

## 1. Create database, create tables & insert data

```
Terminal
[local]:5432 postgres@postgres=# \i solution.sql
psql:solution.sql:2: NOTICE: database "quiz4" does not exist, skipping
DROP DATABASE
CREATE DATABASE
DROP ROLE
CREATE ROLE
[local]:5432 postgres@postgres=# \c quiz4 quiz4
Password for user quiz4:
You are now connected to database "quiz4" as user "quiz4".
[local]:5432 quiz4@quiz4=> \i solution.sql
psql:solution.sql:10: NOTICE: table "book" does not exist, skipping
DROP TABLE
CREATE TABLE
psql:solution.sql:19: NOTICE: table "author" does not exist, skipping
DROP TABLE
CREATE TABLE
INSERT 0 5
INSERT 0 5
id | title | isbn | pages | pub_date
-----+-----+-----+-----+-----
1 | Harry Potter and the Sorcerer's Stone | 9780590353427 | 309 | 2024-04-15
2 | The Shining | 9780385121675 | 447 | 2024-04-15
3 | 1984 | 9780451524935 | 328 | 2024-04-15
4 | The Hobbit | 9780345534835 | 310 | 2024-04-15
5 | To Kill a Mockingbird | 9780060935467 | 323 | 2024-04-15
(5 rows)

id | fname | lname
-----+-----+-----
1 | J.K. | Rowling
2 | Stephen | King
3 | George | Orwell
4 | J.R.R. | Tolkien
5 | Harper | Lee
(5 rows)
[local]:5432 quiz4@quiz4=>
```

## 2. Stored Procedure

```
Terminal
[local]:5432 quiz4@quiz4=> \i solution.sql
CREATE PROCEDURE
CALL
[local]:5432 quiz4@quiz4=> SELECT *
[local] quiz4@quiz4-> FROM book;
id | title | isbn | pages | pub_date
-----+-----+-----+-----+-----
1 | Harry Potter and the Sorcerer's Stone | 9780590353427 | 309 | 2024-04-15
2 | The Shining | 9780385121675 | 447 | 2024-04-15
3 | 1984 | 9780451524935 | 328 | 2024-04-15
4 | The Hobbit | 9780345534835 | 310 | 2024-04-15
5 | To Kill a Mockingbird | 9780060935467 | 323 | 2024-04-15
6 | New Book | 1234567890 | 200 | 2024-04-15
(6 rows)
[local]:5432 quiz4@quiz4=>
```

### 3. Function

```
Terminal
[local]:5432 quiz4@quiz4=> \i solution.sql
CREATE FUNCTION
insert_author
-----
        6
(1 row)

 id | fname | lname
----+-----+-----
  1 | J.K.  | Rowling
  2 | Stephen | King
  3 | George | Orwell
  4 | J.R.R. | Tolkien
  5 | Harper | Lee
  6 | John  | Doe
(6 rows)

[local]:5432 quiz4@quiz4=> 
```

### 4. Create table author\_logs

```
Terminal
[local]:5432 quiz4@quiz4=> \i solution.sql
CREATE TABLE
 id_old | fname_old | lname_old
-----+-----+-----
(0 rows)

[local]:5432 quiz4@quiz4=> 
```

## 5. Implement and test trigger

```
Terminal
[local]:5432 quiz4@quiz4=> \i solution.sql
CREATE FUNCTION
psql:solution.sql:132: NOTICE: trigger "author_logs_trg" for relation "author" does not exist, skip
ping
DROP TRIGGER
CREATE TRIGGER
[local]:5432 quiz4@quiz4=>
```

```
Terminal
[local]:5432 quiz4@quiz4=> \i solution.sql
UPDATE 1
id | fname | lname
-----+-----+-----
 1 | J.K.  | Rowling
 2 | Stephen | King
 3 | George | Orwell
 4 | J.R.R. | Tolkien
 5 | Harper | Lee
 6 | Jane  | Doe
(6 rows)

id_old | fname_old | lname_old
-----+-----+-----
      6 | John      | Doe
(1 row)

DELETE 1
id | fname | lname
-----+-----+-----
 1 | J.K.  | Rowling
 2 | Stephen | King
 3 | George | Orwell
 4 | J.R.R. | Tolkien
 5 | Harper | Lee
(5 rows)

id_old | fname_old | lname_old
-----+-----+-----
      6 | John      | Doe
      6 | Jane      | Doe
(2 rows)

[local]:5432 quiz4@quiz4=>
```