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Group: BD-2008

Assignment 4.

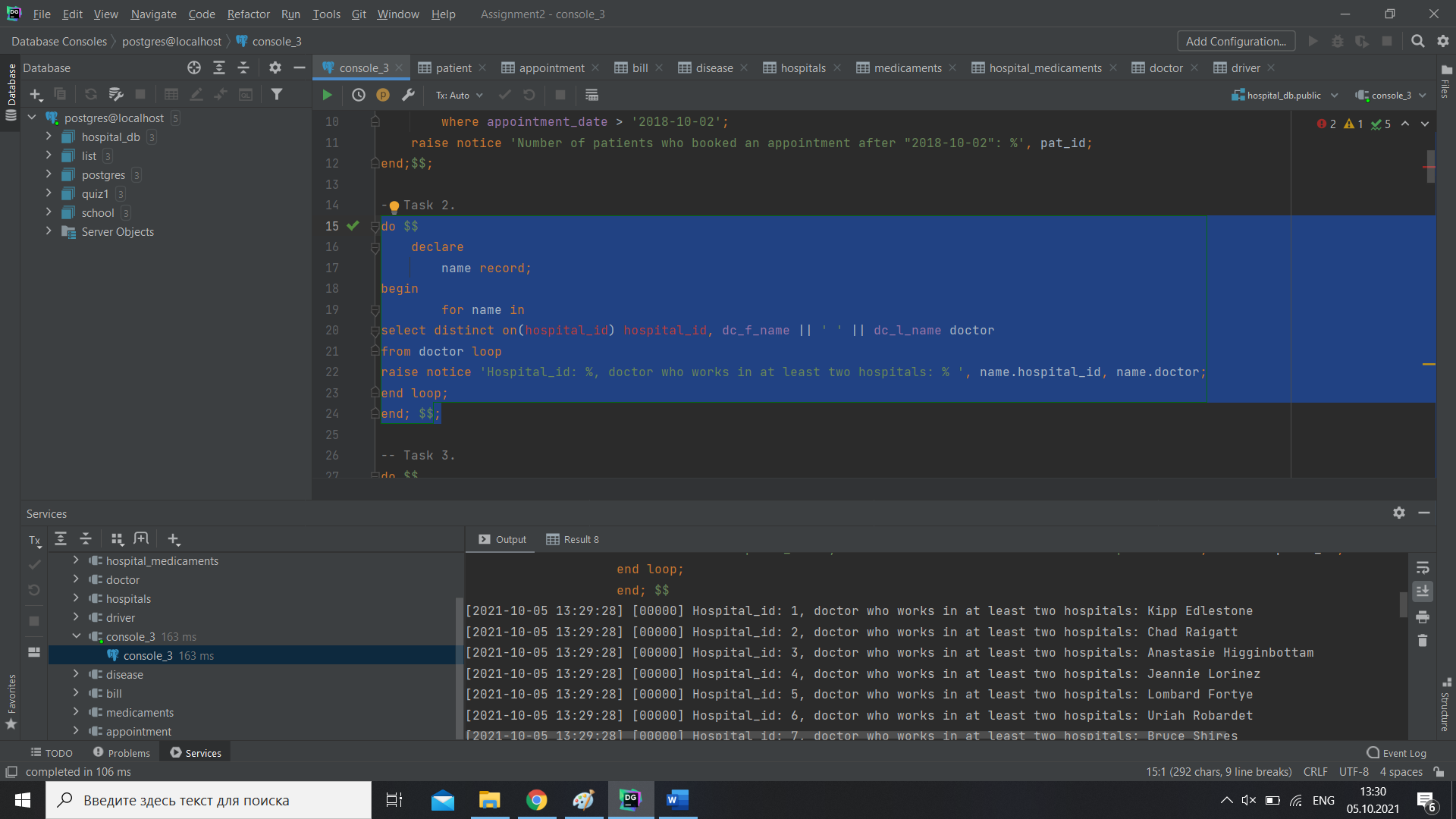
1. Write a SQL query to count the number of patients who booked an appointment after 2nd of October, 2018. (5 points).

