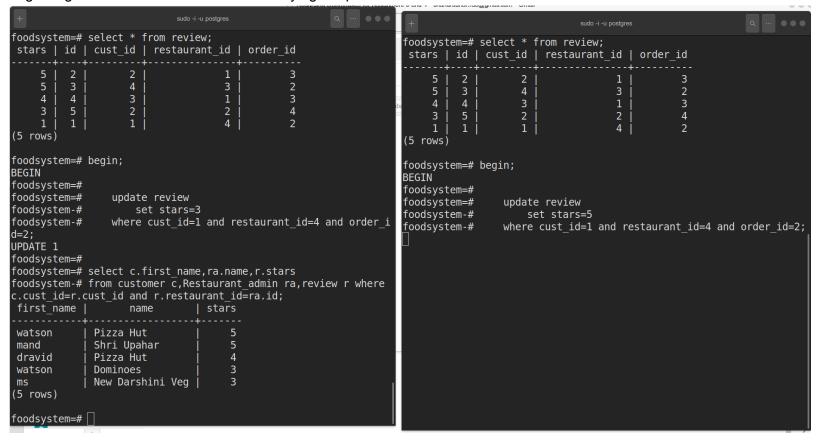
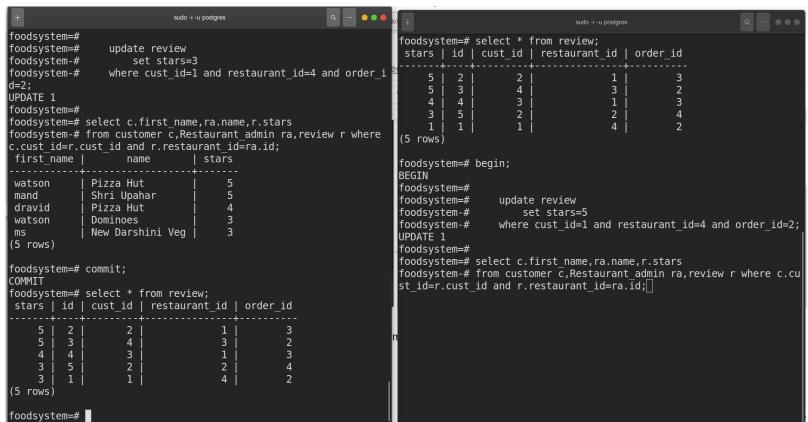
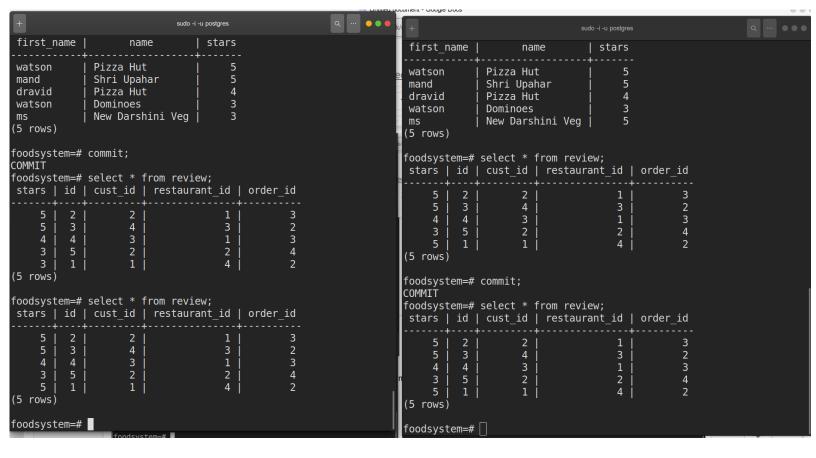
Beginning transaction in one terminal and trying to update the same record is not allowed and it is blocked as shown:



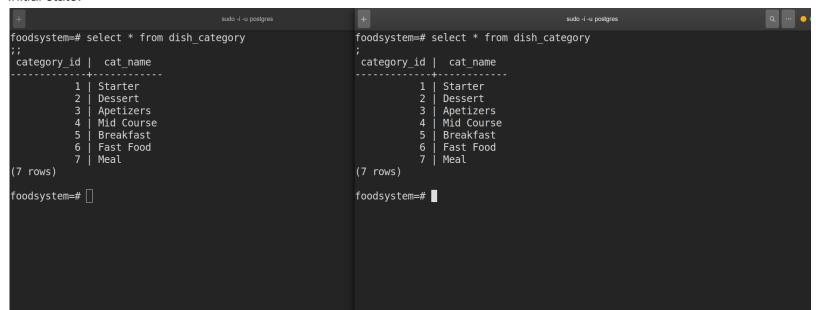
The moment we commit transaction 1,the transaction on terminal 2 is allowed to proceed after unblocking. Also the transaction 1 is committed:



As we can see that upon vomiting on right hand side terminal, the change is reflected even in left hand side:



Initial state:



Begin transaction on one:

```
sudo -i -u postgres
           4
               Mid Course
                                                               foodsystem=# select * from dish_category
               Breakfast
               Fast Food
                                                                category_id | cat_name
               Meal
(7 rows)
                                                                          1 |
                                                                              Starter
                                                                          2 j
                                                                              Dessert
foodsystem=# begin;
                                                                          3
                                                                              Apetizers
BEGIN
                                                                              Mid Course
foodsystem=#
                  delete from dish category
                                                                              Breakfast
foodsystem-#
                 where cat name='\overline{S}tarter';
                                                                              Fast Food
                                                                              Meal
DELETE 1
                                                               (7 rows)
foodsystem=#
                 select * from dish_category;
foodsystem=#
category_id | cat_name
                                                               foodsystem=#
           2
               Dessert
               Apetizers
               Mid Course
               Breakfast
               Fast Food
               Meal
(6 rows)
```

When trying to do transaction on other, it is blocked

```
Mid Course
                                                             foodsystem=# select * from dish_category
               Breakfast
           6
               Fast Food
                                                              category_id | cat_name
               Meal
7 rows)
                                                                         1 |
                                                                             Starter
                                                                             Dessert
oodsystem=# begin;
                                                                             Apetizers
BEGIN
                                                                             Mid Course
                                                                         4
foodsystem=#
                 delete from dish category
                                                                         5
                                                                             Breakfast
foodsystem-#
                 where cat name='Starter';
                                                                         6
                                                                             Fast Food
DELETE 1
                                                                             Meal
foodsystem=#
                                                             (7 rows)
oodsystem=#
                 select * from dish category;
category_id |
                cat name
                                                             foodsystem=# begin;
                                                             BEGIN
               Dessert
                                                             foodsystem=#
                                                                               delete from dish category
                                                                               where cat name='Starter';
                                                             foodsystem-#
               Apetizers
           4
               Mid Course
           5
               Breakfast
               Fast Food
               Meal
6 rows)
foodsystem=# \square
```

When we commit on the left terminal, right terminal is woken from blocked state and the 'starter' dish category is removed/deleted from the table.

We also see that the right hand terminal tells that ero deleted because it was allowed to execute only after transaction one finished which had already deleted the value.

Hence left terminal had blocked the db.

```
sudo -i -u postgres
           6
               Fast Food
                                                                         Mid Course
                                                                         Breakfast
               Meal
                                                                    6
                                                                         Fast Food
7 rows)
                                                                         Meal
foodsystem=# begin;
                                                         (7 rows)
BEGIN
foodsystem=#
                 delete from dish category
                                                         foodsystem=# begin;
                                                         BEGIN
foodsystem-#
                 where cat name='Starter';
DELETE 1
                                                         foodsystem=#
                                                                           delete from dish category
                                                        foodsystem-#
DELETE 0
oodsystem=#
                                                                           where cat name='Starter';
oodsystem=#
                 select * from dish_category;
category_id |
               cat name
                                                         foodsystem=#
                                                         foodsystem=#
                                                                           select * from dish category;
           2
               Dessert
                                                          category id |
                                                                          cat name
           3
               Apetizers
           4
               Mid Course
                                                                         Dessert
               Breakfast
                                                                         Apetizers
           6
               Fast Food
                                                                         Mid Course
                                                                    5
               Meal
                                                                         Breakfast
                                                                         Fast Food
6 rows)
                                                                    6
                                                                         Meal
foodsystem=# commit;
                                                         (6 rows)
COMMIT
foodsystem=#
                                                         foodsystem=#
```

Committing on the right terminal:

