

banco_pa004

June 26, 2023

```
[ ]: import pandas as pd
from sqlalchemy import create_engine, __version__

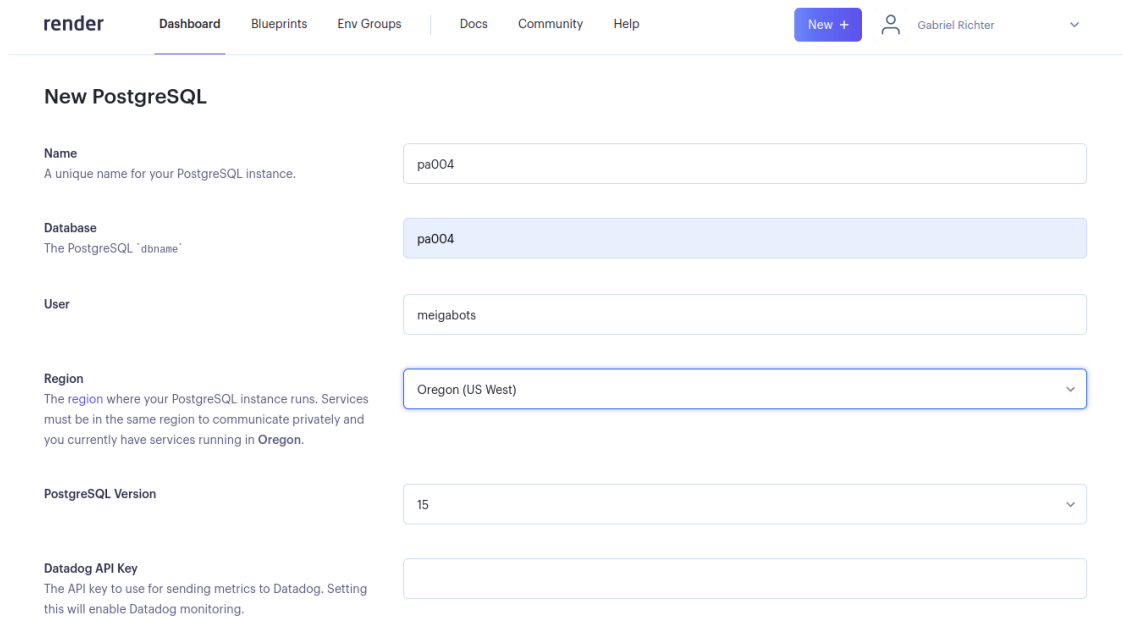
print("Pandas Version:", pd.__version__)
print("SQLAlchemy Version:", __version__)
```

Pandas Version: 2.0.0

SQLAlchemy Version: 1.4.47

Para subir o banco, basta entrar em: <https://dashboard.render.com/new/database>

Credenciais



The screenshot shows the 'New PostgreSQL' form on the Render dashboard. The form includes the following fields:

- Name:** A unique name for your PostgreSQL instance. Value: pa004
- Database:** The PostgreSQL 'dbname'. Value: pa004
- User:** Value: meigabots
- Region:** The region where your PostgreSQL instance runs. Services must be in the same region to communicate privately and you currently have services running in Oregon. Value: Oregon (US West)
- PostgreSQL Version:** Value: 15
- Datadog API Key:** The API key to use for sending metrics to Datadog. Setting this will enable Datadog monitoring. (Empty field)

Configurações da base

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Please enter your payment information to select an instance type with higher limits.

Instance Type	RAM	CPU	Storage	PITR	Price
<input checked="" type="radio"/> Free	256 MB	0.1 CPU	1 GB	×	\$0 / month
<input type="radio"/> Starter	256 MB	0.1 CPU	1 GB	×	\$7 / month
<input type="radio"/> Standard	1 GB	1 CPU	16 GB	×	\$20 / month
<input type="radio"/> Pro	4 GB	2 CPU	96 GB	✓	\$95 / month
<input type="radio"/> Pro Plus	8 GB	4 CPU	256 GB	✓	\$185 / month

Need a custom instance type? We support up to 512 GB RAM, 64 CPUs, and 5 TB storage.

Free databases will expire in 90 days and will be deleted if not upgraded. No automatic backups are created for free databases. Learn more about free instance type limits.

Create Database

Feedback Invite a Friend Contact Support

Depois disso, so clicar em dashboard e vai estar o seu banco criado, as credenciais ficam dentro do banco.

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POSTGRES pa004 Free Read the docs Connect

Info Metrics Recovery Logs

General

Name pa004 Edit

Created an hour ago

Expiration September 24, 2023

Status Available

PostgreSQL Version 15

Region Oregon (US West)

```
[ ]: creds = {
  'PG_DB': 'pa004',
  'PG_USER': 'meigabots',
  'PG_HOST': 'dpg-cicqrsd9aq03rjg3605g-a.oregon-postgres.render.com',
  'PG_PSWD': 'GG7VzQDxZY6DJuzOfSsKVNmxu7OnWCgW',
}
```

```

string_con = f"postgresql://{creds['PG_USER']}:{creds['PG_PSWD']}@{creds['PG_HOST']}/{creds['PG_DB']}"

engine = create_engine(string_con)
con = engine.connect()

# Para desconectar do banco
# con.close()

# Para matar a engine
# engine.dispose()

```

```
[ ]: # Inserir o CSV dentro do Banco
```

```

test = pd.read_csv("/home/grc/arep/test/db/test.csv")
train = pd.read_csv("/home/grc/arep/test/db/train.csv")

# Vou carregar tudo em varchar (object) mesmo.
test = test.astype('object')
train = train.astype('object')

# Colunas em uppercase
test.columns = [k.upper() for k in test.columns]
train.columns = [k.upper() for k in train.columns]

# Enfiar dentro do banco em uma nova tabela
# que vai ser automaticamente criada pelo pandas.
test.to_sql('train_table', con=con, if_exists='replace', index=False)
test.to_sql('test_table', con=con, if_exists='replace', index=False)

```

```
[ ]: # Ler uma do banco por uma query
```

```

df_train = pd.read_sql_query('select * from train_table', con=con)
df_train.head()

```

```
[ ]:
```

	ID	GENDER	AGE	DRIVING_LICENSE	REGION_CODE	PREVIOUSLY_INSURED	
0	1	Male	44	1	28.0	0	\
1	2	Male	76	1	3.0	0	
2	3	Male	47	1	28.0	0	
3	4	Male	21	1	11.0	1	
4	5	Female	29	1	41.0	1	

	VEHICLE_AGE	VEHICLE_DAMAGE	ANNUAL_PREMIUM	POLICY_SALES_CHANNEL	VINTAGE	
0	> 2 Years	Yes	40454.0	26.0	217	\
1	1-2 Year	No	33536.0	26.0	183	
2	> 2 Years	Yes	38294.0	26.0	27	
3	< 1 Year	No	28619.0	152.0	203	
4	< 1 Year	No	27496.0	152.0	39	

	RESPONSE
0	1
1	0
2	1
3	0
4	0

```
[ ]: df_test = pd.read_sql_query('select * from test_table', con=con)
df_test.head()
```

```
[ ]:
      ID GENDER  AGE  DRIVING_LICENSE  REGION_CODE  PREVIOUSLY_INSURED
0  381110   Male   25                1          11.0                1 \
1  381111   Male   40                1          28.0                0
2  381112   Male   47                1          28.0                0
3  381113   Male   24                1          27.0                1
4  381114   Male   27                1          28.0                1
```

	VEHICLE_AGE	VEHICLE_DAMAGE	ANNUAL_PREMIUM	POLICY_SALES_CHANNEL	VINTAGE
0	< 1 Year	No	35786.0	152.0	53
1	1-2 Year	Yes	33762.0	7.0	111
2	1-2 Year	Yes	40050.0	124.0	199
3	< 1 Year	Yes	37356.0	152.0	187
4	< 1 Year	No	59097.0	152.0	297

```
[ ]: con.close()
engine.dispose()
```