Изображение выглядит как текст, снимок экрана, монитор, внутренний

Автоматически созданное описание

do $$  
 declare  
 pat\_id appointment.patient\_id%type;  
 begin  
 select count(patient\_id)  
 into pat\_id  
 from appointment  
 where appointment\_date > '2018-10-02';  
 raise notice 'Number of patients who booked an appointment after "2018-10-02": %', pat\_id;  
end;$$;

1. Write an SQL statement to find the doctors that work in less than two hospitals.(5 points).



do $$  
 declare  
 name record;  
begin  
 for name in  
select distinct on(hospital\_id) hospital\_id, dc\_f\_name || ' ' || dc\_l\_name doctor  
from doctor loop  
raise notice 'Hospital\_id: %, doctor who works in at least two hospitals: % ', name.hospital\_id, name.doctor;  
end loop;  
end; $$;

1. Write a SQL query to find the patients with their doctors by whom they got their treatment.(10 points).

Изображение выглядит как текст

Автоматически созданное описание

do $$  
 declare  
 al record;  
begin  
for al in  
select ptn\_f\_name, ptn\_l\_name, dc\_f\_name, dc\_l\_name  
from patient  
inner join appointment  
on patient.patient\_id = appointment.patient\_id  
inner join doctor  
on appointment.doctor\_id = doctor.doctor\_id  
where appointment\_id > 0 loop  
raise notice 'Patient % % got their treatment with doctor: % %', al.ptn\_f\_name, al.ptn\_l\_name, al.dc\_f\_name, al.dc\_l\_name;  
end loop;  
end; $$;

1. Write a SQL query to count number of unique patients who got an appointment.(5 points).

Изображение выглядит как текст, снимок экрана, монитор, компьютер

Автоматически созданное описание

do $$  
 declare  
 unique\_patients appointment.patient\_id%type;  
 begin  
 select count(DISTINCT appointment.patient\_id)  
 into unique\_patients  
 from appointment;  
 raise notice 'Number of unique patients who got an appointment: %', unique\_patients;  
end;$$;

1. Write a SQL query to find those patients who taken the appointment on the “2008-04-09”. (5 points).

Изображение выглядит как текст, снимок экрана, монитор, внутренний

Автоматически созданное описание

do $$  
 declare  
 pat record;  
begin  
 for pat in  
select ptn\_f\_name, ptn\_l\_name  
from patient  
inner join appointment  
on patient.patient\_id = appointment.patient\_id  
where appointment\_date = '2008-04-09' loop  
raise notice 'Patient who taken the appointment on the “2008-04-09”: % %', pat.ptn\_f\_name, pat.ptn\_l\_name;  
end loop;  
end; $$;

1. Write a SQL query to find the appointment that have the largest bill paid by patient. (5 points).

Изображение выглядит как текст, монитор, снимок экрана, компьютер

Автоматически созданное описание

do $$  
 declare  
 largest record;  
begin  
 for largest in  
select bill\_price  
from bill  
inner join appointment  
 on bill.bill\_id = appointment.bill\_id  
 where bill\_price = (select max(bill\_price) from bill) loop  
raise notice 'The largest bill paid by patient: %', largest.bill\_price;  
end loop;  
end; $$;

1. Write a SQL query to find the doctor f\_name and doctor l\_name working in each hospital. (5 points).

Изображение выглядит как текст, монитор, снимок экрана, черный

Автоматически созданное описание

do $$  
 declare  
 each record;  
begin  
for each in  
select dc\_f\_name, dc\_l\_name, hospital\_name  
from doctor  
inner join hospitals  
on hospitals.hospital\_id = doctor.hospital\_id  
where doctor.doctor\_id > 0 loop  
raise notice 'Doctor % % working in % hospital', each.dc\_f\_name, each.dc\_l\_name, each.hospital\_name;  
end loop;  
end; $$;

1. Write a SQL query to find all doctors who treat “COVID-19”. (10 points).

Изображение выглядит как текст, снимок экрана, компьютер, ноутбук

Автоматически созданное описание

do $$  
 declare  
 drs record;  
begin  
for drs in  
select dc\_f\_name, dc\_l\_name  
from doctor  
inner join appointment  
on doctor.doctor\_id = appointment.doctor\_id  
inner join disease  
on appointment.disease\_id = disease.disease\_id  
where disease\_name = 'COVID-19' loop  
raise notice '% % treats "COVID-19"', drs.dc\_f\_name, drs.dc\_l\_name;  
end loop;  
end; $$;

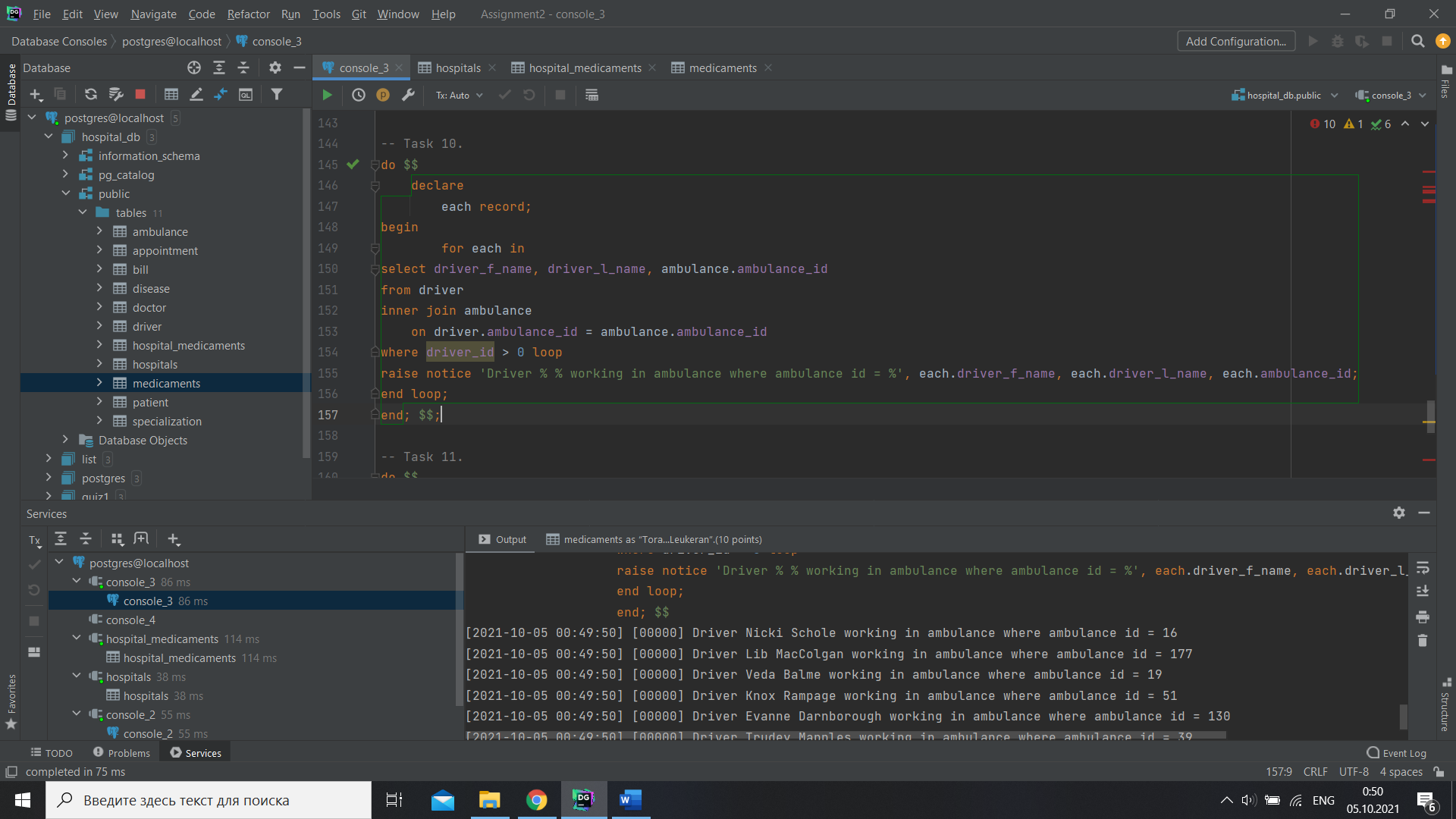
1. Write a SQL query to find all doctors who doesn’t have an appointment on date “2018-06-25”. (5 points).

