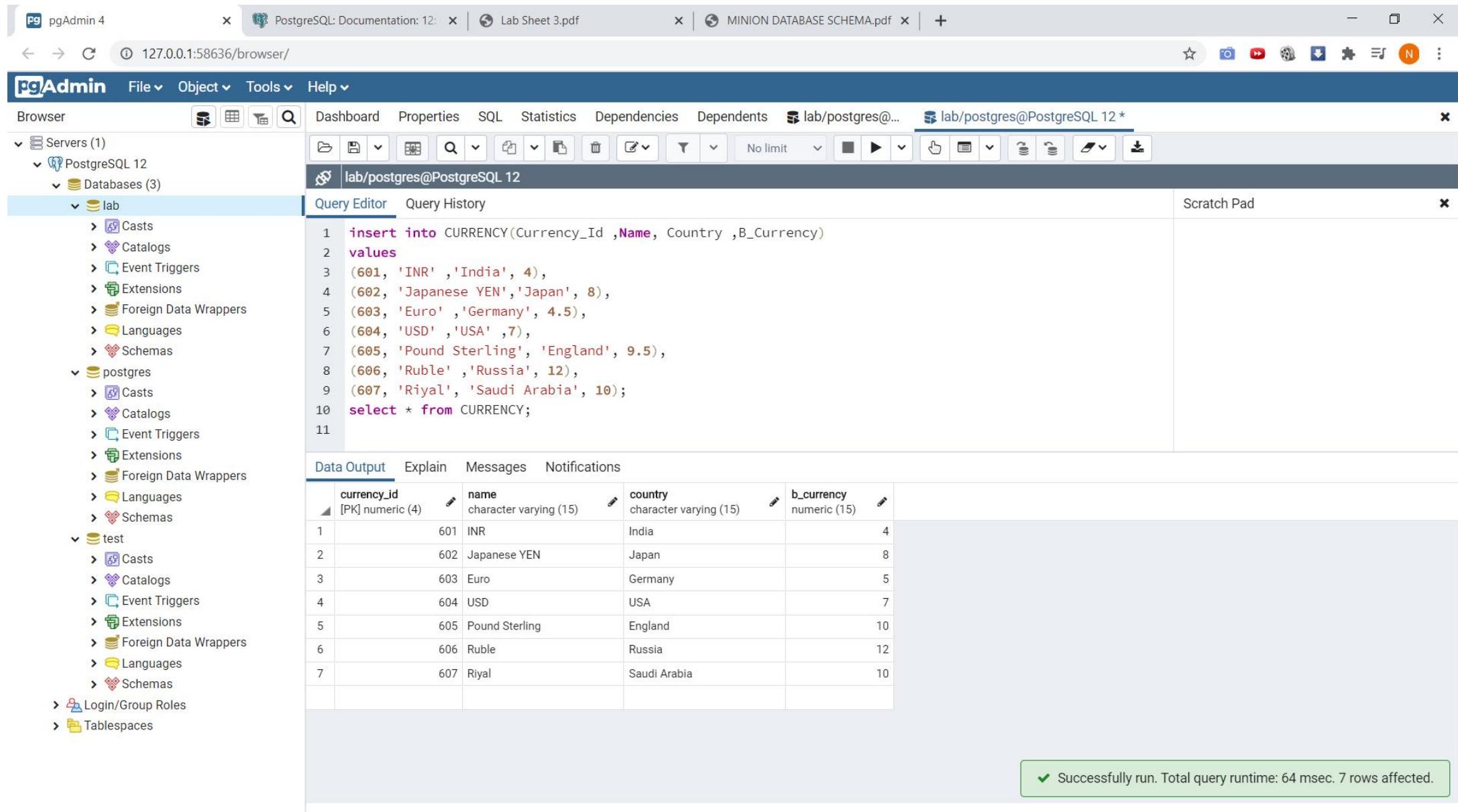
1 select \* from CURRENCY;

Data Output    Explain    Messages    Notifications

currency_id	[PK] numeric (4)	name	character varying (15)	country	character varying (15)	b_currency	numeric (15)

✓ Successfully run. Total query runtime: 89 msec. 0 rows affected.

The screenshot displays the pgAdmin 4 interface. On the left, the 'Browser' panel lists 'Servers (1)' containing 'PostgreSQL 12' and 'Databases (3)' including 'lab', 'postgres', and 'test'. The 'lab' database is currently selected. The main workspace contains a 'Query Editor' tab with the query 'select \* from CURRENCY;'. Below the editor is a 'Data Output' tab showing the structure of the 'CURRENCY' table with columns: currency\_id [PK] numeric (4), name character varying (15), country character varying (15), and b\_currency numeric (15). A green success message at the bottom right states 'Successfully run. Total query runtime: 89 msec. 0 rows affected.'



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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

lab/postgres@PostgreSQL 12

No limit

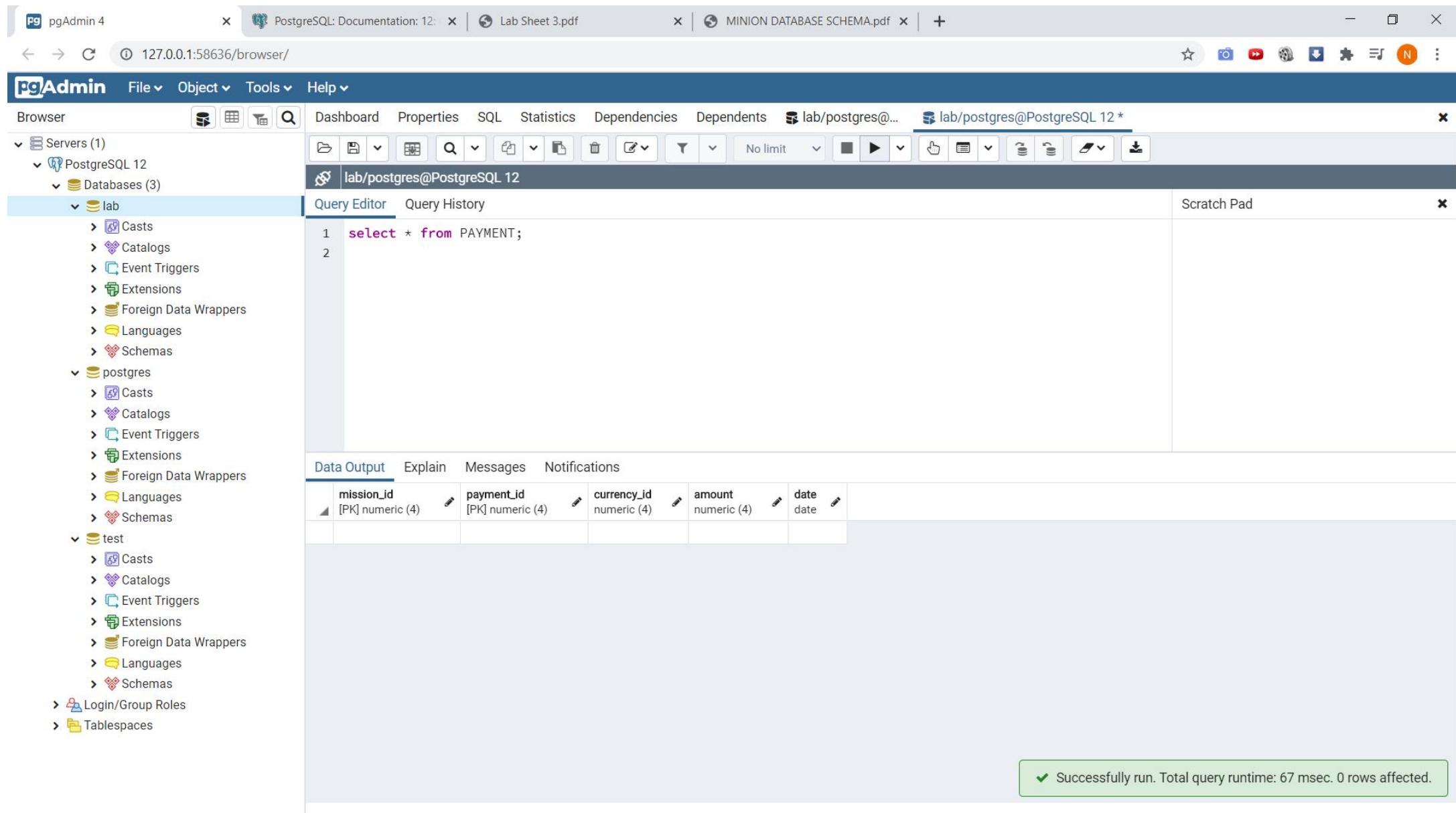
1 select \* from PAYMENT;

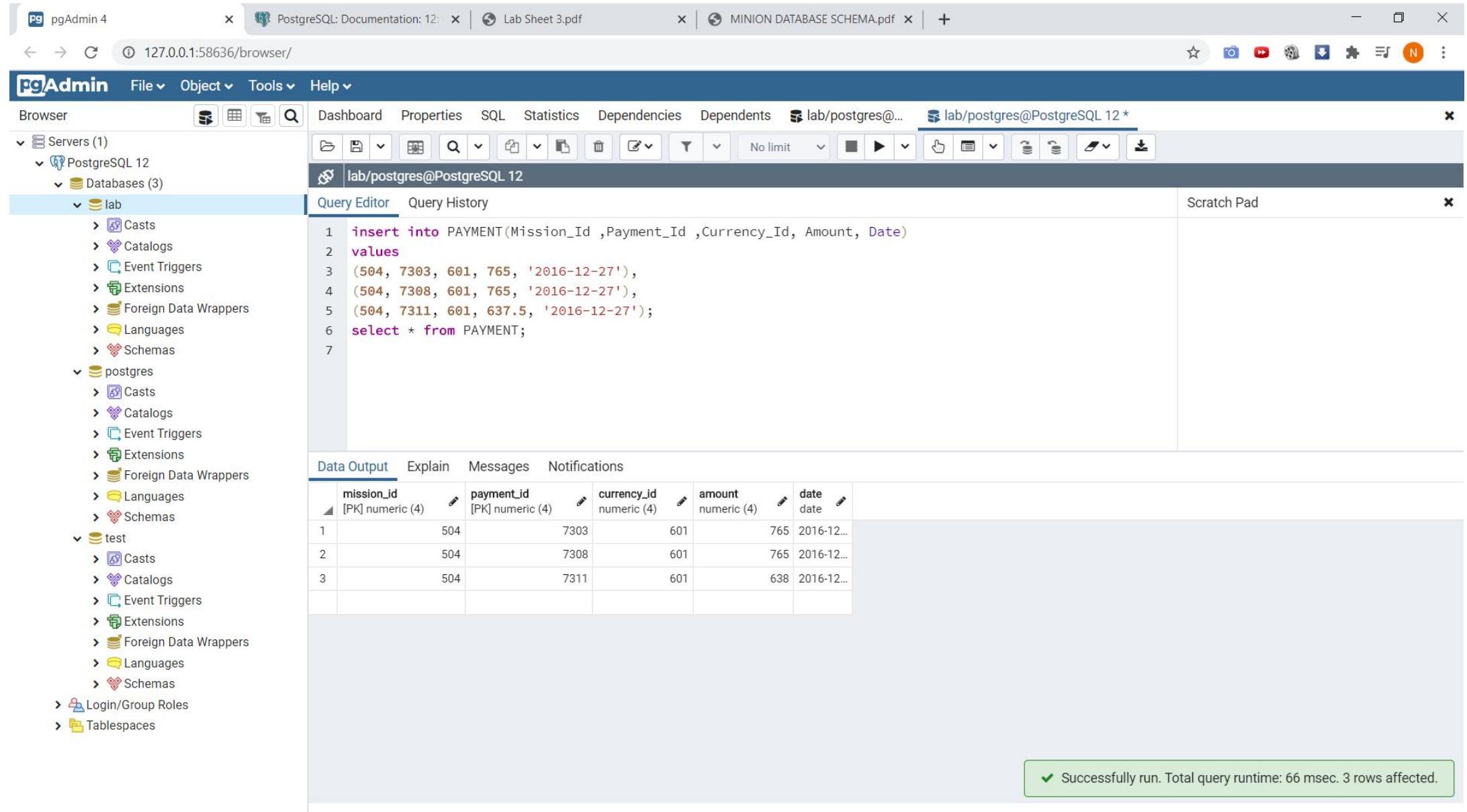
2

Data Output    Explain    Messages    Notifications

mission_id [PK] numeric (4)	payment_id [PK] numeric (4)	currency_id numeric (4)	amount numeric (4)	date date

✓ Successfully run. Total query runtime: 67 msec. 0 rows affected.





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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Query Editor Query History

