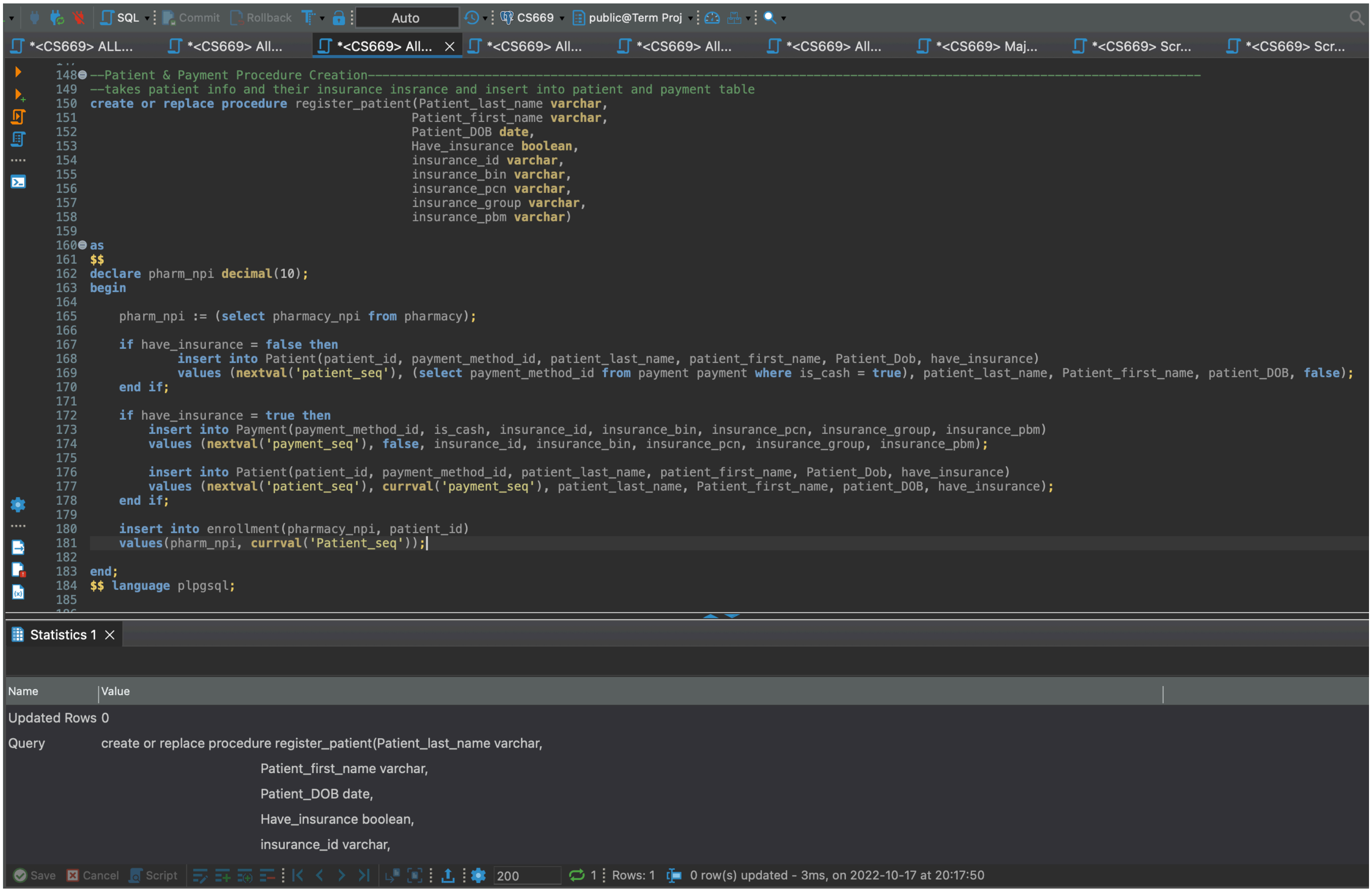
Registering patient and payments method procedure

