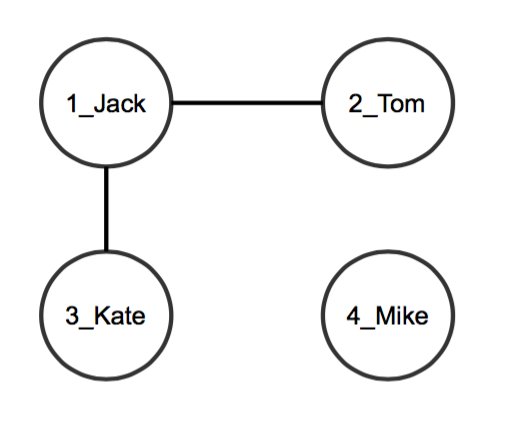
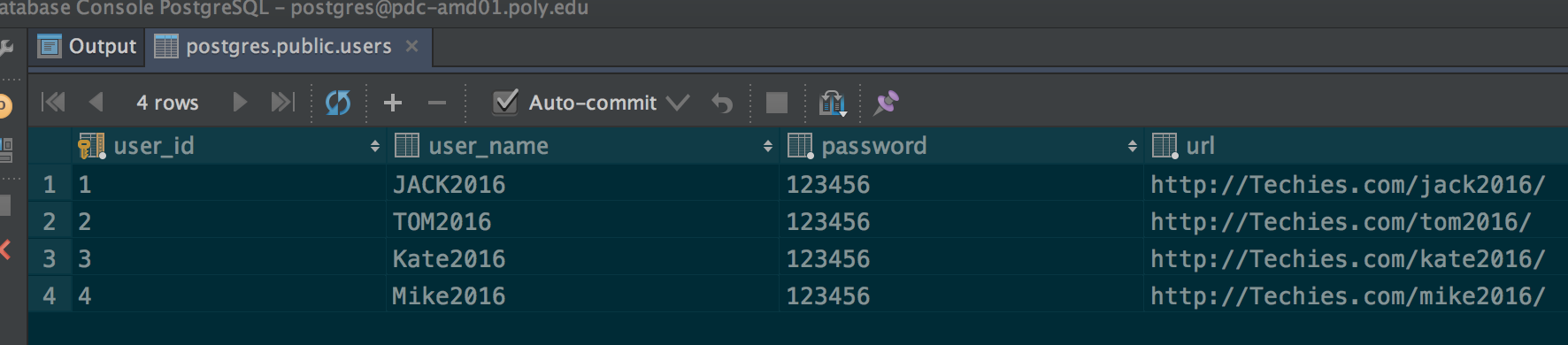
# Test Document

Relationship between four persons for test:

