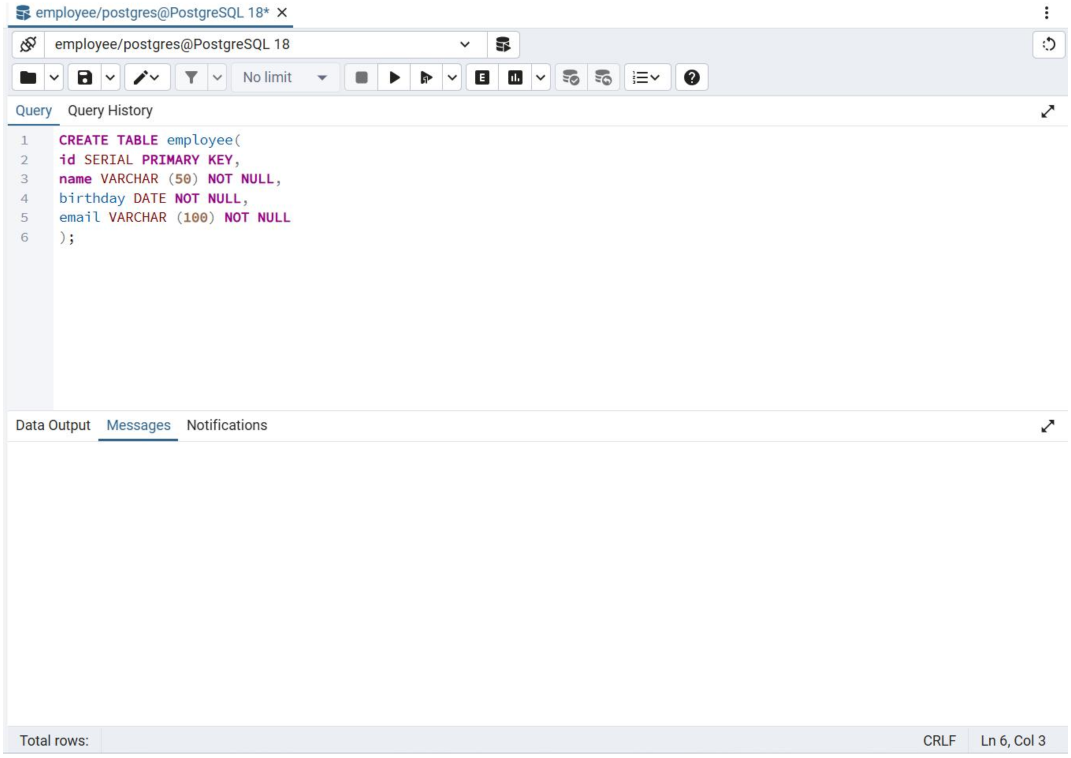
Assignment 8: DVDRental Queries

This assignment focuses on practicing SQL operations on a test database. The main tasks include creating an employee table with basic column information, inserting sample data generated using the Mockaroo service, updating records based on different columns, and deleting specific rows from the table. These exercises help improve understanding of **CREATE, INSERT, UPDATE, DELETE, and working with database records**.

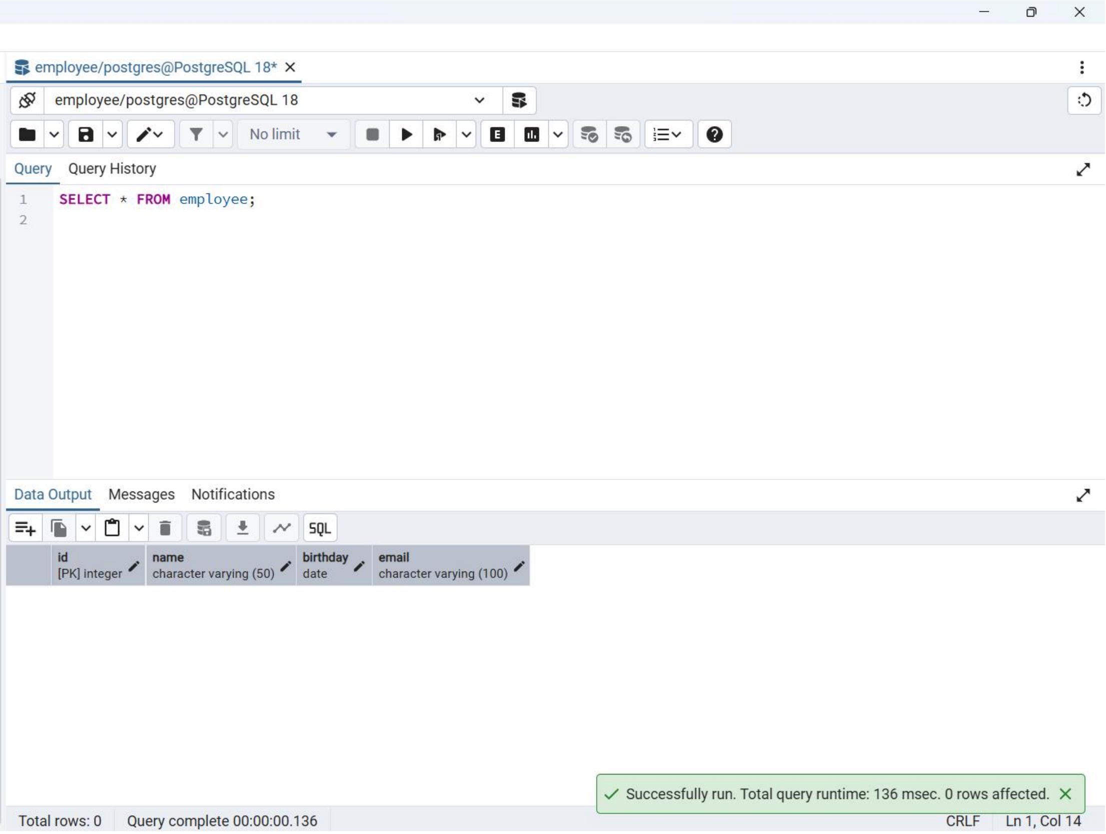
Query 1:

Description: The query creates a table named **employee** with columns for ID, name, birthday, and email. It helps practice how to define a table structure using SQL.



```sql
CREATE TABLE employee(
id SERIAL PRIMARY KEY,
name VARCHAR (50) NOT NULL,
birthday DATE NOT NULL,
email VARCHAR (100) NOT NULL
);
```

Viewing Table Data


employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History
Data Output
Messages
Notifications
SQL

```
SELECT * FROM employee;
```

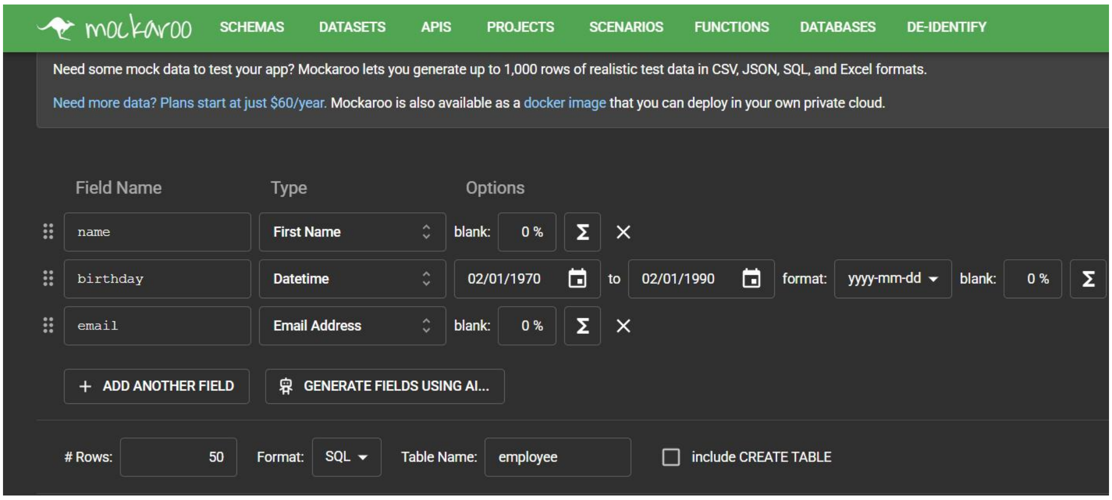
id [PK] integer	name character varying (50)	birthday date	email character varying (100)

✓ Successfully run. Total query runtime: 136 msec. 0 rows affected.

