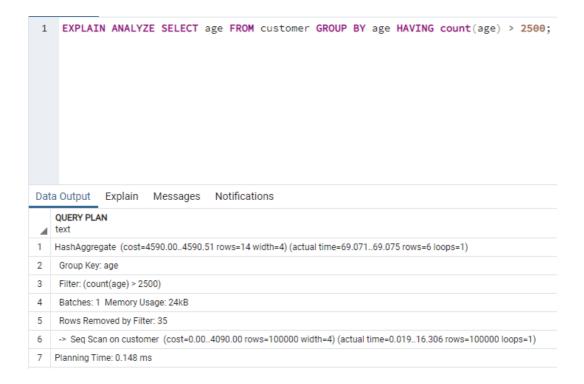
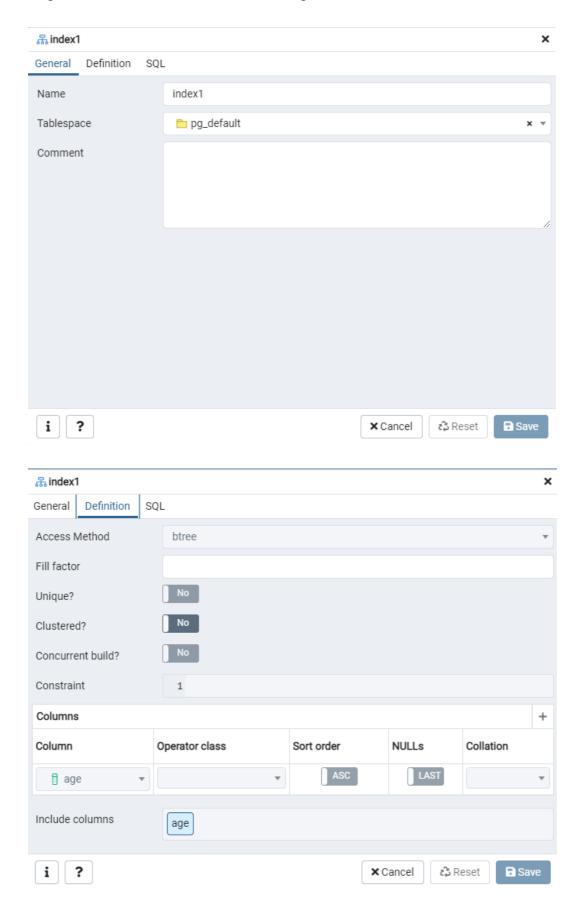
## Lab 5. Anna Startseva BS19-04

I created the database "customers" using python script (warm\_up.py). You can see it in repository.

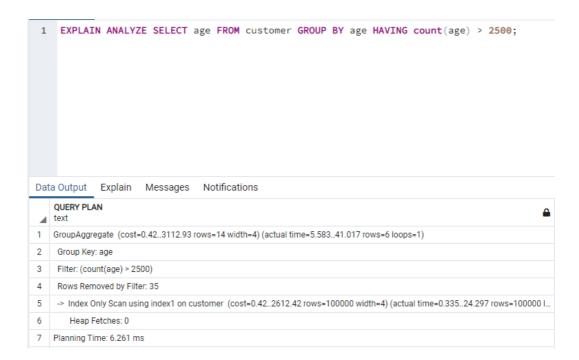
The first query shows all ages that are repeated more than 2500 times. See its cost in "Seq Scan...":



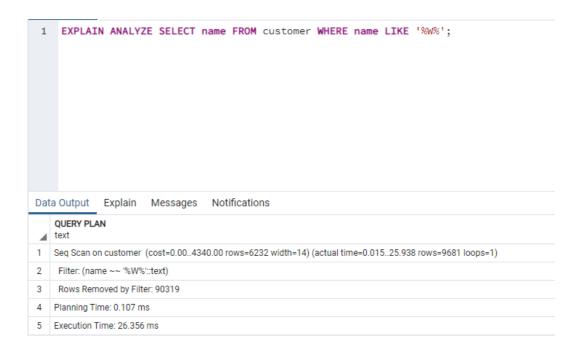
## Creating a b-tree index on the column "age":



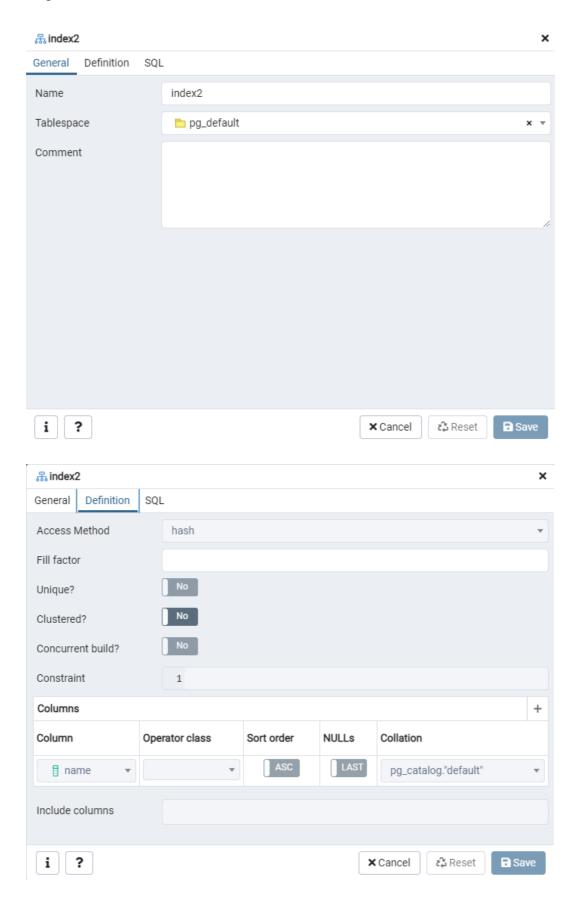
The cost of the query after creating b-tree index is lower:



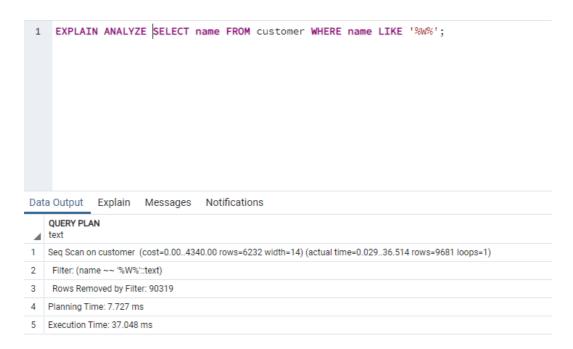
The second query shows all names of the customers which contain letter 'W'. See its cost in "Seq Scan...":



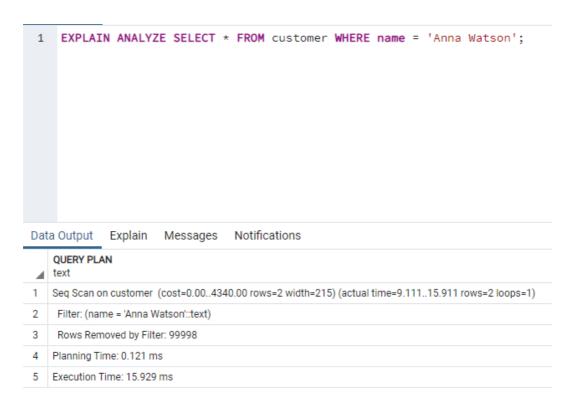
## Creating a hash index on the column "name":



The cost of the query after creating index doesn't change because hash indexes only effective when there is '=' operation:



So, I created the query with '=' operation that finds all customers with name "Anna Watson". See its cost in "Seq Scan...":



## The cost of the query after creating hash index is lower:

