

## PG\_DWH TASK 2

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## **CONTENTS**

1.

```
1 		 CREATE TABLE IF NOT EXISTS employee(
        id serial ,
        name varchar(100),
        status varchar(100)
Data Output Messages Notifications
CREATE TABLE
Query returned successfully in 34 msec.
```

Table created.

2.

```
select txid_current();
13 v insert into public.employee ("name", status)
15 v select *, xmin, xmax
     from public.employee e;
     commit;
     -- first transaction
     begin;
     select *, xmin, xmax from public.employee e;
     commit;
Data Output Messages Notifications
                                    SQL
                                    status
     id
                                                        xmin
                                                                  xmax
               character varying (100)
                                   character varying (100)
                                                                         â
```

All gueries are executed as in lecture.

```
Query Query History
38 begin;
39 v select *, xmin, xmax
40 from public.employee e;
41 v select *, xmin, xmax
from public.employee e; commit;
49 v select *, xmin, xmax from public.employee
     commit;
    begin;
56 select txid_current();
57 v delete from public.employee
59 v select *, xmin, xmax,cmin,cmax
from public.employee e;
     commit;
66 -- thir
67 begin;
68 select txid_current();
69 v update public.employee
70 set status = 'Fired'
71 where id = 2;
72 v select *, xmin, xmax
    from public.employee e;
      commit;
```

3.

```
SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

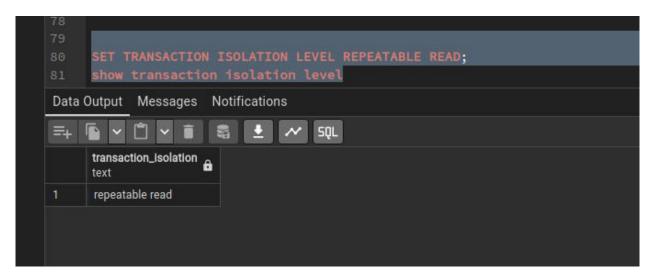
Data Output Messages Notifications

WARNING: SET TRANSACTION can only be used in transaction blocks
SET

Query returned successfully in 36 msec.
```

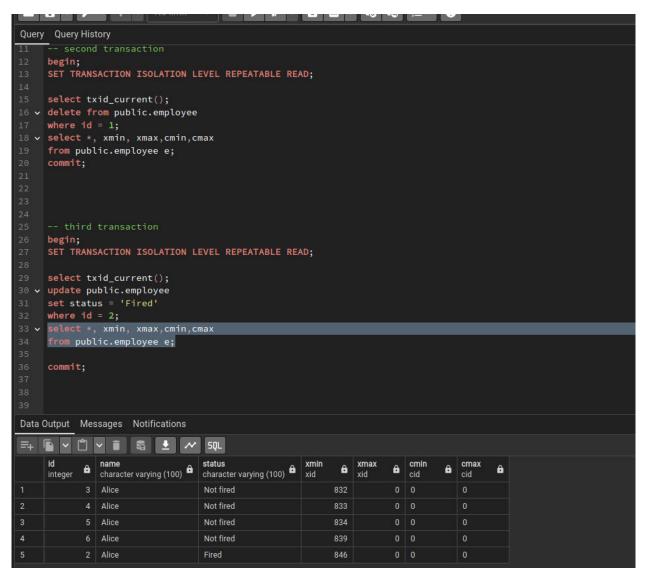
4.

Set Transaction isolation level to repeatable read.



Transaction isolation level is repeatable read.

5.



All queries are executed with isolation level repeatable read.

6.

```
137
138
139
140
BEGIN;
141
142
SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

143
144
145 v update public.employee
set status = 'Fired'
where id = 2;
COMMIT;

149
150

Data Output Messages Notifications

UPDATE 1

Query returned successfully in 59 msec.
```

First transaction works well as expected,

Business Template < CDan

```
BEGIN;

SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

update public.employee set status = 'Fired' where id = 2;

COMMIT;

Data Output Messages Notifications

Total rows: 6 of 6 Waiting for the query to complete... 00.00:16.925 Ln 51, Col 14
```

Second transaction waiting for the first to be complete then it will be executed. When I commit first one I got this error.

This means Postgres locked access due to concturent update.

7.

We successfully update our table in first transaction and when I run second one it's also waiting for the first one to be committed.

Business Template < CDam>

```
CORNII;

Sat Cornii;

BEGIN;

BEGIN;

SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

Lupdate public.employee set status = 'Fired'

Where Id = 2;

COMMIT;

Button In the public of the
```

And after I commit first one , second one also executed successfully and updated row.