Total rows: 0 Query complete 00:00:00.136 CRLF Ln 1, Col 14

Inserting Sample Data with Mockaroo

I used the Mockaroo service to generate 50 rows of sample data for the **employee** table. The fields include realistic names, birthdates, and email addresses. This helped test the table with real looking records and practice data insertion in SQL.



Need some mock data to test your app? Mockaroo lets you generate up to 1,000 rows of realistic test data in CSV, JSON, SQL, and Excel formats.

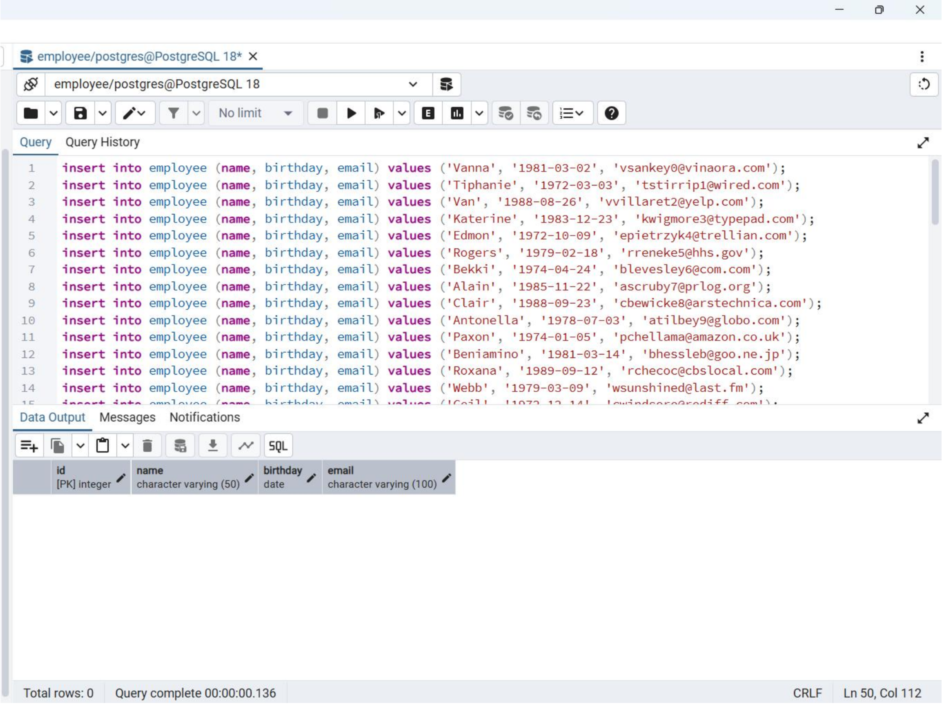
Need more data? Plans start at just $60/year. Mockaroo is also available as a docker image that you can deploy in your own private cloud.

Field Name	Type	Options
name	First Name	blank: 0 %
birthday	Datetime	02/01/1970 to 02/01/1990 format: yyyy-mm-dd blank: 0 %
email	Email Address	blank: 0 %

Rows: 50 Format: SQL Table Name: employee □ include CREATE TABLE

Inserting Records into the Employee Table

I generated 50 sample records using the Mockaroo service and inserted them into the employee table. The dataset includes realistic names, birthdays, and email addresses. This step allowed me to test the table with real looking data instead of adding the values manually.



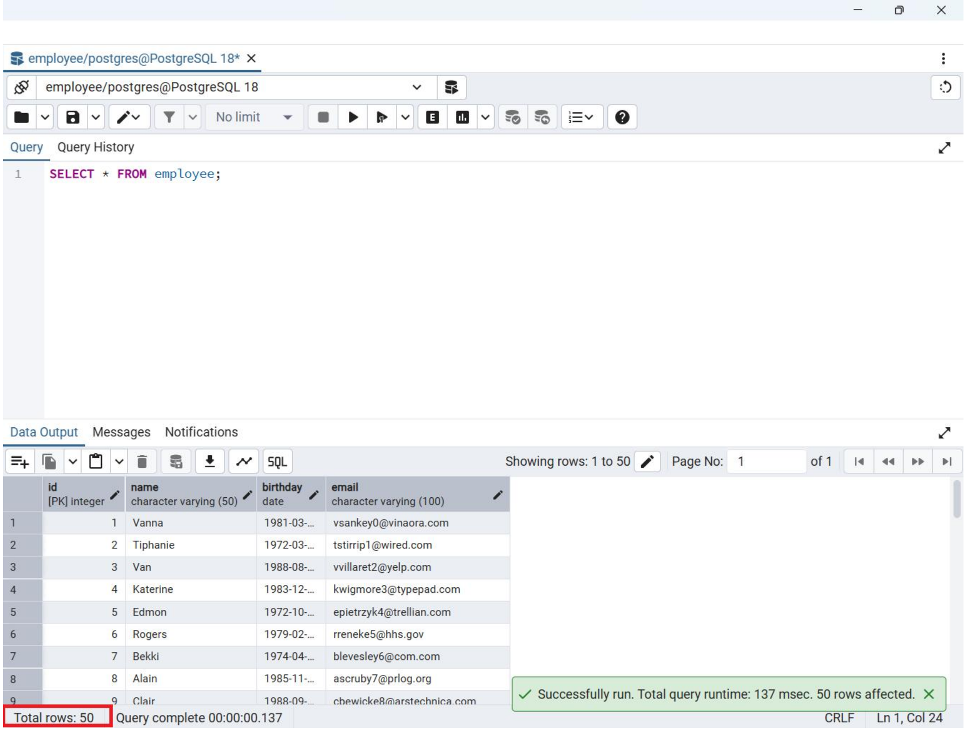
employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History
Data Output
Messages
Notifications
SQL

```sql
insert into employee (name, birthday, email) values ('Vanna', '1981-03-02', 'vsankey0@vinaora.com');
insert into employee (name, birthday, email) values ('Tiphanie', '1972-03-03', 'tstirrip1@wired.com');
insert into employee (name, birthday, email) values ('Van', '1988-08-26', 'vvillaret2@yelp.com');
insert into employee (name, birthday, email) values ('Katerine', '1983-12-23', 'kwigmore3@typepad.com');
insert into employee (name, birthday, email) values ('Edmon', '1972-10-09', 'epietrzyk4@trellian.com');
insert into employee (name, birthday, email) values ('Rogers', '1979-02-18', 'rreneke5@hhs.gov');
insert into employee (name, birthday, email) values ('Bekki', '1974-04-24', 'blevesley6@com.com');
insert into employee (name, birthday, email) values ('Alain', '1985-11-22', 'ascruby7@prlog.org');
insert into employee (name, birthday, email) values ('Clair', '1988-09-23', 'cbewicke8@arstechnica.com');
insert into employee (name, birthday, email) values ('Antonella', '1978-07-03', 'atilbey9@globo.com');
insert into employee (name, birthday, email) values ('Paxon', '1974-01-05', 'pchellama@amazon.co.uk');
insert into employee (name, birthday, email) values ('Beniamino', '1981-03-14', 'bhessleb@goo.ne.jp');
insert into employee (name, birthday, email) values ('Roxana', '1989-09-12', 'rchecoc@cbslocal.com');
insert into employee (name, birthday, email) values ('Webb', '1979-03-09', 'wsunshined@last.fm');
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)

Total rows: 0 Query complete 00:00:00.136 CRLF Ln 50, Col 112

Verifying Inserted Data



employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History
Data Output
Messages
Notifications
SQL

```sql
SELECT * FROM employee;
```

Showing rows: 1 to 50 Page No: 1 of 1

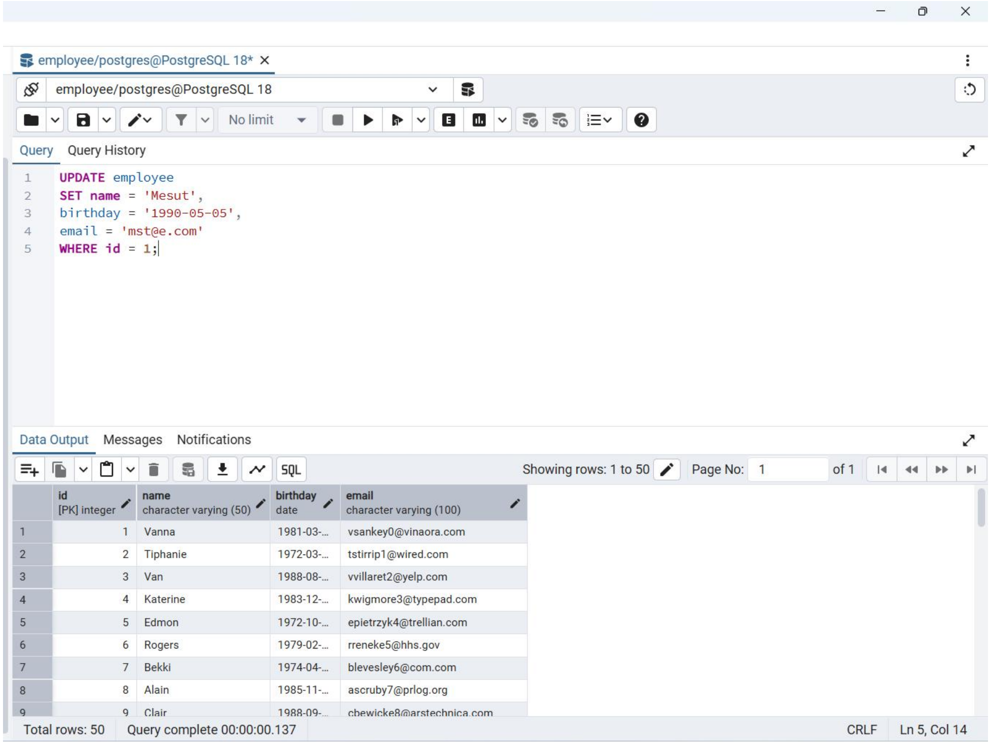
	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
1	1	Vanna	1981-03-...	vsankey0@vinaora.com
2	2	Tiphanie	1972-03-...	tstirrip1@wired.com
3	3	Van	1988-08-...	vvillaret2@yelp.com
4	4	Katerine	1983-12-...	kwigmore3@typepad.com
5	5	Edmon	1972-10-...	epietrzyk4@trellian.com
6	6	Rogers	1979-02-...	rreneke5@hhs.gov
7	7	Bekki	1974-04-...	blevesley6@com.com
8	8	Alain	1985-11-...	ascruby7@prlog.org
9	9	Clair	1988-09-...	cbewicke8@arstechnica.com

✓ Successfully run. Total query runtime: 137 msec. 50 rows affected.

Total rows: 50 Query complete 00:00:00.137 CRLF Ln 1, Col 24

Query 2:

Description: This query updates the name, birthday, and email of the employee whose ID is 1. It helps practice how to modify specific records in a table using the UPDATE statement and a condition based on the primary key.

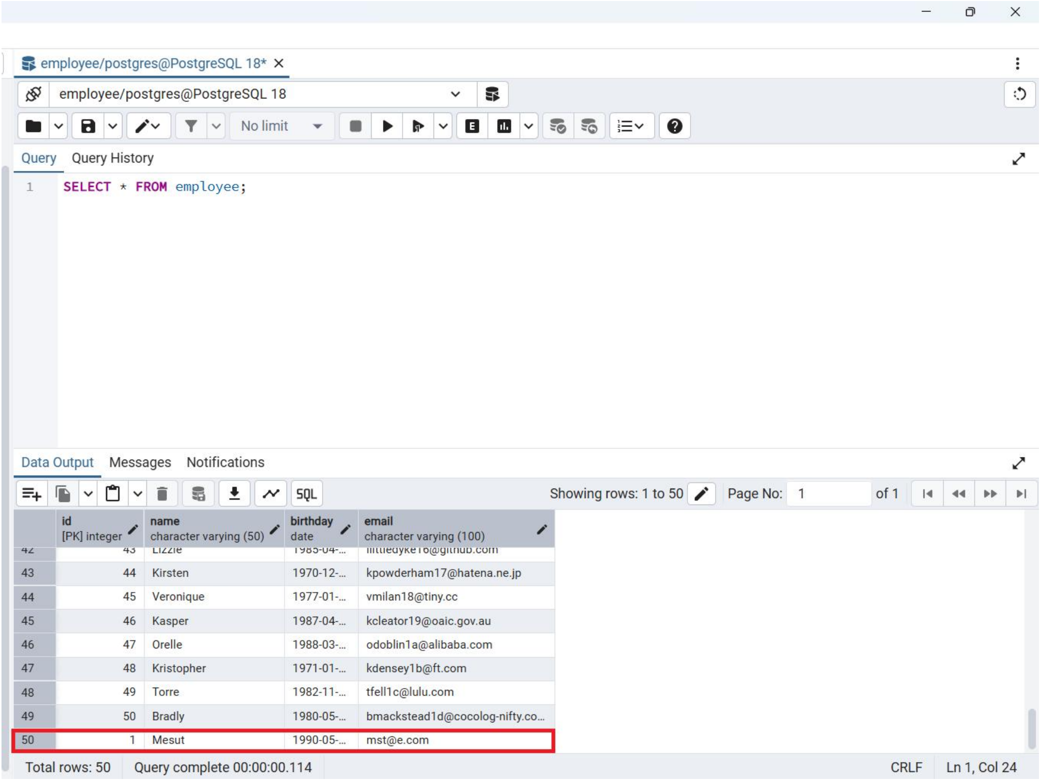


```sql
UPDATE employee
SET name = 'Mesut',
birthday = '1990-05-05',
email = 'mst@e.com'
WHERE id = 1;
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
1	1	Vanna	1981-03-...	vsankey0@vinaora.com
2	2	Tiphanie	1972-03-...	tstirrip1@wired.com
3	3	Van	1988-08-...	vvillaret2@yelp.com
4	4	Katerine	1983-12-...	kwigmore3@typepad.com
5	5	Edmon	1972-10-...	epietrzyk4@trellian.com
6	6	Rogers	1979-02-...	rreneke5@hhs.gov
7	7	Bekki	1974-04-...	blevesley6@com.com
8	8	Alain	1985-11-...	ascruby7@prlog.org
9	9	Clair	1988-09-...	cbewicke8@arstechnica.com

Total rows: 50 Query complete 00:00:00.137 CRLF Ln 5, Col 14

Verifying Update Results:



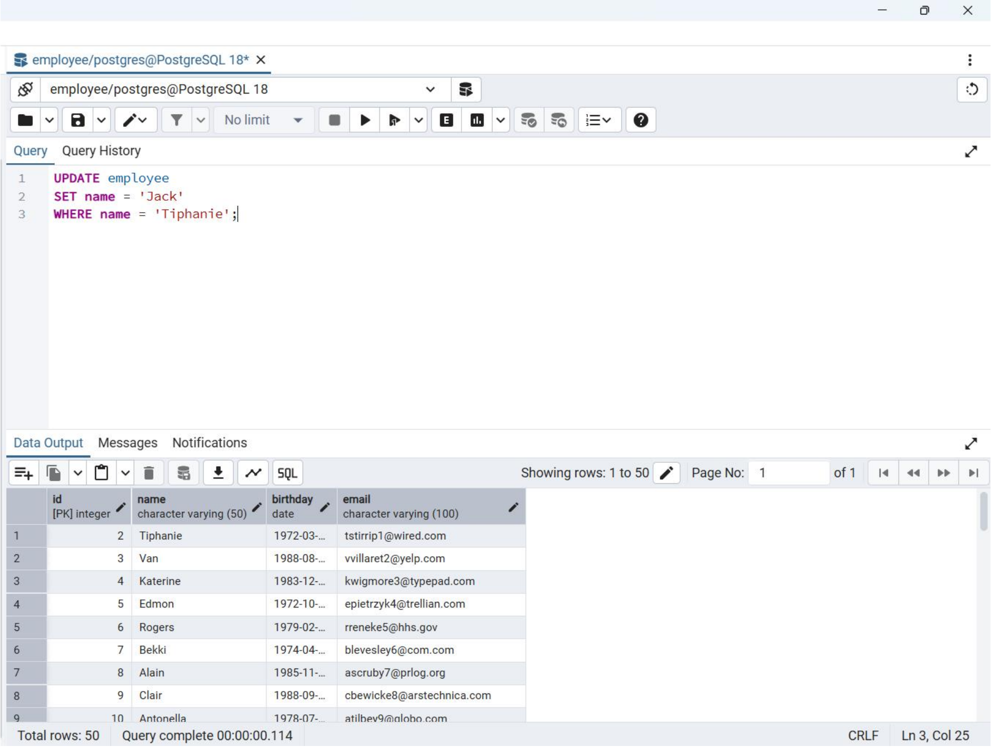
```sql
SELECT * FROM employee;
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
42	43	Lizzie	1985-04-...	llittledyke16@github.com
43	44	Kirsten	1970-12-...	kpowderham17@hatena.ne.jp
44	45	Veronique	1977-01-...	vmilan18@tiny.cc
45	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
46	47	Orelle	1988-03-...	odoblin1a@alibaba.com
47	48	Kristopher	1971-01-...	kdensey1b@ft.com
48	49	Torre	1982-11-...	tfell1c@lulu.com
49	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
50	1	Mesut	1990-05-...	mst@e.com

Total rows: 50 Query complete 00:00:00.114 CRLF Ln 1, Col 24

Query 3:

Description: This query changes the name of the employee from **"Tiphanie"** to **"Jack"**. It helps practice how to update a specific record using a condition based on the name column instead of the primary key.

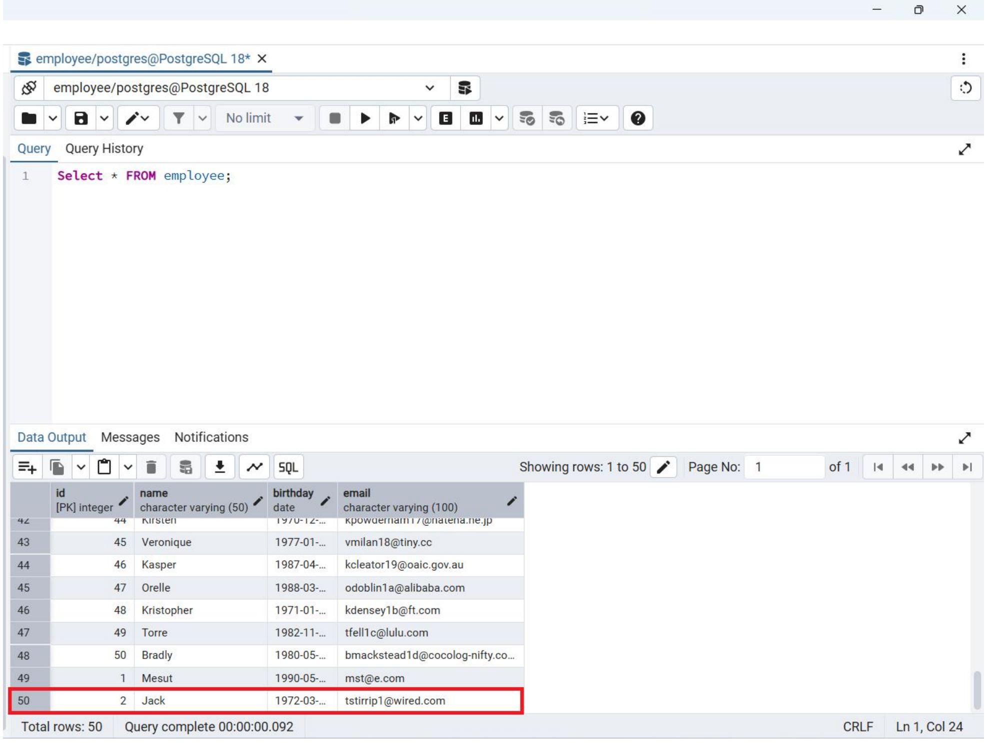


```sql
UPDATE employee
SET name = 'Jack'
WHERE name = 'Tiphanie';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
1	2	Tiphanie	1972-03-...	tstirrip1@wired.com
2	3	Van	1988-08-...	vvillaret2@yelp.com
3	4	Katerine	1983-12-...	kwigmore3@typepad.com
4	5	Edmon	1972-10-...	epietrzyk4@trellian.com
5	6	Rogers	1979-02-...	rreneke5@hhs.gov
6	7	Bekki	1974-04-...	blevesley6@com.com
7	8	Alain	1985-11-...	ascruby7@prlog.org
8	9	Clair	1988-09-...	cbewicke8@arstechnica.com
9	10	Antonella	1978-07-...	atilbey9@globo.com

Total rows: 50 Query complete 00:00:00.114

Verifying Update Results:



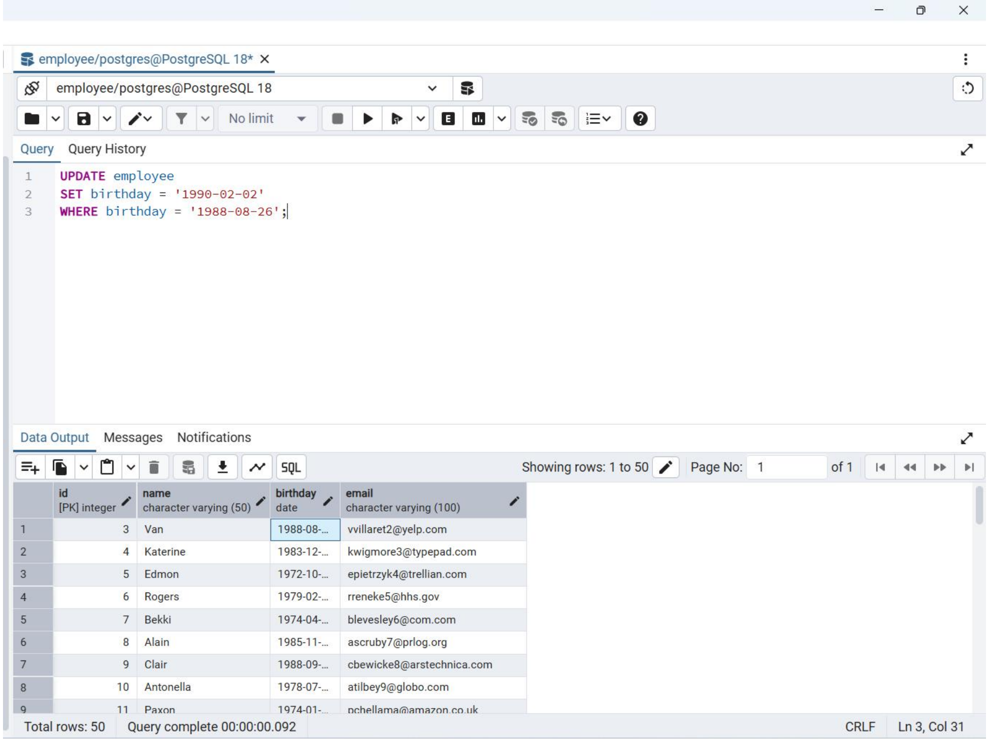
```sql
Select * FROM employee;
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
42	44	Kirsten	1970-12-...	kpowderham17@hatena.ne.jp
43	45	Veronique	1977-01-...	vmilan18@tiny.cc
44	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
45	47	Orelle	1988-03-...	odoblin1a@alibaba.com
46	48	Kristopher	1971-01-...	kdensey1b@ft.com
47	49	Torre	1982-11-...	tfell1c@lulu.com
48	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
49	1	Mesut	1990-05-...	mst@e.com
50	2	Jack	1972-03-...	tstirrip1@wired.com

Total rows: 50 Query complete 00:00:00.092

Query 4:

Description: This query changes the birthday of the employee whose original birthday is '1988-08-26'. It helps practice how to update records using a condition based on the birthday column instead of ID or name.



employee/postgres@PostgreSQL 18*

employee/postgres@PostgreSQL 18

No limit

Query | Query History

