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# **Maximilian**

***Release 0.1.0***

**Equinox Fitness**

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# CONTENTS

<b>1</b>	<b>Quick Start</b>	<b>3</b>
<b>2</b>	<b>Installation</b>	<b>5</b>
<b>3</b>	<b>Prerequisites</b>	<b>7</b>
<b>4</b>	<b>Setting up</b>	<b>9</b>
<b>5</b>	<b>Development</b>	<b>11</b>
5.1	Testing . . . . .	11
5.2	Contributing . . . . .	11



Maximilian is a repository of ETLs and APIs for working with Equinox's AWS data environment.



## QUICK START

Sample run for rsqoop runner (look into [rsqoop\\_runner](#) folder for more details)

```
python -m rsqoop_runner.module -sc source_connection -tc target_connection -st source_
↪table -tt target_table
```

Sample run for mssql runner (look into [mssql\\_runner](#) folder for more details)

```
python -m mssql_runner.module -s "sample/mssql_runner_test.sql" -p "var1-cat, var2-dog
↪" -b '9999'
```

Sample run for script runner (look into [script\\_runner](#) folder for more details)

```
python -m script_runner.module -s "sample/script_runner_test.sql" -p "var1-cat, var2-
↪dog" -f '1980-12-31 07:00' -b '9999'
```





## INSTALLATION

maximilian requires Python 3.6+

```
git clone https://github.com/equinoxfitness/maximilian.git
```



## PREREQUISITES

You may need to install PostgreSQL:

```
brew install postgresql
```



## SETTING UP

### 1. Create virtual environment named **venv**

```
cd maximilian  
python3 -m venv venv
```

### 2. Activate virtual environment

```
source venv/bin/activate
```

3. Install any dependencies (this will install them into your virtual environment). Note: if you are installing psycopg2 on windows use [this](#).

```
pip install -r requirements.txt
```

### 4. Prepare the **etl.cfg** file in the root directory of the project.

```
[mssql key name]  
db_name=  
user=  
server=  
password=<encoded in base64>  
port=1433  
type=mssql  
  
[redshift/postgres key name]  
db_name=  
user=  
host=  
port=  
password=<encoded in base64>  
type=  
  
[general]  
temp_bucket = <s3 temp folder>  
temp_key = <s3 temp folder key>  
aws_access_key=  
aws_secret_key=  
env=test  
aws_region=us-east-1
```

### Example etl.cfg

```
[My_Mssql]  
db_name=My_Mssql
```

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```
user=any_user
server=websql
password=YW55IHBhc3N3b3Jk
port=1433
type=mssql

[My_Redshift]
db_name=My_Redshift
user=admin
host=any.host.com
port=5439
password=YW55IHBhc3N3b3Jk
type=postgres

[general]
temp_bucket = my_bucket
temp_key = my_key
aws_access_key= AKAASDLAFJKMADEUP
aws_secret_key= YYAKAaldjkasfMADEUP
env=test
aws_region=us-east-1
```

## DEVELOPMENT

### 5.1 Testing

```
pip install -r requirements-dev.txt
```

Modify the connection configuration for integration testing.

To run the testing suite, simply run the command: `python -m unittest discover tests`

For coverage report, run `tox` View the results in `.tox/coverage/index.html`

### 5.2 Contributing

Contributions to Maximilian are welcome!

Please reference guidelines to help with setting up your development environment [here](#).