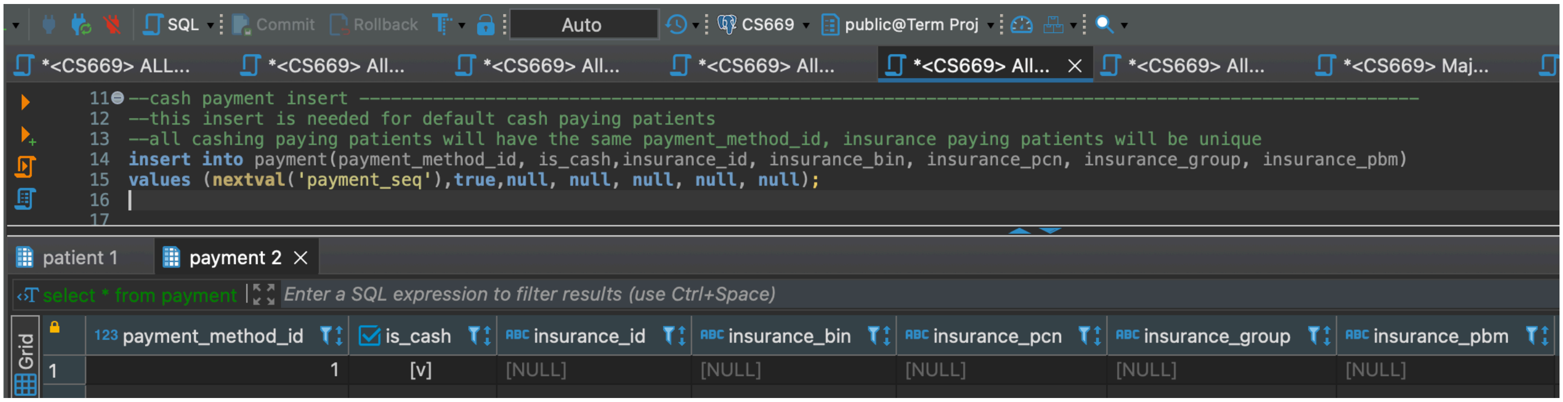


```sql
--Patient & Payment Procedure Creation-----------------------------------------------------------------------------------------------------
--takes patient info and their insurance insrance and insert into patient and payment table
create or replace procedure register_patient(Patient_last_name varchar,
                                             Patient_first_name varchar,
                                             Patient_DOB date,
                                             Have_insurance boolean,
                                             insurance_id varchar,
                                             insurance_bin varchar,
                                             insurance_pcn varchar,
                                             insurance_group varchar,
                                             insurance_pbm varchar)

as
$$
declare pharm_npi decimal(10);
begin

    pharm_npi := (select pharmacy_npi from pharmacy);

    if have_insurance = false then
            insert into Patient(patient_id, payment_method_id, patient_last_name, patient_first_name, Patient_Dob, have_insurance)
            values (nextval('patient_seq'), (select payment_method_id from payment payment where is_cash = true), patient_last_name, Patient_first_name, patient_DOB, false);
    end if;

    if have_insurance = true then
        insert into Payment(payment_method_id, is_cash, insurance_id, insurance_bin, insurance_pcn, insurance_group, insurance_pbm)
        values (nextval('payment_seq'), false, insurance_id, insurance_bin, insurance_pcn, insurance_group, insurance_pbm);

        insert into Patient(patient_id, payment_method_id, patient_last_name, patient_first_name, Patient_Dob, have_insurance)
        values (nextval('patient_seq'), currval('payment_seq'), patient_last_name, Patient_first_name, patient_DOB, have_insurance);
    end if;

    insert into enrollment(pharmacy_npi, patient_id)
    values(pharm_npi, currval('Patient_seq'));

end;
$$ language plpgsql;
```

```
Name          Value
Updated Rows  0
Query         create or replace procedure register_patient(Patient_last_name varchar,
                                 Patient_first_name varchar,
                                 Patient_DOB date,
                                 Have_insurance boolean,
                                 insurance_id varchar,
```

```
1  Rows: 1   0 row(s) updated - 3ms, on 2022-10-17 at 20:17:50
```

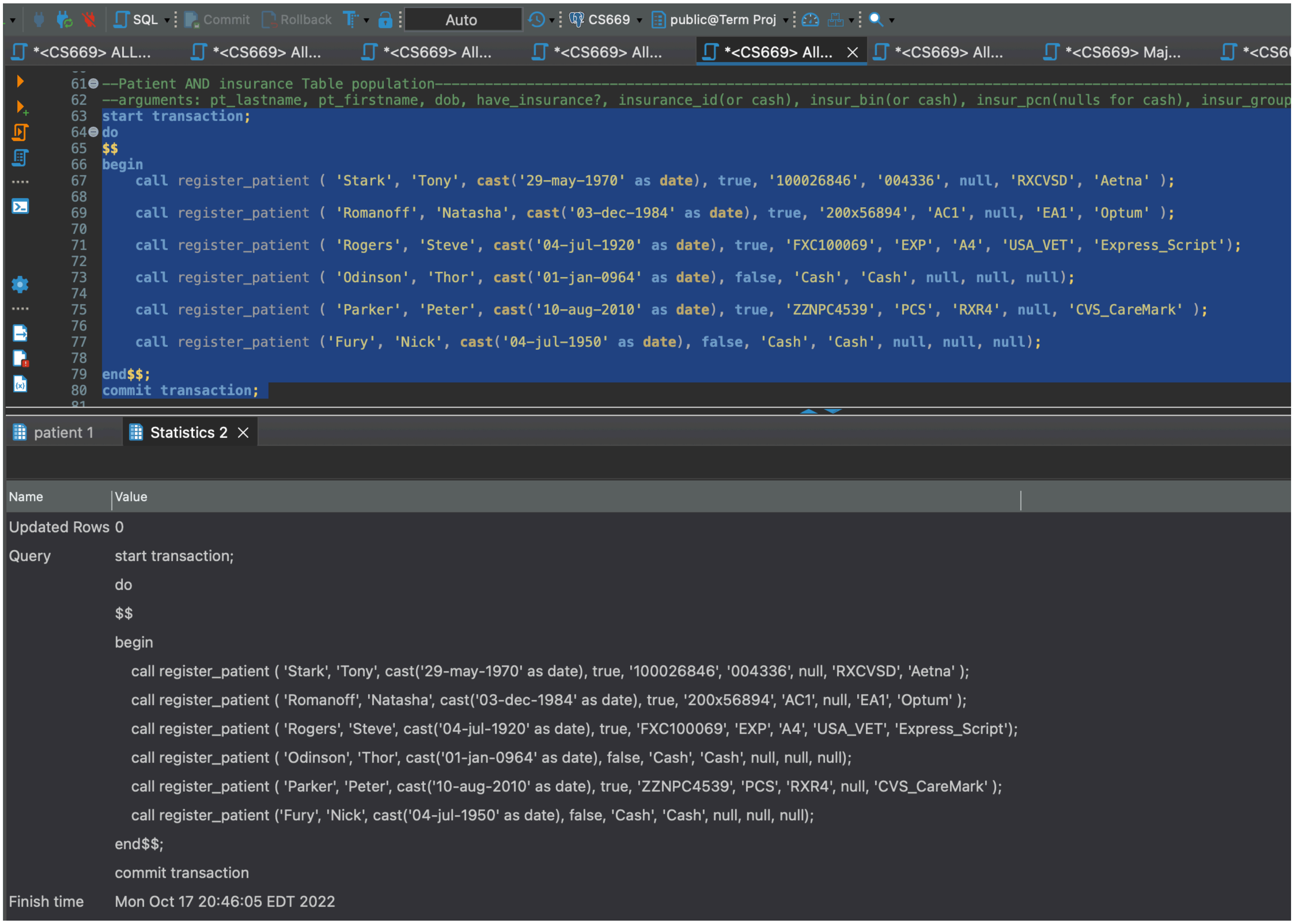
Before this procedure is executed and after the creation of the payment table, a default cash payment is inserted into the payment table. This is to relate cash paying patient to the same payment_method_id. Also Cash paying patient will have null for all insurance information.



```sql
--cash payment insert -------------------------------------------------------------------------------------------
--this insert is needed for default cash paying patients
--all cashing paying patients will have the same payment_method_id, insurance paying patients will be unique
insert into payment(payment_method_id, is_cash,insurance_id, insurance_bin, insurance_pcn, insurance_group, insurance_pbm)
values (nextval('payment_seq'),true,null, null, null, null, null);
```