```sql
UPDATE employee
SET birthday = '1990-02-02'
WHERE birthday = '1988-08-26';
```

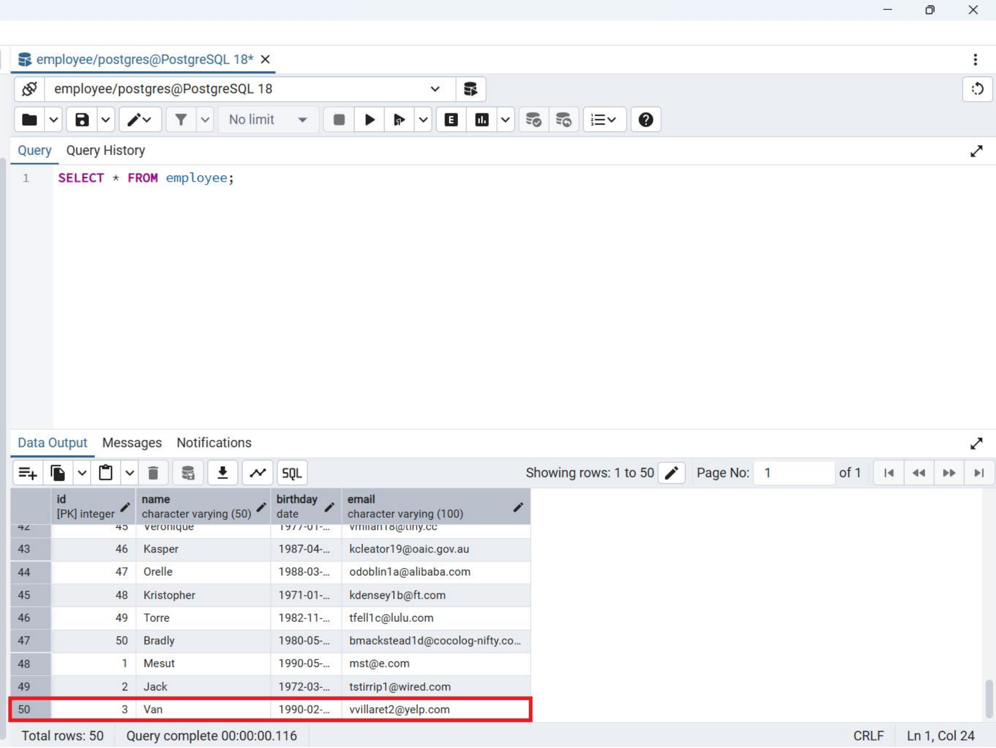
Data Output | Messages | Notifications

Showing rows: 1 to 50 | Page No: 1 of 1

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
1	3	Van	1988-08-...	vvillaret2@yelp.com
2	4	Katerine	1983-12-...	kwigmore3@typepad.com
3	5	Edmon	1972-10-...	epietrzyk4@trellian.com
4	6	Rogers	1979-02-...	rreneke5@hhs.gov
5	7	Bekki	1974-04-...	blevesley6@com.com
6	8	Alain	1985-11-...	ascruby7@prlog.org
7	9	Clair	1988-09-...	cbewicke8@arstechnica.com
8	10	Antonella	1978-07-...	atilbey9@globo.com
9	11	Paxon	1974-01-...	pchellama@amazon.co.uk

Total rows: 50 | Query complete 00:00:00.092 | CRLF | Ln 3, Col 31

Verifying Update Results:



employee/postgres@PostgreSQL 18*

employee/postgres@PostgreSQL 18

No limit

Query | Query History

```sql
SELECT * FROM employee;
```

Data Output | Messages | Notifications

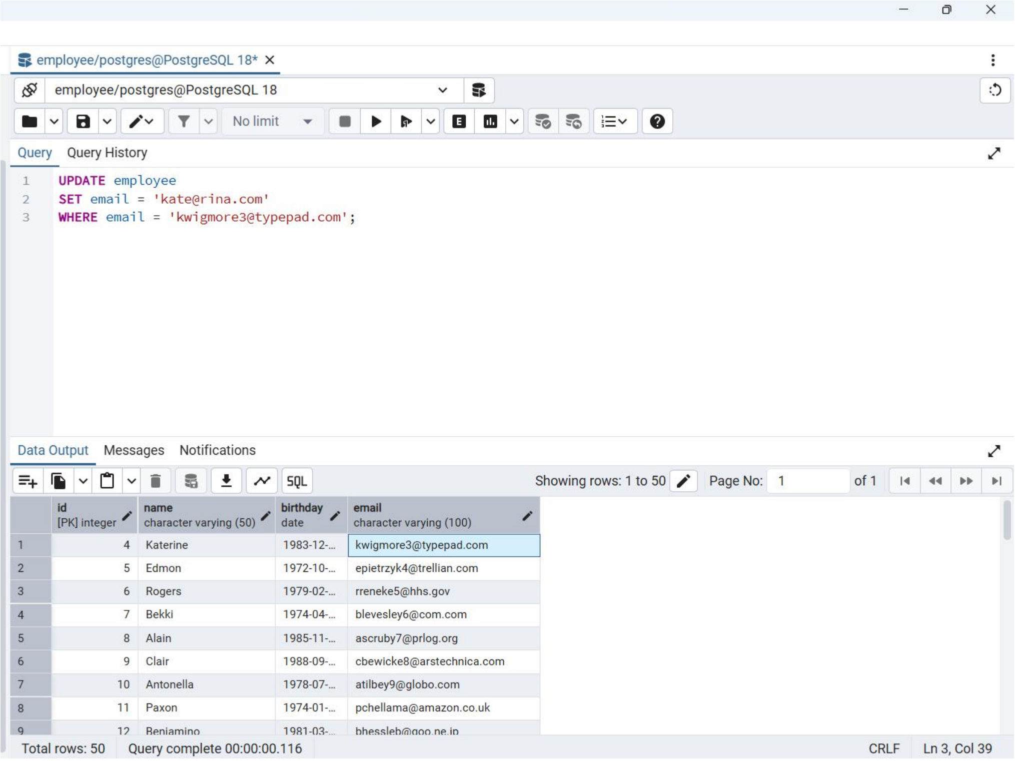
Showing rows: 1 to 50 | Page No: 1 of 1

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
42	45	Veronique	1977-01-...	vmilan18@tiny.cc
43	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
44	47	Orelle	1988-03-...	odoblin1a@alibaba.com
45	48	Kristopher	1971-01-...	kdensey1b@ft.com
46	49	Torre	1982-11-...	tfell1c@lulu.com
47	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
48	1	Mesut	1990-05-...	mst@e.com
49	2	Jack	1972-03-...	tstirrip1@wired.com
50	3	Van	1990-02-...	vvillaret2@yelp.com

Total rows: 50 | Query complete 00:00:00.116 | CRLF | Ln 1, Col 24

Query 5:

Description: This query replaces the email of an employee whose current address is 'kwigmore3@typepad.com'.



employee/postgres@PostgreSQL 18

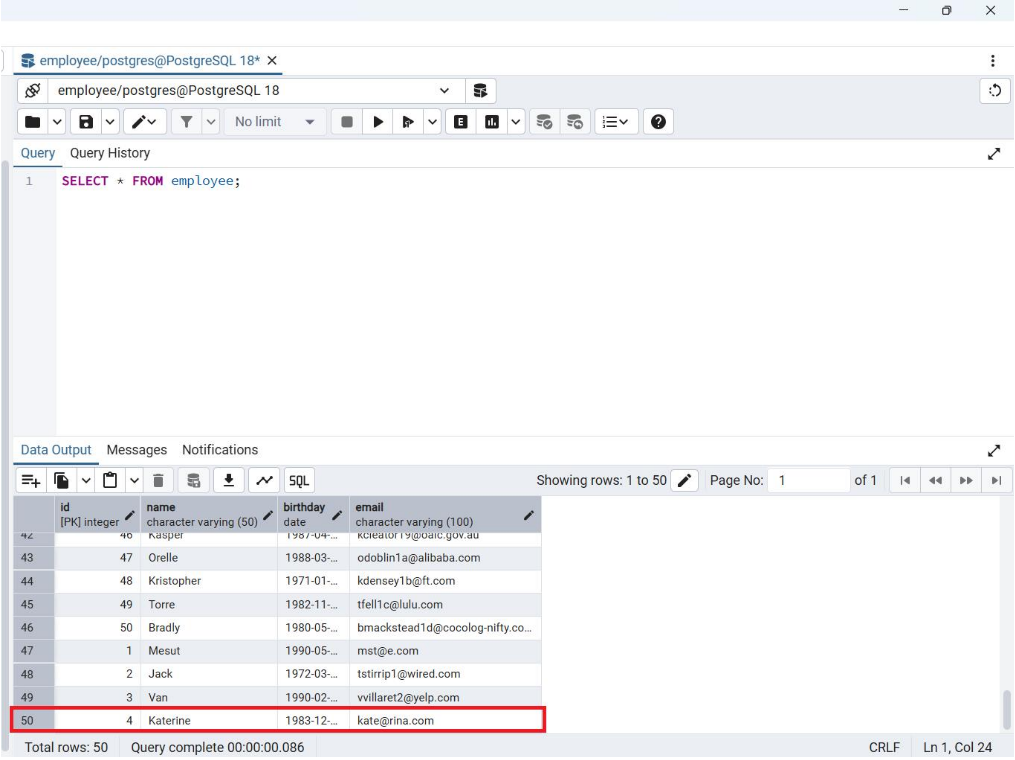
```sql
UPDATE employee
SET email = 'kate@rina.com'
WHERE email = 'kwigmore3@typepad.com';
```

Showing rows: 1 to 50   Page No: 1   of 1

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
1	4	Katerine	1983-12-...	kwigmore3@typepad.com
2	5	Edmon	1972-10-...	epietrzyk4@trellian.com
3	6	Rogers	1979-02-...	rreneke5@hhs.gov
4	7	Bekki	1974-04-...	blevesley6@com.com
5	8	Alain	1985-11-...	ascruby7@prlog.org
6	9	Clair	1988-09-...	cbewicke8@arstechnica.com
7	10	Antonella	1978-07-...	atilbey9@globo.com
8	11	Paxon	1974-01-...	pchellama@amazon.co.uk
9	12	Beniamino	1981-03-...	bhessleb@goo.ne.jp

Total rows: 50   Query complete 00:00:00.116   CRLF   Ln 3, Col 39

Verifying Update Results:



employee/postgres@PostgreSQL 18

