# Setup The Environment

## Setup Python

1. Install Python 3.9 64 bit. Take note of the path Python is installed.

2. Create a working directory:

mkdir c:\autoregistry

3. Place autoregistry files in the newly created folder

4. Install Python libraries

cd c:\autoregistry

<python path>\python -m venv venv

venv\Scripts\activate.bat

pip install -r requirements.txt

# Loading Data

## Build Database

1. If this is the first execution, build a new database by running

C:\autoregistry\01-Build Database.bat

2. The above command creates a new database file called ner.db in C:\autoregistry\data

Name and location of the “data” folder can be configured in the .env file.

## Load Named Entity to SNOMED Term Matching

1. Named Entity to SNOMED ID lookup can be mapped by running:

C:\autoregistry\02-Load Terms.bat

2. When prompted, enter the full path to the lookup file. The lookup file should be a CSV with the following columns:

a) ne – the Named Entity that will be mapped to SNOMED ID

b) label – the Named Entity label.

c) snomed\_id – SNOMED ID

d) title - The SNOMED title that corresponds to the ID

\*Column order is not important. Column name is case sensitive

## Load Clinical Notes for Named Entity Recognition

1. Named Entity to SNOMED ID lookup can be mapped by running:

C:\autoregistry\03-Load Clinical Notes.bat

2. When prompted, enter the full path to the clinical notes data. The lookup file should be a CSV with the following columns:

a) encounter\_id – A unique ID for every patient visit.

b) mrn – A unique ID for every patient

c) notes – The Clinical Notes that will be parsed for Named Entities

3. Repeat the process above for each new batch of clinical notes.

\*Other columns will be loaded in as metadata. Column order is not important. Column name is case sensitive

## Parse Clinical Notes

1. All clinical notes that wasn’t previously parsed, will be parsed by running:

C:\autoregistry\04-Parse Clinical Notes.bat

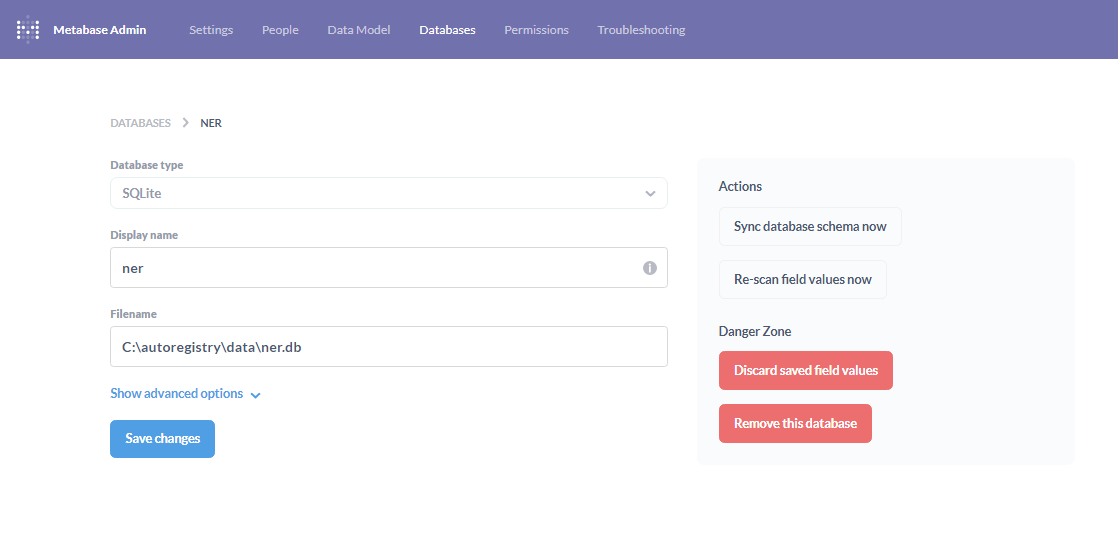
## Run TF-IDF Calculation

1. Recalculate TF-IDF score for all named entities

C:\autoregistry\05-Calc TFIDF.bat

## Refresh Data in Metabase

1. Login to Metabase
2. Open Metabase Admin
3. Click on Databases
4. Select “ner” database
5. Click on “Sync database schema now”



# Accessing Data

## Launch Metabase Server

1. Launch the server by running:

C:\autoregistry\run\_metabase.bat

## Accessing Metabase

1. Browse to [http://localhost:3000](http://localhost:3000/)

2. Login with the following credentials:

Username: guest@metabase.com

Password: metabase123