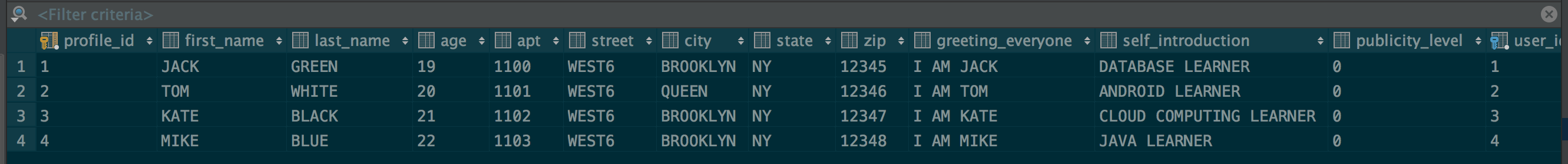


## Part 1: Test Content Posting

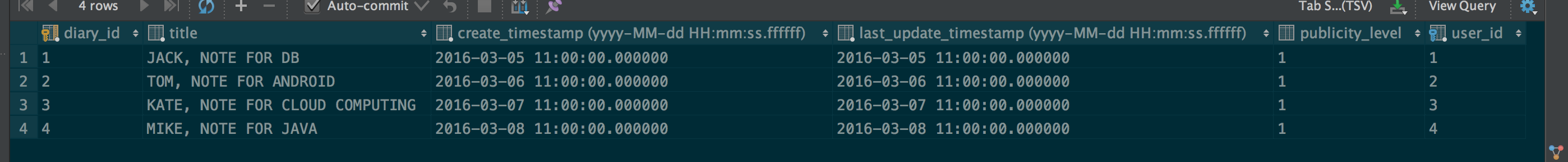
*/\*sign up\*/***INSERT INTO** USERS **VALUES** (1, **'JACK2016'**, **'123456'**, **'http://Techies.com/jack2016/'**);  
**INSERT INTO** USERS **VALUES** (2, **'TOM2016'**, **'123456'**, **'http://Techies.com/tom2016/'**);  
**INSERT INTO** USERS **VALUES** (3, **'Kate2016'**, **'123456'**, **'http://Techies.com/kate2016/'**);  
**INSERT INTO** USERS **VALUES** (4, **'Mike2016'**, **'123456'**, **'http://Techies.com/mike2016/'**);



*/\*create or edit profiles\*/***INSERT INTO** profile **VALUES** (1, **'JACK'**, **'GREEN'**, 18, **'1100'**, **'WEST6'**,  
 **'BROOKLYN'**, **'NY'**, 12345, **'I AM JACK'**, **'DATABASE LEARNER'**, 0, 1);  
  
**UPDATE** profile **SET AGE** = 19 **WHERE profile\_id** = 1;  
  
**INSERT INTO** profile **VALUES** (2, **'TOM'**, **'WHITE'**, 20, **'1101'**, **'WEST6'**,  
 **'QUEEN'**, **'NY'**, 12346, **'I AM TOM'**, **'ANDROID LEARNER'**, 0, 2);  
  
**INSERT INTO** profile **VALUES** (3, **'KATE'**, **'BLACK'**, 21, **'1102'**, **'WEST6'**,  
 **'BROOKLYN'**,**'NY'**, 12347, **'I AM KATE'**, **'CLOUD COMPUTING LEARNER'**, 0, 3);  
  
**INSERT INTO** profile **VALUES** (4, **'MIKE'**, **'BLUE'**, 22, **'1103'**, **'WEST6'**,  
 **'BROOKLYN'**,**'NY'**, 12348, **'I AM MIKE'**, **'JAVA LEARNER'**, 0, 4);

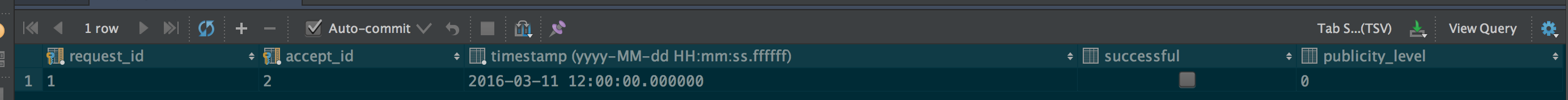


*/\*add a new entry to their diaries\*/***INSERT INTO** diary **VALUES** (1, **'JACK, NOTE FOR DB'**,  
 **'2016-03-05 11:00:00'**, **'2016-03-05 11:00:00'**, 1, 1);  
  
**INSERT INTO** diary **VALUES** (2, **'TOM, NOTE FOR ANDROID'**,  
 **'2016-03-06 11:00:00'**, **'2016-03-06 11:00:00'**, 1, 2);  
  
**INSERT INTO** diary **VALUES** (3, **'KATE, NOTE FOR CLOUD COMPUTING'**,  
 **'2016-03-07 11:00:00'**, **'2016-03-07 11:00:00'**, 1, 3);  
  
**INSERT INTO** diary **VALUES** (4, **'MIKE, NOTE FOR JAVA'**,  
 **'2016-03-08 11:00:00'**, **'2016-03-08 11:00:00'**, 1, 4);