```sql
SELECT * FROM employee;
```

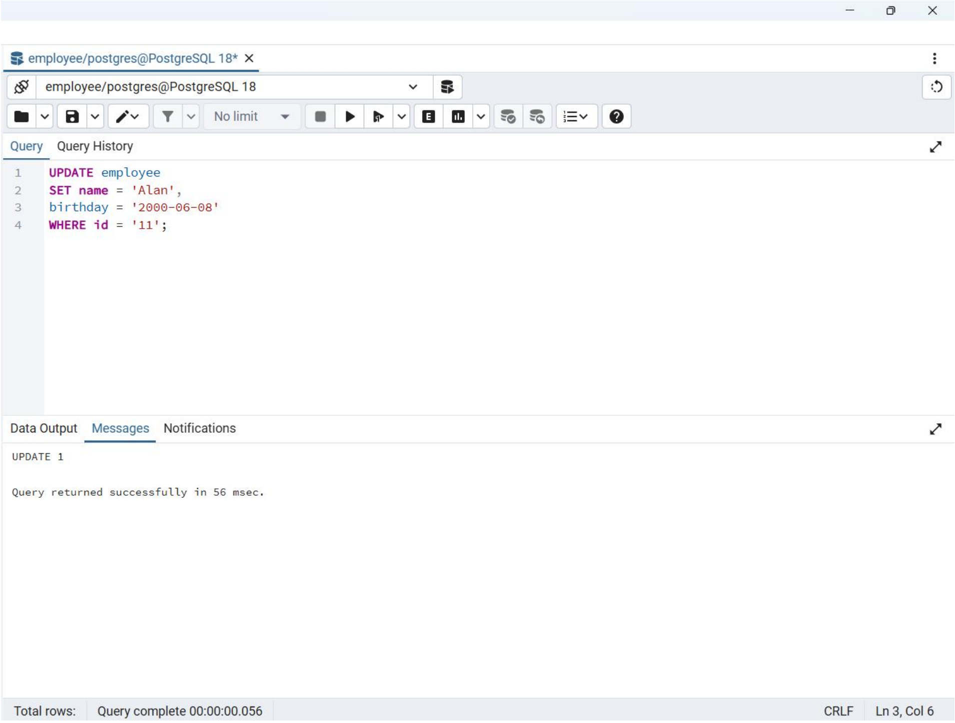
Showing rows: 1 to 50   Page No: 1   of 1

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
42	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
43	47	Orelle	1988-03-...	odoblin1a@alibaba.com
44	48	Kristopher	1971-01-...	kdensey1b@ft.com
45	49	Torre	1982-11-...	tfell1c@lulu.com
46	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
47	1	Mesut	1990-05-...	mst@e.com
48	2	Jack	1972-03-...	tstirrip1@wired.com
49	3	Van	1990-02-...	vvillaret2@yelp.com
50	4	Katerine	1983-12-...	kate@rina.com

Total rows: 50   Query complete 00:00:00.086   CRLF   Ln 1, Col 24

Query 6:

Description: This query updates both the name and birthday of the employee with ID 11


employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History

```
UPDATE employee
SET name = 'Alan',
birthday = '2000-06-08'
WHERE id = '11';
```

Data Output
Messages
Notifications

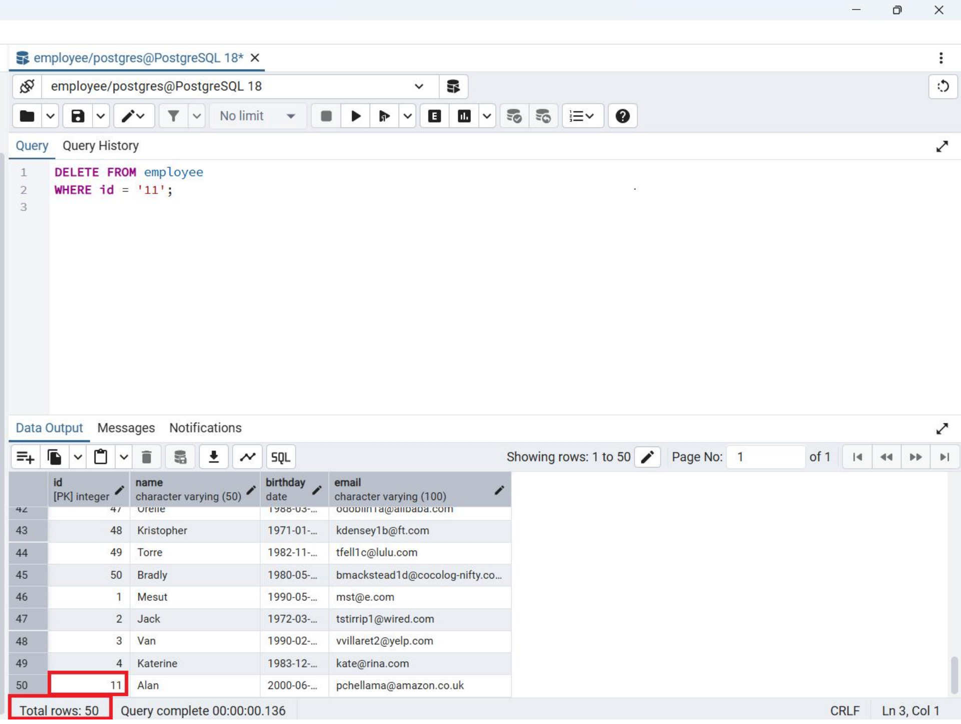
```
UPDATE 1

Query returned successfully in 56 msec.
```

Total rows: Query complete 00:00:00.056 CRLF Ln 3, Col 6

Query 7: Deleting a Record by ID

Description: This query removes the employee whose ID is 11 from the table. It's a simple way to test how deletion works using a condition based on the primary key.


employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History

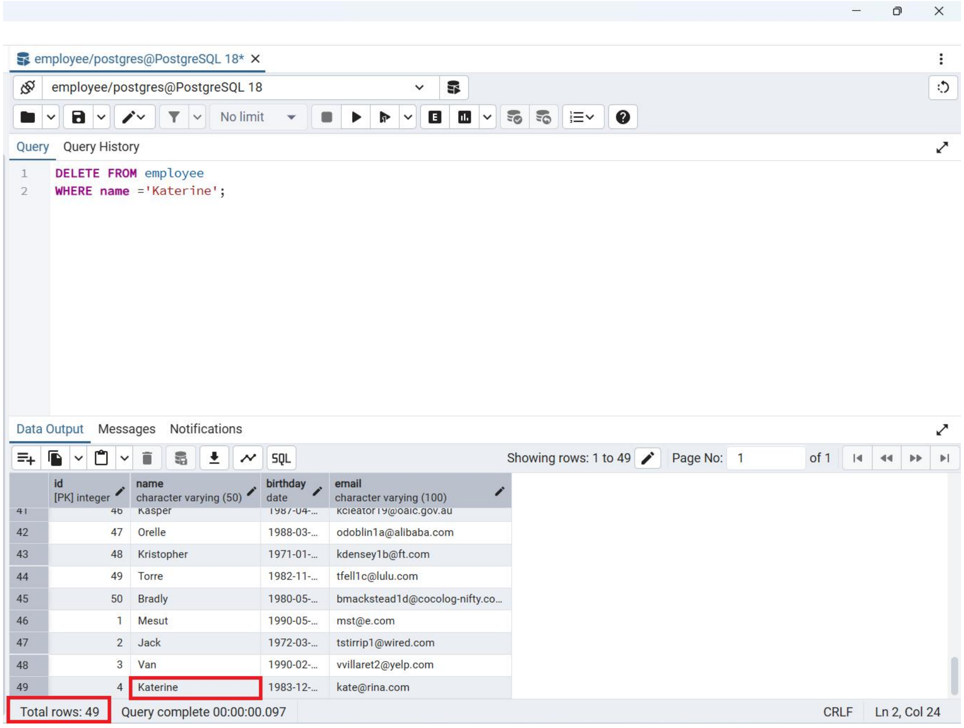
```
DELETE FROM employee
WHERE id = '11';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
46	1	Mesut	1990-05-...	mst@e.com
47	2	Jack	1972-03-...	tstirrip1@wired.com
48	3	Van	1990-02-...	vvillaret2@yelp.com
49	4	Katerine	1983-12-...	kate@rina.com
50	11	Alan	2000-06-...	pchellama@amazon.co.uk

Total rows: 50 Query complete 00:00:00.136 CRLF Ln 3, Col 1

Query 8:

Description: This query deletes the employee named 'Katerine' from the table. It shows how to remove a specific row using a condition based on the name column instead of ID.



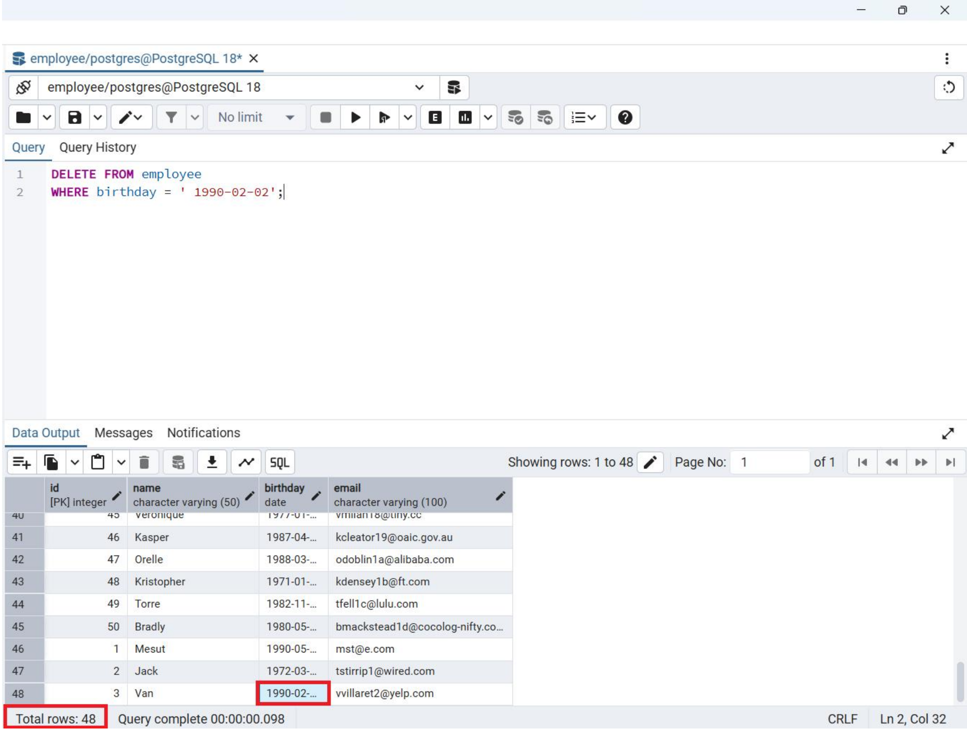
```
DELETE FROM employee
WHERE name ='Katerine';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
41	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
46	1	Mesut	1990-05-...	mst@e.com
47	2	Jack	1972-03-...	tstirrip1@wired.com
48	3	Van	1990-02-...	vvillaret2@yelp.com
49	4	Katerine	1983-12-...	kate@rina.com

Total rows: 49 Query complete 00:00:00.097

Query 9:

Description: This query removes the employee whose birthday is '1990-02-02'.



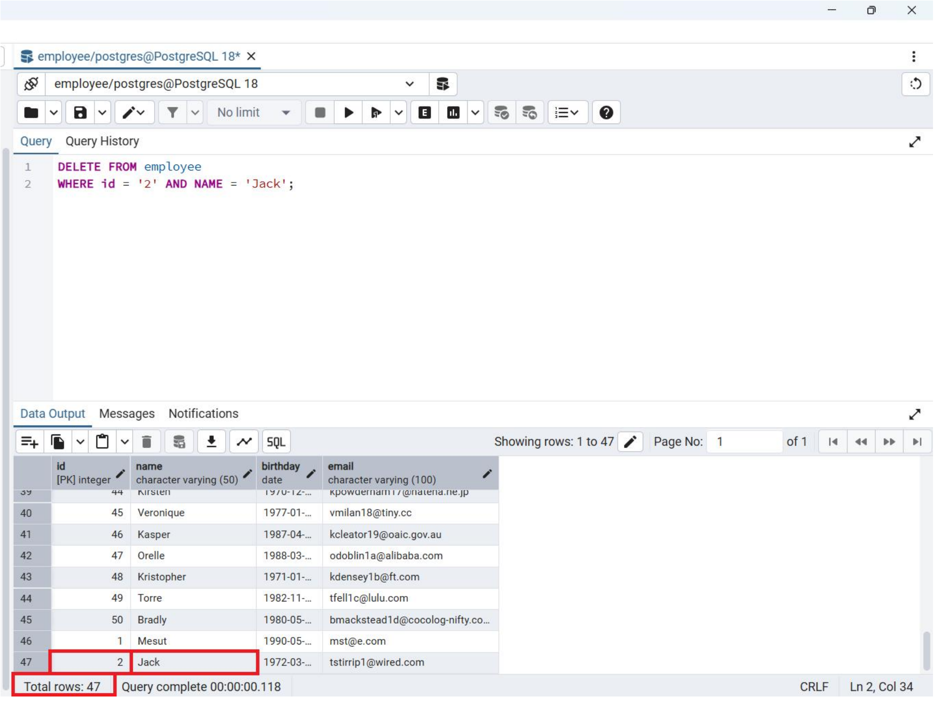
```
DELETE FROM employee
WHERE birthday = ' 1990-02-02';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
40	45	Veronique	1977-01-...	vmillan18@tiny.cc
41	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
46	1	Mesut	1990-05-...	mst@e.com
47	2	Jack	1972-03-...	tstirrip1@wired.com
48	3	Van	1990-02-...	vvillaret2@yelp.com

Total rows: 48 Query complete 00:00:00.098

Query 10:

Description: This query removes the employee whose ID is 2 and whose name is 'Jack'. I was using both conditions together.



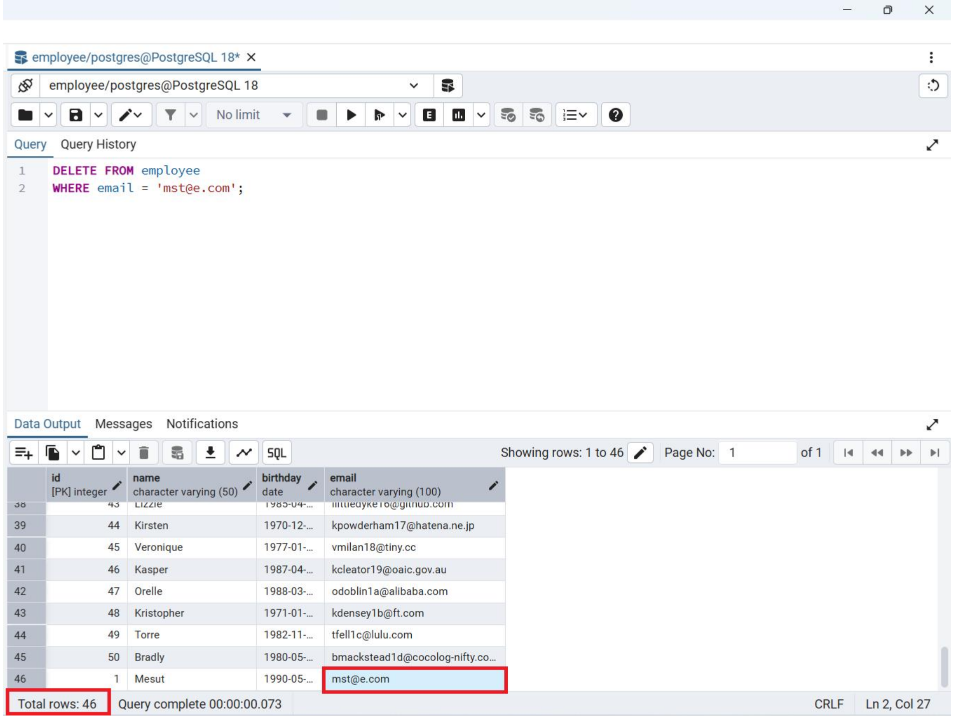
```sql
DELETE FROM employee
WHERE id = '2' AND NAME = 'Jack';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
39	44	Kirsten	1970-12-...	kpowderham17@hatena.ne.jp
40	45	Veronique	1977-01-...	vmilan18@tiny.cc
41	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
46	1	Mesut	1990-05-...	mst@e.com
47	2	Jack	1972-03-...	tstirrip1@wired.com

Total rows: 47 Query complete 00:00:00.118 CRLF Ln 2, Col 34

Query 11: Deleting a Record by Email

Description: This query deletes the employee whose email is 'mst@e.com'. If you want to remove a specific user based on their contact information rather than ID or name.

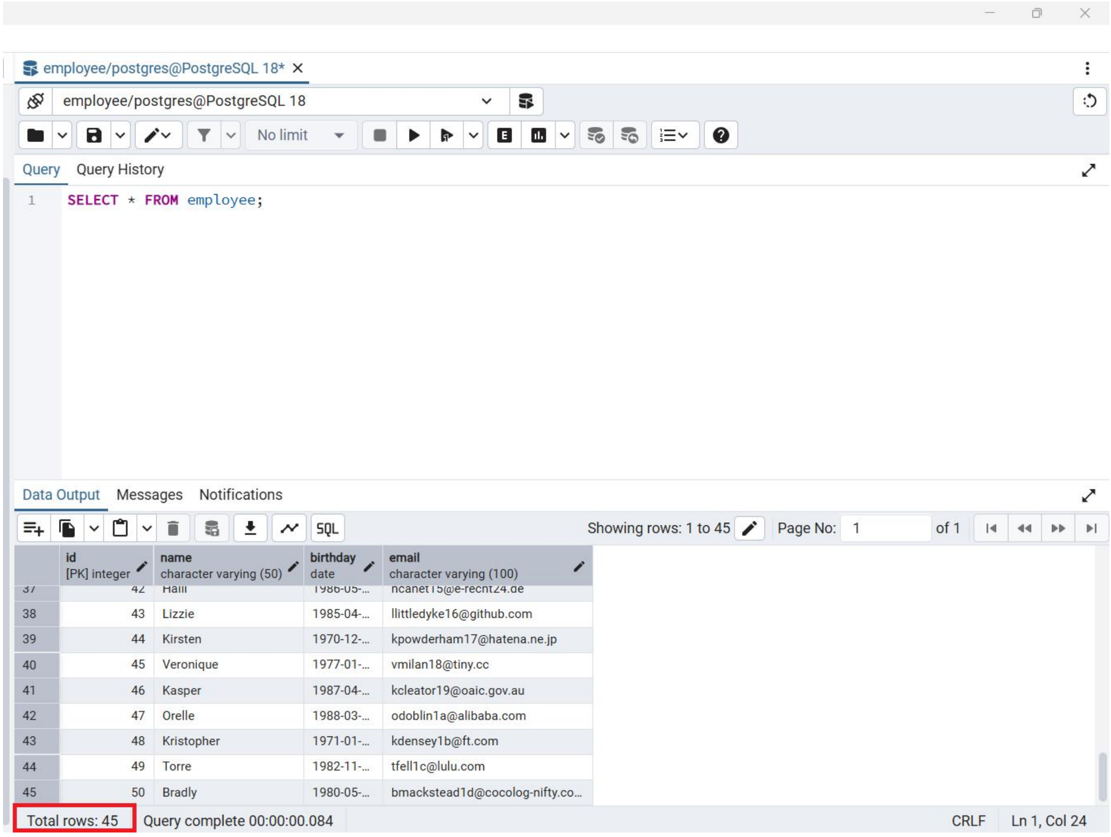


```sql
DELETE FROM employee
WHERE email = 'mst@e.com';
```

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
38	43	Lizzie	1985-04-...	littledyke16@github.com
39	44	Kirsten	1970-12-...	kpowderham17@hatena.ne.jp
40	45	Veronique	1977-01-...	vmilan18@tiny.cc
41	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...
46	1	Mesut	1990-05-...	mst@e.com

Total rows: 46 Query complete 00:00:00.073 CRLF Ln 2, Col 27

Verifying Update Results:



employee/postgres@PostgreSQL 18*
employee/postgres@PostgreSQL 18
No limit
Query
Query History
Data Output
Messages
Notifications
SQL

```sql
SELECT * FROM employee;
```

Showing rows: 1 to 45 Page No: 1 of 1

	id [PK] integer	name character varying (50)	birthday date	email character varying (100)
37	42	Halil	1986-05-...	ncanet15@e-recht24.de
38	43	Lizzie	1985-04-...	llittledyke16@github.com
39	44	Kirsten	1970-12-...	kpowderham17@hatena.ne.jp
40	45	Veronique	1977-01-...	vmilan18@tiny.cc
41	46	Kasper	1987-04-...	kcleator19@oaic.gov.au
42	47	Orelle	1988-03-...	odoblin1a@alibaba.com
43	48	Kristopher	1971-01-...	kdensey1b@ft.com
44	49	Torre	1982-11-...	tfell1c@lulu.com
45	50	Bradly	1980-05-...	bmackstead1d@cocolog-nifty.co...

Total rows: 45 Query complete 00:00:00.084 CRLF Ln 1, Col 24