Run the code in the "TASK-5A-1.py" file to generate the email and password requested in part 1.

The desired data was kept in a dataframe.

After this Run the code in the "Login.py" file to generate the tables on pgAdmin4.

After this Run the code in the "TASK-5A.py" file to insert the values to the tables on pgAdmin4.

Part 2 is over.

After this, we choose a 1000 e-mails and password from the dataframe

```
B=(A.sample(n = 1000))
print(B)
```

	E-Mail Adresses	Passwords
7099	qleonard@gmail.com	0$@F@!n#$F
5588	justin72@hotmail.com	)#tO_2Say4
4996	johnhutchinson@smith-gill.com	^8$AlKTq_u
2937	johnsonjesse@lutz-waters.com	UbK)8E8st$
3407	heatherscott@yahoo.com	^gZ8Hca+0F
6866	samuelramirez@yahoo.com	5Pz*V4TmHl
945	patricianguyen@hart-rice.info	_91TklIpns
4692	bwright@hotmail.com	@qSnRZxT00
1216	castanedalynn@hotmail.com	AvNLlMjn*6
9452	burnsdiane@gmail.com	&eXiT@CD9J
3428	samuel80@yahoo.com	+I2GH$8ma_
8034	john97@hotmail.com	d@7Ns_Fsw(
2259	samanthawhite@james.com	w$H6Yt_1C*
8540	robertmoyer@williams.org	7&z@^wBi%I
5891	tinaguzman@yahoo.com	SpG4A7Yr*4
1466	jacobsjeffrey@yahoo.com	e*5LN(plfV
5908	william90@davila-thompson.com	Enh@9$Dyp&
3462	anthony17@weiss.biz	5P^)mYHn*K

After this, we generate 10000 new data from e-mails and passwords and we check the same results in "checking.ipynb" file

```
        if e_mail_adresses[i]==e_mail_adresses2[k]:
            print(e_mail_adresses[i])
end_time=time.time()
print(end_time-start_time)
```

```
nsmith@gmail.com
nsmith@gmail.com
andreasmith@hotmail.com
ejohnson@yahoo.com
ijohnson@gmail.com
gpeters@gmail.com
pgreen@hotmail.com
stephaniejohnson@yahoo.com
smithmatthew@hotmail.com
ysmith@yahoo.com
ysmith@yahoo.com
david76@yahoo.com
lpatel@gmail.com
ucarter@hotmail.com
qjones@hotmail.com
jamesfields@yahoo.com
vasquezmatthew@yahoo.com
mark25@yahoo.com
15.494842767715454
```

And we calculate time = 15,494842 sn

After this we insert the values to the SQL

	E_Maills [PK] character (100)
	thompsonmichael@gmail.com
19	nroberts@yahoo.com
20	david60@hotmail.com
21	grivera@hotmail.com
22	jlewis@yahoo.com
23	xlee@gmail.com
24	bpatel@yahoo.com
25	ismith@yahoo.com
26	ldavis@hotmail.com
27	eanderson@gmail.com
28	qparker@gmail.com
29	hilljennifer@hotmail.com
30	bsmith@yahoo.com