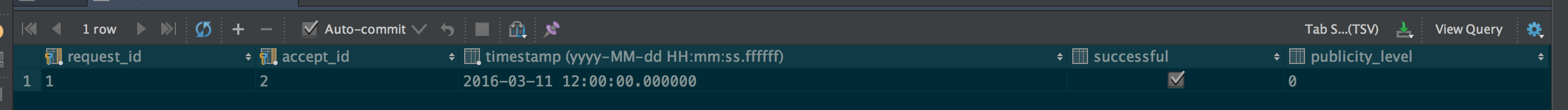


## Part2: Test Friendship

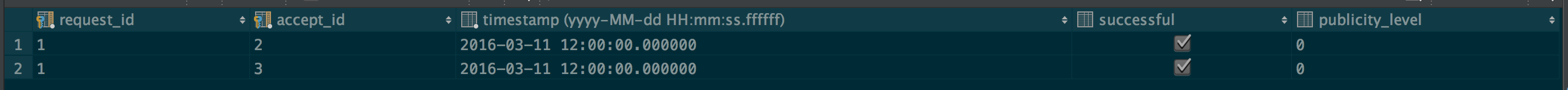
**INSERT INTO** friendship **VALUES** (1, 2, **'2016-03-11 12:00:00'**, **FALSE**, 0);



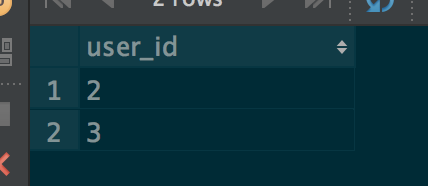
**UPDATE** FRIENDSHIP **SET successful**=**FALSE  
WHERE request\_id** = 1 **AND accept\_id** = 2;



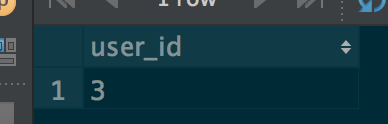
**INSERT INTO** friendship **VALUES** (1, 3, **'2016-03-11 12:00:00'**, **FALSE** , 0);  
  
**UPDATE** FRIENDSHIP **SET successful**=**TRUE  
WHERE request\_id** = 1 **AND accept\_id** = 3;



*/\*LIST ALL FRIENDS OF USER WITH ID 1\*/*(**SELECT request\_id as** user\_id  
**FROM** friendship  
**WHERE accept\_id**=1)  
**UNION**(**SELECT accept\_id as** user\_id  
**FROM** friendship  
**WHERE request\_id**=1);

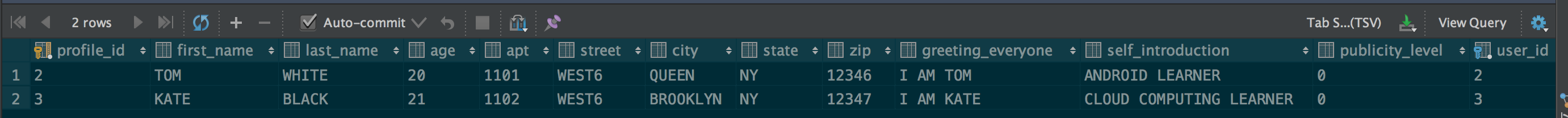


*/\*LIST ALL FOF of User with user id 2\*/***CREATE VIEW** friend\_of\_2 **AS**(**SELECT request\_id as** user\_id  
**FROM** friendship  
**WHERE accept\_id**=2)  
**UNION**(**SELECT accept\_id as** user\_id  
**FROM** friendship  
**WHERE request\_id**=2);  
  
(**SELECT request\_id as** user\_id  
**FROM** friendship  
**WHERE accept\_id IN** (**SELECT** user\_id **AS** accept\_id **FROM** friend\_of\_2))  
**UNION** (**SELECT accept\_id as** user\_id  
 **FROM** friendship  
 **WHERE request\_id IN** (**SELECT** user\_id **AS** request\_id **FROM** friend\_of\_2))  
**EXCEPT** (**SELECT user\_id  
 FROM** users  
 **WHERE user\_id**=2);