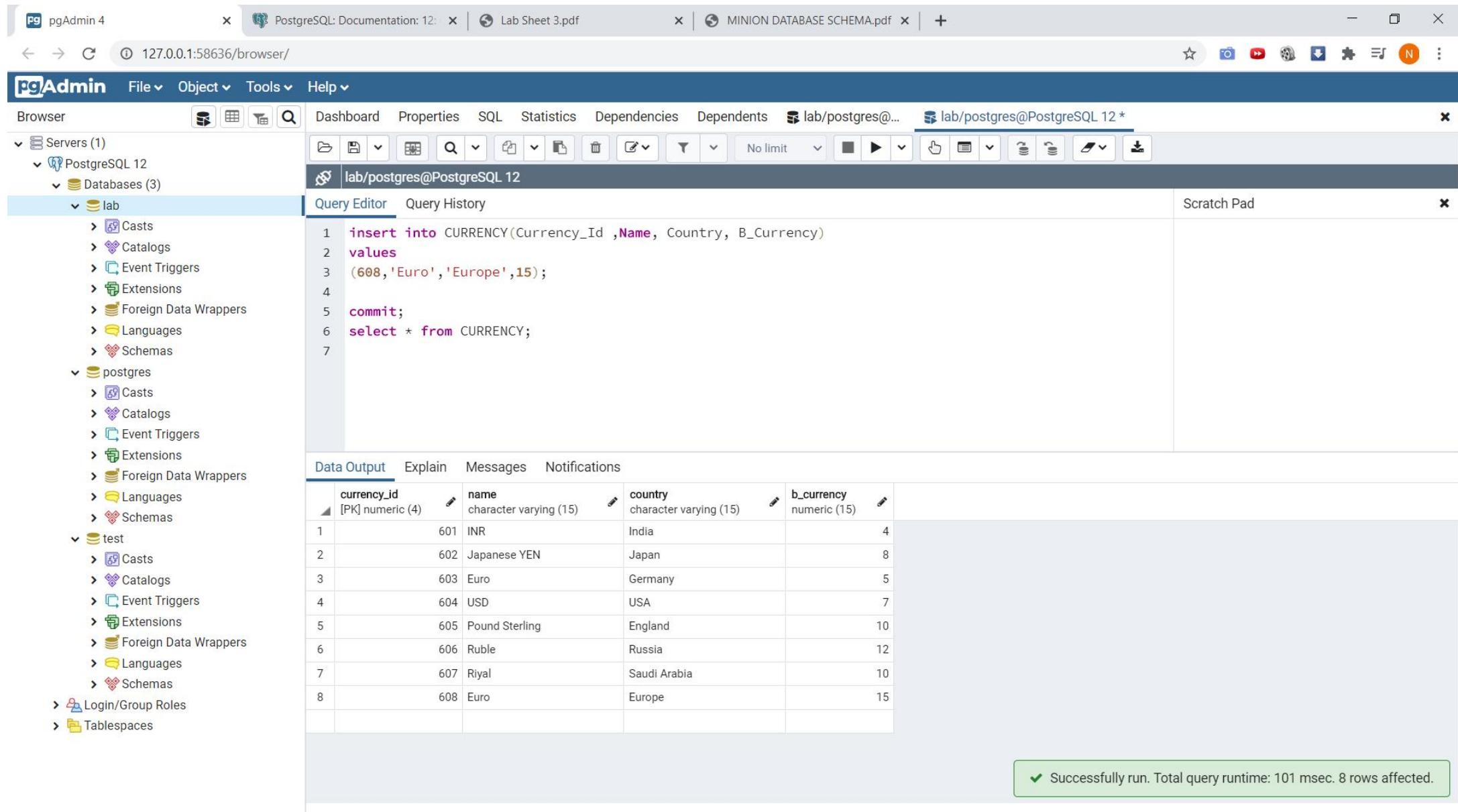
```
1 begin;
2 select * from CURRENCY;
```

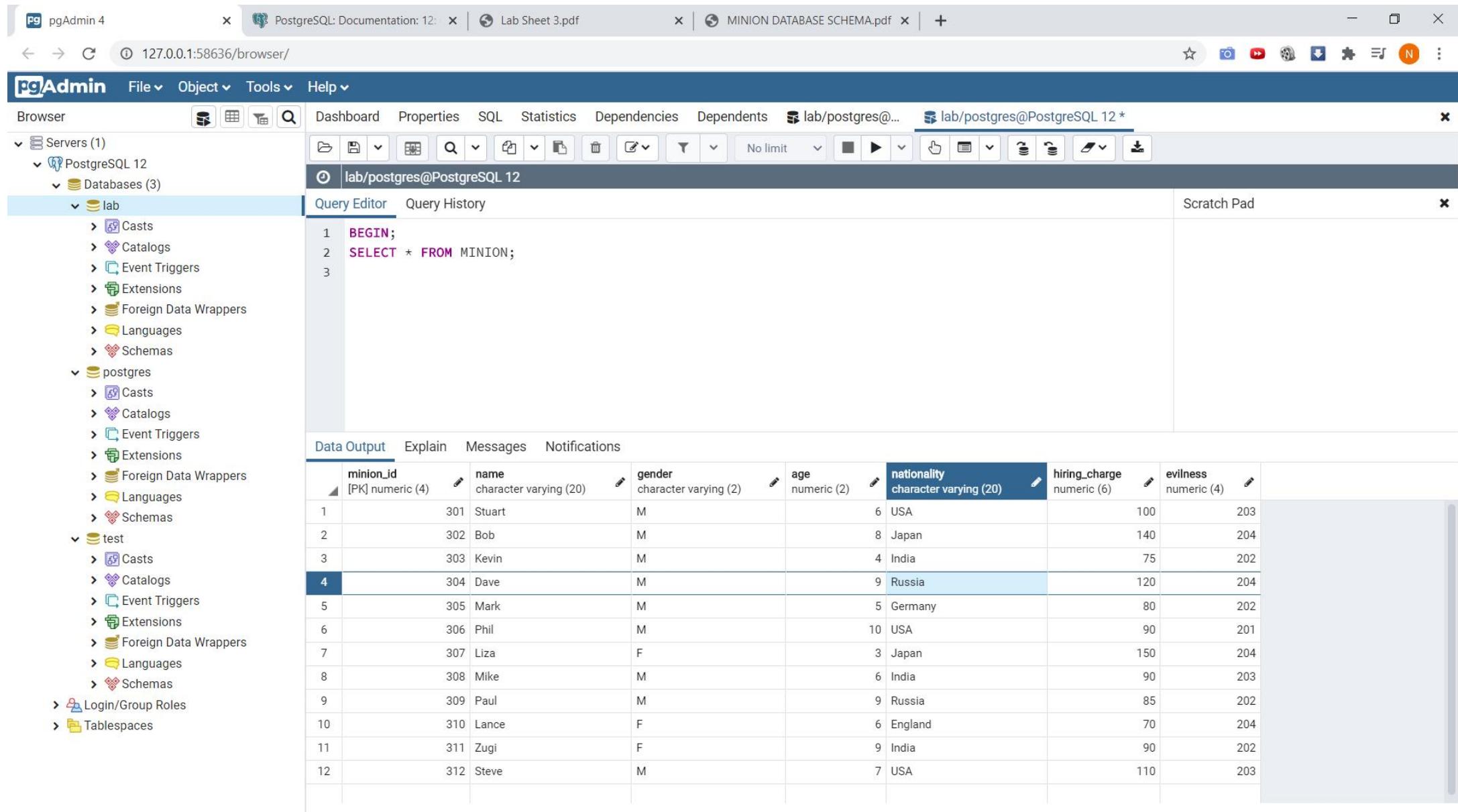
Scratch Pad

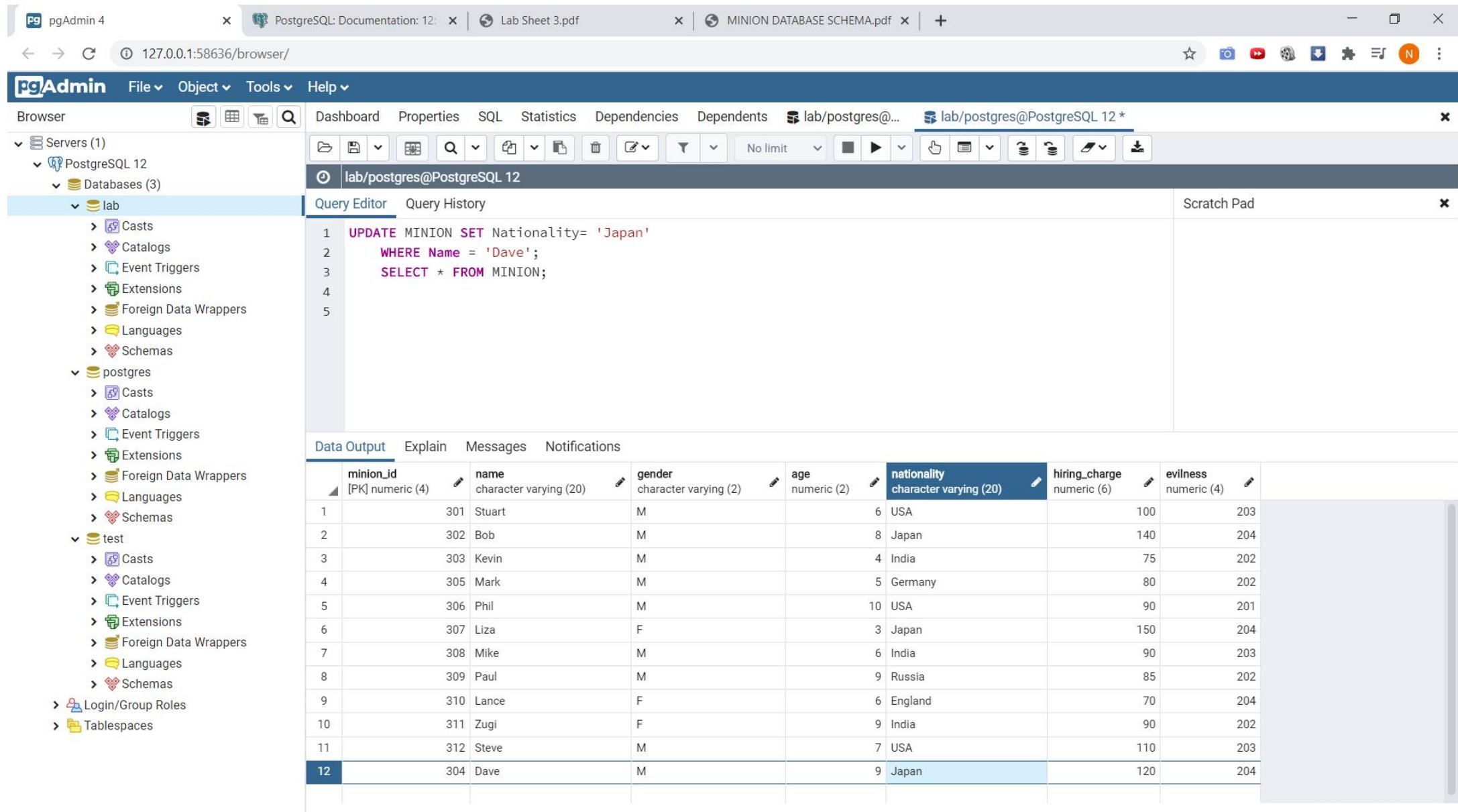
Data Output Explain Messages Notifications

