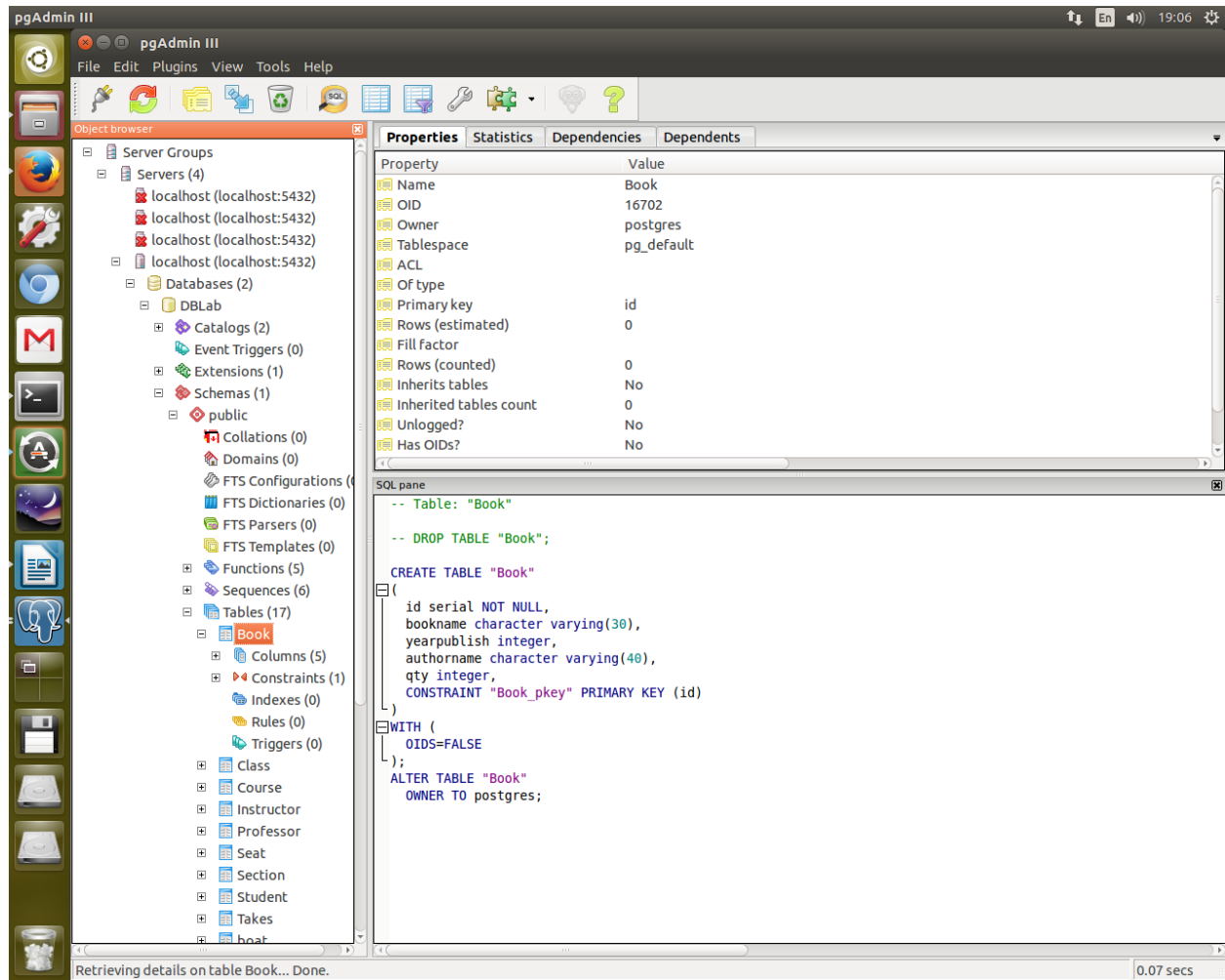


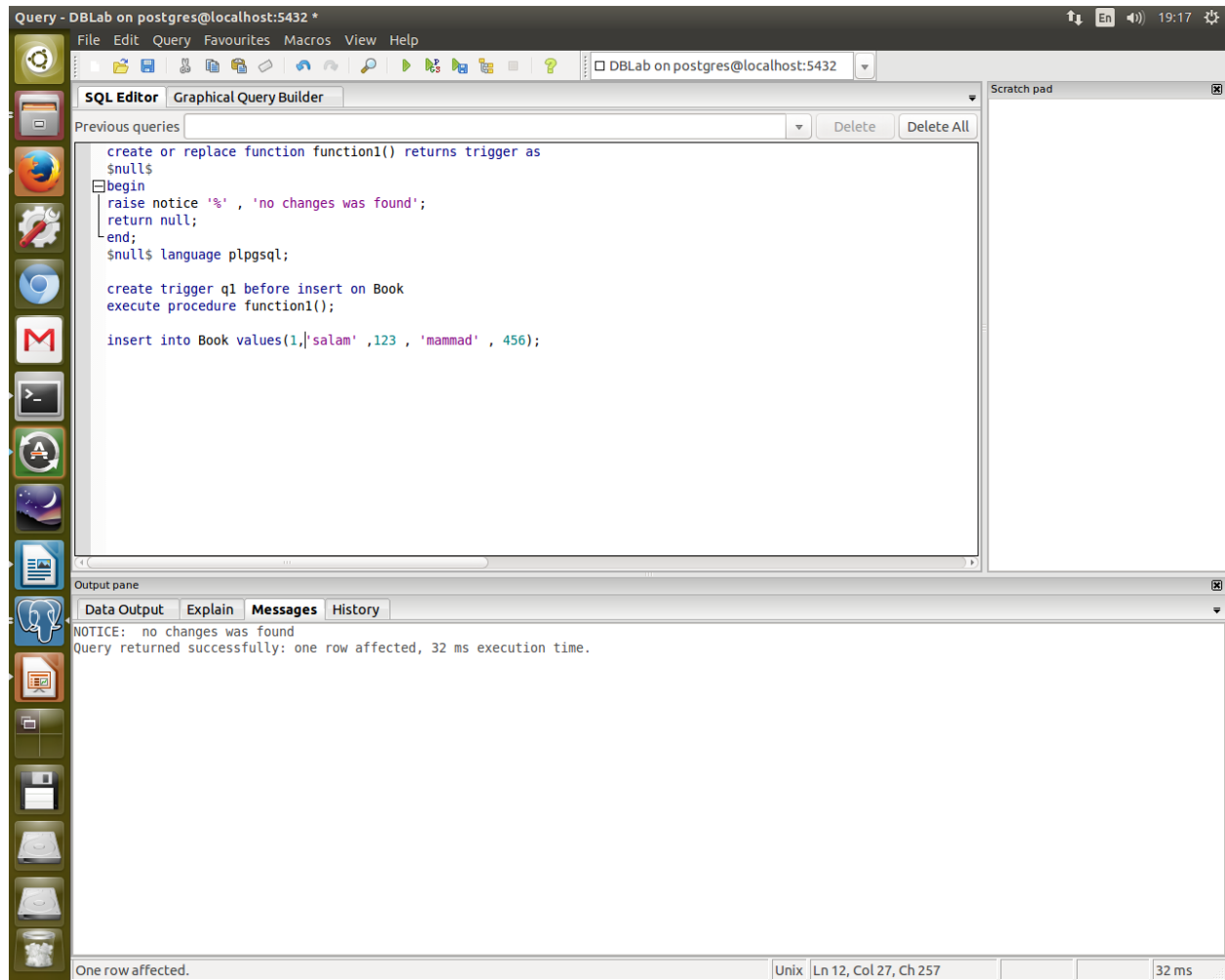
به نام خدا

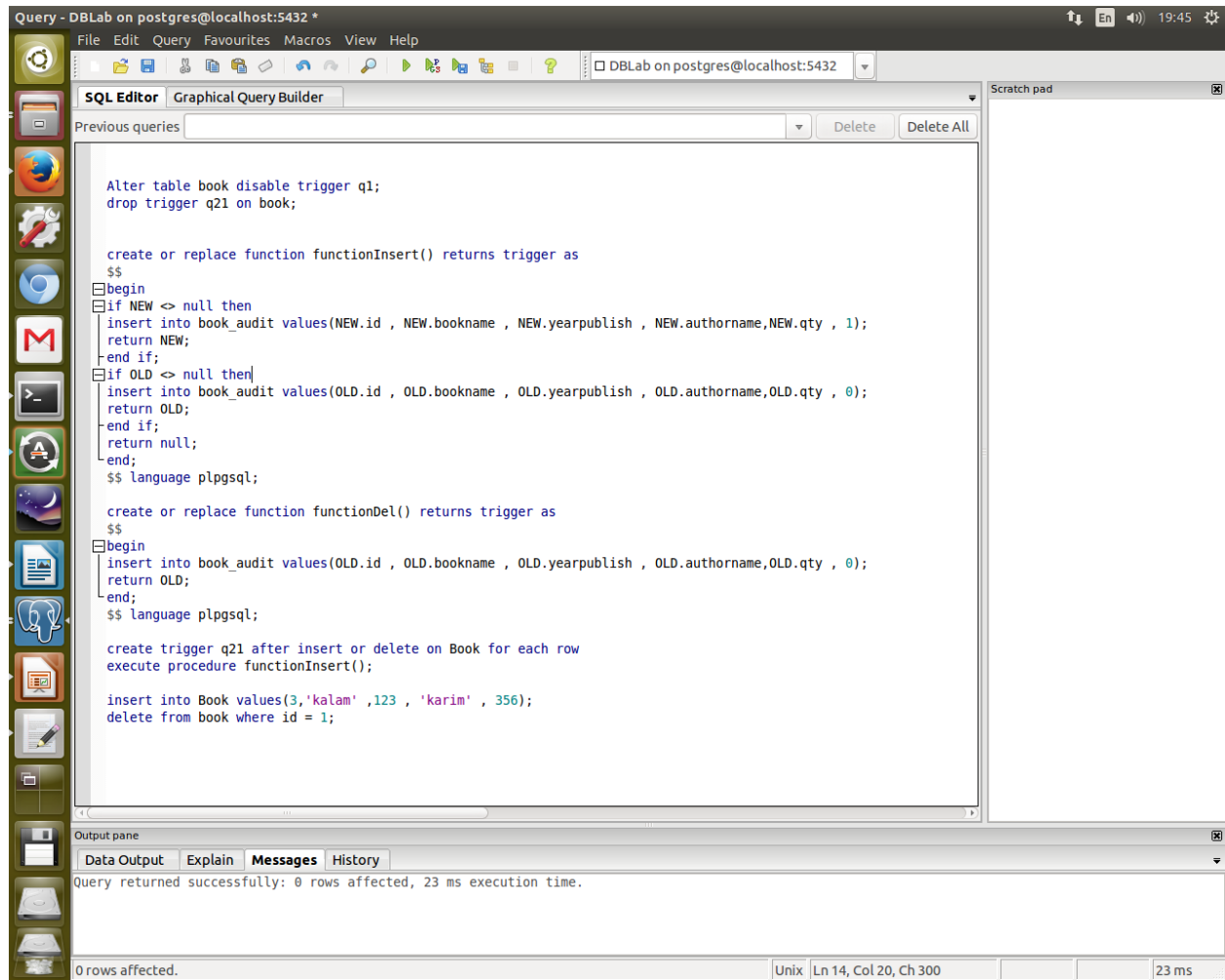
محمد مهدی آقاجانی

گزارش ششم

توجه : گزارش پنجم و ششم به اشتباه به
جای یکدیگر بارگذاری شده اند. در واقع این
گزارش ، گزارش جلسه پنجم می باشد.







The screenshot shows the DDLab PostgreSQL client interface. The main window is titled "Query - DDLab on postgres@localhost:5432 *". The menu bar includes File, Edit, Query, Favourites, Macros, View, and Help. The toolbar contains icons for file operations, query execution, and help. The "SQL Editor" tab is active, showing a list of "Previous queries" and buttons for "Delete" and "Delete All". The SQL code in the editor is as follows:

```
Alter table book disable trigger q1;
drop trigger q21 on book;

create or replace function functionInsert() returns trigger as
$$
begin
if NEW <> null then
insert into book_audit values(NEW.id , NEW.bookname , NEW.yearpublish , NEW.authorname,NEW.qty , 1);