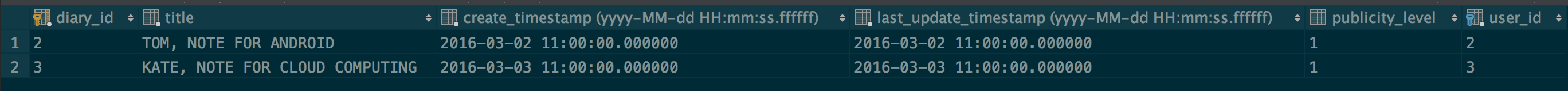


## Part 3: Browse/Search Queries

*/\*VIEW FOR ALL FRIENDS\*/***CREATE VIEW** friend\_of\_1 **AS** (  
 **SELECT accept\_id as** user\_id  
 **FROM** friendship  
 **WHERE request\_id**=1  
 **UNION** (**SELECT request\_id as** user\_id  
 **FROM** friendship  
 **WHERE accept\_id**=1)  
);  
  
*/\*ALL PROFILES OF FRIENDS\*/***SELECT** *\****FROM** profile  
**WHERE publicity\_level** < 3 **AND user\_id IN** (  
 **SELECT** user\_id  
 **FROM** friend\_of\_1  
 );

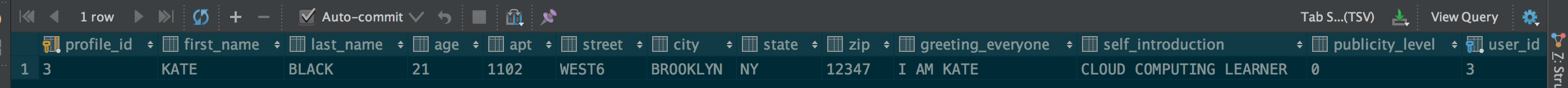


*/\*ALL DIARIES OF FRIENDS\*/***SELECT** *\****FROM** diary  
**WHERE publicity\_level** < 3 **AND user\_id IN** (  
 **SELECT** user\_id  
 **FROM** friend\_of\_1  
);

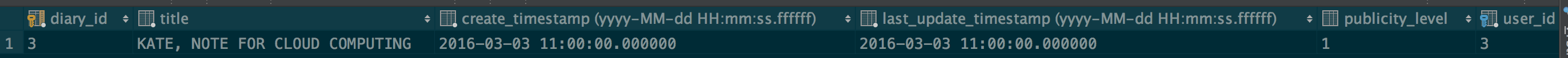


*/\*VIEW FOR FOF\*/***CREATE VIEW** fof\_of\_2 **AS** (  
 (**SELECT accept\_id AS** user\_id  
 **FROM** friendship  
 **WHERE request\_id IN** (**SELECT user\_id FROM** friend\_of\_2))  
 **UNION** (**SELECT request\_id AS** user\_id  
 **FROM** friendship  
 **WHERE accept\_id IN** (**SELECT user\_id FROM** friend\_of\_2))  
 **EXCEPT** (**SELECT user\_id FROM** users **WHERE user\_id**=2)  
);

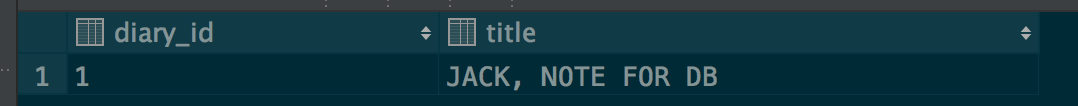
*/\*ALL PROFILES OF FOF\*/***SELECT** *\****FROM** profile  
**WHERE publicity\_level** < 2 **AND user\_id IN** (  
 **SELECT** user\_id  
 **FROM** fof\_of\_2  
);