select * from payment

	payment_method_id	is_cash	insurance_id	insurance_bin	insurance_pcn	insurance_group	insurance_pbm
1	1	[v]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]



```
--Patient AND insurance Table population------------------------------------------------------------------------------------------------
--arguments: pt_lastname, pt_firstname, dob, have_insurance?, insurance_id(or cash), insur_bin(or cash), insur_pcn(nulls for cash), insur_group
start transaction;
do
$$
begin
    call register_patient ( 'Stark', 'Tony', cast('29-may-1970' as date), true, '100026846', '004336', null, 'RXCVSD', 'Aetna' );

    call register_patient ( 'Romanoff', 'Natasha', cast('03-dec-1984' as date), true, '200x56894', 'AC1', null, 'EA1', 'Optum' );

    call register_patient ( 'Rogers', 'Steve', cast('04-jul-1920' as date), true, 'FXC100069', 'EXP', 'A4', 'USA_VET', 'Express_Script');

    call register_patient ( 'Odinson', 'Thor', cast('01-jan-0964' as date), false, 'Cash', 'Cash', null, null, null);

    call register_patient ( 'Parker', 'Peter', cast('10-aug-2010' as date), true, 'ZZNPC4539', 'PCS', 'RXR4', null, 'CVS_CareMark' );

    call register_patient ('Fury', 'Nick', cast('04-jul-1950' as date), false, 'Cash', 'Cash', null, null, null);

end$$;
commit transaction;
```

```
Name          Value
Updated Rows  0
Query         start transaction;
              do
              $$
              begin
                call register_patient ( 'Stark', 'Tony', cast('29-may-1970' as date), true, '100026846', '004336', null, 'RXCVSD', 'Aetna' );
                call register_patient ( 'Romanoff', 'Natasha', cast('03-dec-1984' as date), true, '200x56894', 'AC1', null, 'EA1', 'Optum' );
                call register_patient ( 'Rogers', 'Steve', cast('04-jul-1920' as date), true, 'FXC100069', 'EXP', 'A4', 'USA_VET', 'Express_Script');
                call register_patient ( 'Odinson', 'Thor', cast('01-jan-0964' as date), false, 'Cash', 'Cash', null, null, null);
                call register_patient ( 'Parker', 'Peter', cast('10-aug-2010' as date), true, 'ZZNPC4539', 'PCS', 'RXR4', null, 'CVS_CareMark' );
                call register_patient ('Fury', 'Nick', cast('04-jul-1950' as date), false, 'Cash', 'Cash', null, null, null);
              end$$;
              commit transaction
Finish time   Mon Oct 17 20:46:05 EDT 2022
```

The register_patient stored procedure will add data to 2 tables at once. The stored procedure takes patient's last name, first name, day of birth, have insurance (boolean), insurance_id, insurance_bin, insurance_pcn, insurance_group, and insurance_pbm. The last 5 attributes relating to insurance will be null if the have_insurance boolean is false.

If the have_insurance argument is false, then the patient table will populate a patient_id from 'patient_seq' sequence, and insert the patient information argument into the table. The payment_method_id will be a subquery from the payment table where is_cash is true, since a false have_insurance will indicate the patient is paying cash.

If the have_insurance is true, then insurance information in the arguments will be insert into the payment table along with the next value from the 'payment_seq' sequence and is_cash attribute will be false. Also, when the have_insurance condition is true, patient information is inserted into the patient table. But the insert patient will have the current 'payment_seq' sequence as their payment_method_id.