	currency_id [PK] numeric (4)	name character varying (15)	country character varying (15)	b_currency numeric (15)
1	601	INR	India	4
2	602	Japanese YEN	Japan	8
3	603	Euro	Germany	5
4	604	USD	USA	7
5	605	Pound Sterling	England	10
6	606	Ruble	Russia	12
7	607	Riyal	Saudi Arabia	10

✓ Successfully run. Total query runtime: 63 msec. 7 rows affected.







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pgAdmin File Object Tools Help

Browser

Servers (1)  
PostgreSQL 12  
Databases (3)  
lab  
postgres  
test  
Login/Group Roles  
Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Query Editor Query History

1 SAVEPOINT A;  
2  
3

Scratch Pad

Query Editor Query History

Data Output Explain Messages Notifications

SAVEPOINT

Query returned successfully in 70 msec.

✓ Query returned successfully in 70 msec.

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 SELECT * FROM TRAINING;
```

Data Output Explain Messages Notifications

training_id	level	trainer	from_date	to_date
[PK] numeric (4)	numeric (4)	numeric (4)	date	date
1	401	4	304	2017-01-05
2	402	3	312	2017-01-07
3	403	2	302	2017-01-09
4	404	1	308	2017-01-11
				2017-01-15
				2017-01-10
				2017-01-24

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Query Editor Query History

```
1 UPDATE TRAINING SET To_Date= '2017-01-23'
2 WHERE Level = 4;
3 SELECT * FROM TRAINING;
```

Scratch Pad

Data Output Explain Messages Notifications

training_id	level	trainer	from_date	to_date
[PK] numeric (4)	numeric (4)	numeric (4)	date	date
1	402	3	312	2017-01-07
2	403	2	302	2017-01-09
3	404	1	308	2017-01-11
4	401	4	304	2017-01-05

✓ Successfully run. Total query runtime: 65 msec. 4 rows affected.

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pgAdmin File Object Tools Help

Browser    Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Servers (1)    PostgreSQL 12    Databases (3)

- lab
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wrappers
  - Languages
  - Schemas
- postgres
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wrappers
  - Languages
  - Schemas
- test
  - Casts
  - Catalogs
  - Event Triggers
  - Extensions
  - Foreign Data Wrappers
  - Languages
  - Schemas

Query Editor    Query History    Scratch Pad

1 SAVEPOINT B;

2

3

Data Output    Explain    Messages    Notifications

SAVEPOINT

Query returned successfully in 52 msec.

✓ Query returned successfully in 52 msec.

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Query Editor Query History Scratch Pad

1 SELECT \* FROM MISSION;

2

3

Data Output Explain Messages Notifications

mission_id	pre_req	minion_count	country	estimate	status	from_date	to_date
[PK] numeric (4)	numeric (4)	numeric (2)	character varying (20)	numeric (8)	character varying (15)	date	date
1	501	3	Japan	1200	underway	2017-01-14	2017-01-18
2	502	4	USA	2500	underway	2017-01-16	2017-01-22
3	503	3	England	2200	underway	2017-02-02	2017-01-10
4	504	2	India	2400	completed	2016-12-18	2016-12-27
5	505	4	China	4000	cancelled	[null]	[null]

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Query Editor Query History

```
1 UPDATE MISSION
2 SET Status = 'cancelled'
3 WHERE Mission_Id=(select Mission_Id from INVOLVED_IN where Master_Id=(select Master_Id from MASTER where
4 SELECT * FROM MISSION;
```

Scratch Pad

Data Output Explain Messages Notifications

mission_id	pre_req	minion_count	country	estimate	status	from_date	to_date
[PK] numeric (4)	numeric (4)	numeric (2)	character varying (20)	numeric (8)	character varying (15)	date	date
1	501	3	Japan	1200	underway	2017-01-14	2017-01-18
2	502	4	USA	2500	underway	2017-01-16	2017-01-22
3	504	2	India	2400	completed	2016-12-18	2016-12-27
4	505	4	China	4000	cancelled	[null]	[null]
5	503	3	England	2200	cancelled	2017-02-02	2017-01-10

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 CREATE TABLE COUNTRY
2 (
3     Country_Code numeric(4) NOT NULL,
4     Country_Name varchar(15) NOT NULL UNIQUE,
5
6
7     CONSTRAINT Country_pkey PRIMARY KEY (Country_Code)
8
9 );
10
11
```

Data Output Explain Messages Notifications

CREATE TABLE

Query returned successfully in 72 msec.

✓ Query returned successfully in 72 msec.

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Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

lab/postgres@PostgreSQL 12

1 SELECT \* FROM COUNTRY;

Data Output    Explain    Messages    Notifications

country_code	country_name
[PK] numeric (4)	character varying (15)

✓ Successfully run. Total query runtime: 61 msec. 0 rows affected.

The screenshot shows the pgAdmin 4 interface. On the left is a tree view of the database structure under 'Servers (1)'. Under 'PostgreSQL 12' are 'Databases (3)': 'lab', 'postgres', and 'test'. The 'lab' database is selected. The main pane contains a 'Query Editor' tab with the following SQL code:

```
1 SELECT * FROM COUNTRY;
```

Below the query editor is a table titled 'Data Output' with two columns: 'country\_code' and 'country\_name'. The table has one row with the following values:

country_code	country_name
[PK] numeric (4)	character varying (15)

A green success message at the bottom right states: '✓ Successfully run. Total query runtime: 61 msec. 0 rows affected.'

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 INSERT INTO COUNTRY(Country_Code,Country_Name)
2 VALUES
3 (1,'India'),
4 (2,'Japan');
5 SELECT * FROM COUNTRY;
```

Data Output Explain Messages Notifications

country_code	country_name
1	India
2	Japan

✓ Successfully run. Total query runtime: 67 msec. 2 rows affected.

The screenshot shows the pgAdmin 4 interface. On the left is a tree view of database objects under 'Servers (1) PostgreSQL 12'. The 'lab' database is selected. In the main area, a query editor window titled 'lab/postgres@PostgreSQL 12' contains an SQL script. The script inserts two rows into the 'COUNTRY' table with codes 1 and 2 and names 'India' and 'Japan' respectively. It then selects all from the table. Below the query editor is a data output grid showing the results: two rows with country codes 1 and 2 and names India and Japan. A success message at the bottom right indicates the query was run successfully with a runtime of 67 msec and 2 rows affected.

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pgAdmin File Object Tools Help

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Servers (1)    PostgreSQL 12    Databases (3)    lab    postgres    test    Login/Group Roles    Tablespaces

Query Editor    Query History    Scratch Pad

1 SAVEPOINT C;  
2  
3  
4

Data Output    Explain    Messages    Notifications

SAVEPOINT

Query returned successfully in 50 msec.

✓ Query returned successfully in 50 msec.

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 DELETE FROM COUNTRY WHERE Country_Code=2;
2 SELECT * FROM COUNTRY;
```

Data Output Explain Messages Notifications

country_code	country_name
[PK] numeric (4)	character varying (15)
1	India

✓ Successfully run. Total query runtime: 61 msec. 1 rows affected.

The screenshot shows the pgAdmin 4 interface. On the left is the 'Browser' panel with a tree view of databases: 'Servers (1)' under 'PostgreSQL 12', 'Databases (3)' under 'PostgreSQL 12' (including 'lab', 'postgres', and 'test'), and 'Login/Group Roles' and 'Tablespaces'. The main area has tabs for 'Query Editor' (selected) and 'Query History'. The 'Query Editor' tab contains two SQL statements: 'DELETE FROM COUNTRY WHERE Country\_Code=2;' and 'SELECT \* FROM COUNTRY;'. Below the editor is a 'Data Output' tab showing a table with one row: country\_code (1) and country\_name (India). A status bar at the bottom right indicates the query was successfully run with a runtime of 61 msec and 1 row affected.

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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

lab/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1 rollback to savepoint c;
2 select * from COUNTRY;
```

Data Output Explain Messages Notifications

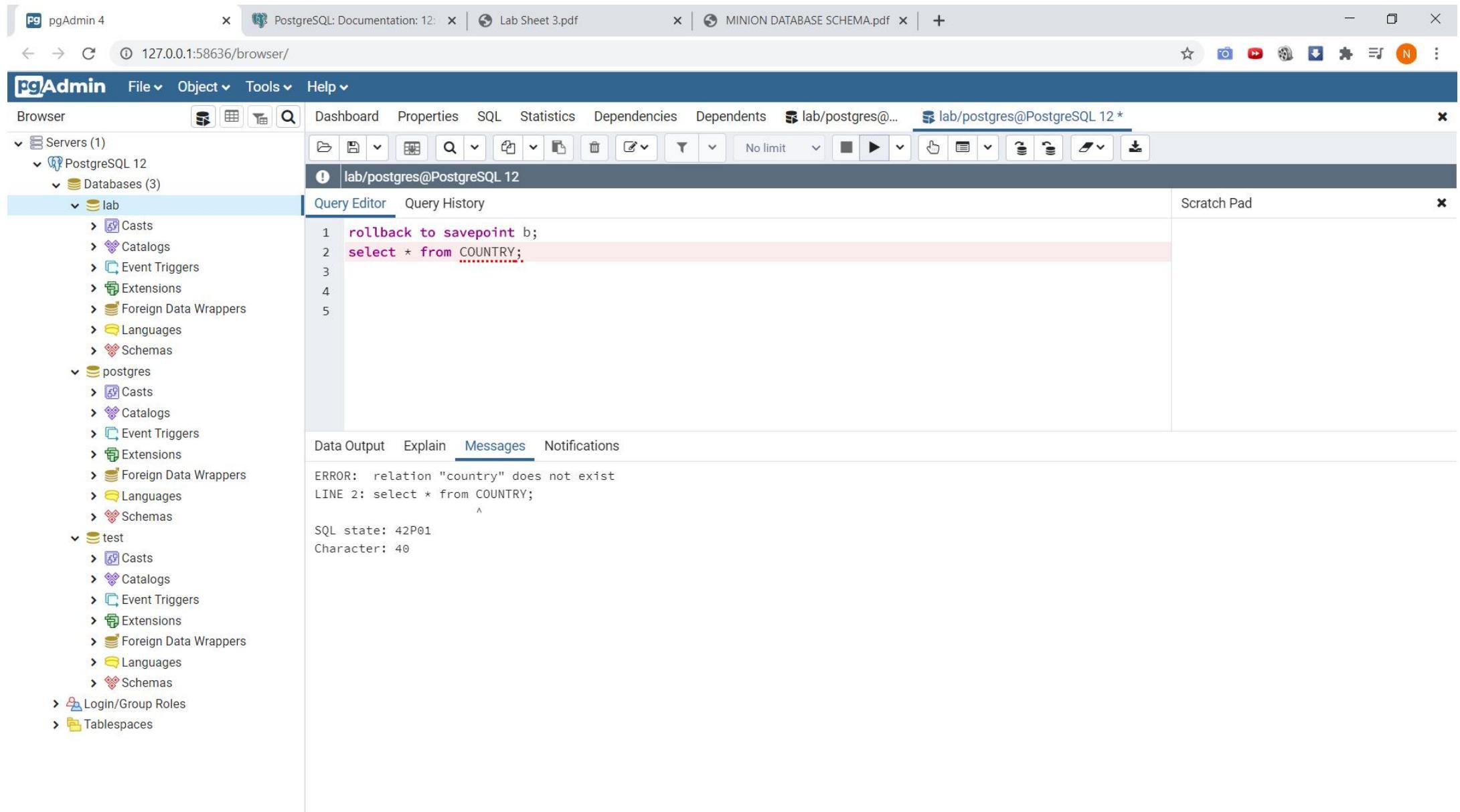
country_code	country_name
1	India
2	Japan

✓ Successfully run. Total query runtime: 63 msec. 2 rows affected.

The screenshot shows the pgAdmin 4 interface. On the left is the 'Browser' panel with a tree view of databases: 'Servers (1)' under 'PostgreSQL 12', 'Databases (3)' including 'lab', 'postgres', and 'test', and 'Login/Group Roles' and 'Tablespaces'. The main area has tabs for 'Query Editor' (selected) and 'Query History'. The 'Query Editor' tab contains a SQL command to rollback to a savepoint and select all from the 'COUNTRY' table. Below it is a 'Data Output' tab showing the results of the query as a table:

country_code	country_name
1	India
2	Japan

A green status bar at the bottom right indicates the query was successfully run with a runtime of 63 msec and 2 rows affected.



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pgAdmin File Object Tools Help

Servers (1) PostgreSQL 12 Databases (3) lab postgres test Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents lab/postgres@... lab/postgres@PostgreSQL 12 \*

Query Editor Query History Scratch Pad

lab/postgres@PostgreSQL 12

```
1 rollback to savepoint b;
2 select * from MISSION;
```

Data Output Explain Messages Notifications

mission_id	pre_req	minion_count	country	estimate	status	from_date	to_date
[PK] numeric (4)	numeric (4)	numeric (2)	character varying (20)	numeric (8)	character varying (15)	date	date
1	501	3	Japan	1200	underway	2017-01-14	2017-01-18
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3	503	3	England	2200	underway	2017-02-02	2017-01-10
4	504	2	India	2400	completed	2016-12-18	2016-12-27
5	505	4	China	4000	cancelled	[null]	[null]

✓ Successfully run. Total query r...