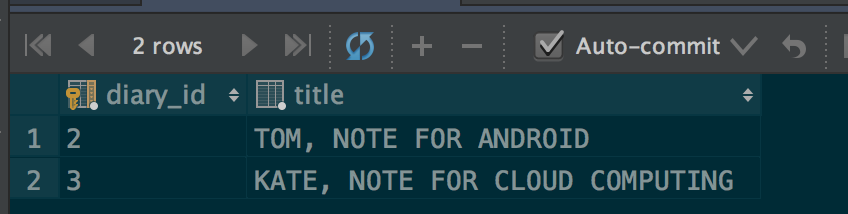
*/\*ALL DIARIES OF FOF\*/***SELECT** *\****FROM** diary  
**WHERE publicity\_level** < 3 **AND user\_id IN** (  
 **SELECT** user\_id  
 **FROM** fof\_of\_2  
);



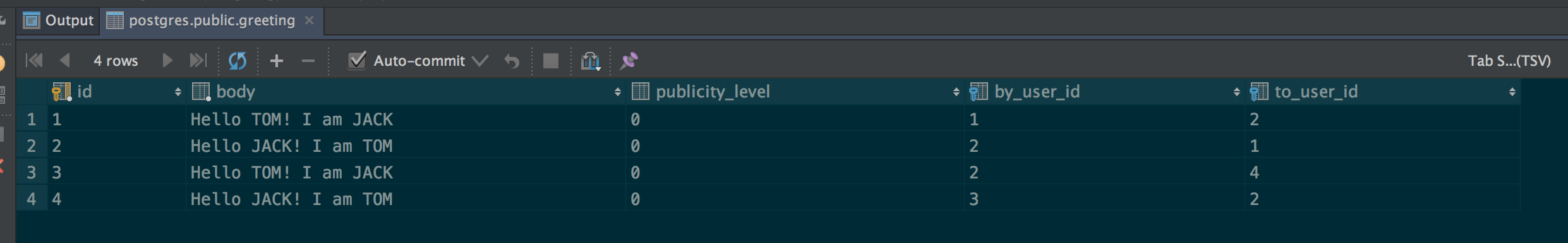
*/\*ALL DIARIES WHOSE TITLE CONTAINING SOME KEY WORDS \*/***CREATE VIEW** diary\_id\_search\_keywords **as** (  
 **SELECT DISTINCT diary\_id**, **title  
 FROM** diary  
 **WHERE title LIKE '%DB%' AND** ((**publicity\_level** <= 2  
 **AND user\_id IN** (**SELECT user\_id  
 FROM** friend\_of\_2)  
 ) **OR** (**publicity\_level** <= 1  
 **AND user\_id IN** (**SELECT** user\_id  
 **FROM** fof\_of\_2)  
 ) **OR  
 publicity\_level** = 0)  
);



*/\*a list of all diary entries by his friends during the last week\*/* **SELECT diary\_id**, **title  
 FROM** diary  
 **WHERE user\_id IN** (**SELECT** user\_id **FROM** friend\_of\_1)  
 **AND** (diary.**create\_timestamp** > *now*()::**TIMESTAMP** - **INTERVAL '7 day'  
 OR** diary.**last\_update\_timestamp** > *now*()::**TIMESTAMP** - **INTERVAL '7 day'**);



*/\*ADD COMMENTS TO OTHER USERS PAGE\*/***INSERT INTO** greeting **VALUES**(1, **'Hello TOM! I am JACK'**, 0, 1, 2);  
**INSERT INTO** greeting **VALUES**(2, **'Hello JACK! I am TOM'**, 0, 2, 1);  
**INSERT INTO** greeting **VALUES**(3, **'Hello TOM! I am JACK'**, 0, 2, 4);  
**INSERT INTO** greeting **VALUES**(4, **'Hello JACK! I am TOM'**, 0, 3, 2);



*/\*search all greetings posted by her friends anywhere, or by others at her friends’ pages\*/***SELECT id**, **body  
FROM** greeting  
**WHERE** (**by\_user\_id IN** (**SELECT** user\_id **FROM** friend\_of\_1)) **OR** (**to\_user\_id IN** (**SELECT** user\_id **FROM** friend\_of\_1));