return NEW;
end if;
if OLD <> null then
insert into book_audit values(OLD.id , OLD.bookname , OLD.yearpublish , OLD.authorname,OLD.qty , 0);
return OLD;
end if;
return null;
end;
$$ language plpgsql;

create or replace function functionDel() returns trigger as
$$
begin
insert into book_audit values(OLD.id , OLD.bookname , OLD.yearpublish , OLD.authorname,OLD.qty , 0);
return OLD;
end;
$$ language plpgsql;

create trigger q21 after insert or delete on Book for each row
execute procedure functionInsert();

insert into Book values(3,'kalam' ,123 , 'karim' , 356);
delete from book where id = 1;
```

The "Output pane" at the bottom shows the execution results:

Query returned successfully: 0 rows affected, 23 ms execution time.

The status bar at the bottom indicates "0 rows affected." and "Unix | Ln 14, Col 20, Ch 300". The execution time is "23 ms".

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] Delete Delete All

```
select * from book_audit;
```

Scratch pad

Output pane

Data Output Explain Messages History

	id integer	bookname character varying(30)	yearpublish integer	authorname character varying(40)	qty integer	ins_or_del integer
1	2	kalam	123	karim	356	1
2	1	salam	123	mammad	456	0

OK. Unix Ln 1, Col 26, Ch 26 2 rows. 3 ms

Query - DBLab on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] [Delete] [Delete All]

```

Alter table book disable trigger q21;

create or replace function functionUpdate() returns trigger as
$$
begin
insert into data values(OLD.yearpublish , NEW.yearpublish , current_date , 12);
return NEW;
end;
$$ language plpgsql;

create trigger q3 after update of yearpublish on book for each row
execute procedure functionUpdate();

update book set yearpublish = 46879 where id =2 ;
select * from data;
    
```

Scratch pad

Output pane

Data Output Explain Messages History

	olddata integer	newdata integer	time date	id integer
1	123	46879	2017	12

OK. Unix Ln 11, Col 67, Ch 297 1 row. 12 ms