Изображение выглядит как текст, монитор, снимок экрана, компьютер

Автоматически созданное описание

do $$  
 declare  
 doc record;  
begin  
 for doc in  
select dc\_f\_name, dc\_l\_name  
from doctor  
inner join appointment  
on doctor.doctor\_id = appointment.doctor\_id  
where appointment\_date != '2018-06-25' loop  
raise notice 'Doctors who doesn’t have an appointment on date "2018-06-25" % %', doc.dc\_f\_name, doc.dc\_f\_name;  
end loop;  
end; $$;

1. Write a SQL query to find the driver f\_name driver l\_name working in each ambulance. (5 points).



do $$  
 declare  
 each record;  
begin  
 for each in  
select driver\_f\_name, driver\_l\_name, ambulance.ambulance\_id  
from driver  
inner join ambulance  
 on driver.ambulance\_id = ambulance.ambulance\_id  
where driver\_id > 0 loop  
raise notice 'Driver % % working in ambulance where ambulance id = %', each.driver\_f\_name, each.driver\_l\_name, each.ambulance\_id;  
end loop;  
end; $$;

1. Write a SQL query to find the addresses of the hospitals which have in stock medicaments as “Toradol” and “Leukeran”.(10 points).

Изображение выглядит как текст, снимок экрана, монитор

Автоматически созданное описание

do $$  
 declare  
 med record;  
begin  
 for med in  
select hospital\_address  
from hospitals  
inner join hospital\_medicaments  
on hospitals.hospital\_id = hospital\_medicaments.hospital\_id  
inner join medicaments  
on medicaments.medicament\_id = hospital\_medicaments.medicament\_id  
where medicament\_name = 'Toradol' or medicament\_name = 'Leukeran' loop  
raise notice 'Addresses of the hospitals which have "Toradol" or "Leukeran:" %', med.hospital\_address;  
end loop;  
end; $$;

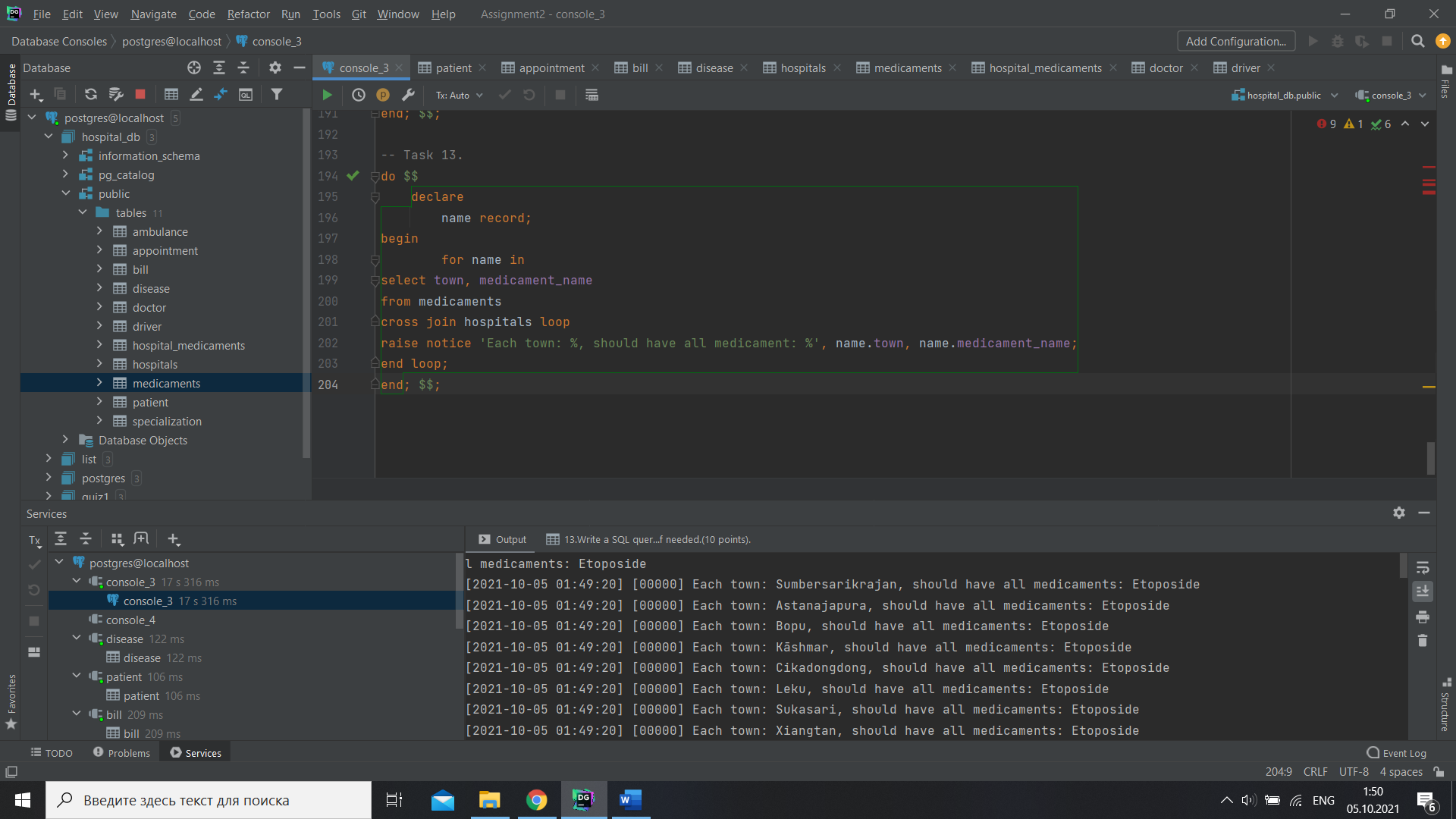
1. Write a SQL query using Self Join. Change the database if needed. (10 points).

Изображение выглядит как текст

Автоматически созданное описание

do $$  
 declare  
 name record;  
begin  
 for name in  
select p.ptn\_f\_name || ' ' || p.ptn\_l\_name patient,  
 d.dc\_f\_name || ' ' || d.dc\_l\_name doctor  
from patient p  
inner join appointment a  
on p.patient\_id = a.patient\_id  
inner join doctor d  
on a.doctor\_id = d.doctor\_id loop  
raise notice 'Patient: %, Doctor: %', name.patient, name.doctor;  
end loop;  
end; $$;

1. Write a SQL query using Сross Join. Change the database if needed.(10 points).



do $$  
 declare  
 name record;  
begin  
 for name in  
select town, medicament\_name  
from medicaments  
cross join hospitals loop  
raise notice 'Each town: %, should have all medicament: %', name.town, name.medicament\_name;  
end loop;  
end; $$;

1. Write a SQL query using Natural Join. Change the database if needed.(10 points).

Изображение выглядит как текст, снимок экрана, черный, компьютер

Автоматически созданное описание

do $$  
 declare  
 new record;  
begin  
 for new in  
select medicament\_id, medicament\_name  
from medicaments  
natural join hospital\_medicaments loop  
raise notice 'Medicament id: %, medicament name: %', new.medicament\_id, new.medicament\_name;  
end loop;  
end; $$;