Laboratory work 8

1. Create a function that:
   a. Increments given values by 1 and returns it.
   b. Returns sum of 2 numbers.
   c. Returns true or false if numbers are divisible by 2.
   d. Checks some password for validity.
   e. Returns two outputs, but has one input.

2. Create a trigger that:
   a. Return timestamp of the occured action within the database.
   b. Computes the age of a person when persons' date of birth is inserted.
   c. Adds 12% tax on the price of the inserted item.
   d. Prevents deletion of any row from only one table.
   e. Launches functions 1.d and 1.e.

3.What is the difference between procedure and function?

4.Create procedures that:
   a) Increases salary by 10% for every 2 years of work experience and provides 10% discount and after 5 years adds 1% to the discount.
   b) After reaching 40 years, increase salary by 15%. If work experience is more than 8 years, increase salary for 15% of the already increased value for work experience and provide a constant 20% discount.

Consider the following schema for the task4:

5. Produce a CTE that can return the upward recommendation chain for any member. You should be able to `select recommender from recommenders where member=x`. Demonstrate it by getting the chains for members 12 and 22. Results table should have member and recommender, ordered by member ascending, recommender descending.

Consider the following schema for the task5:

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric