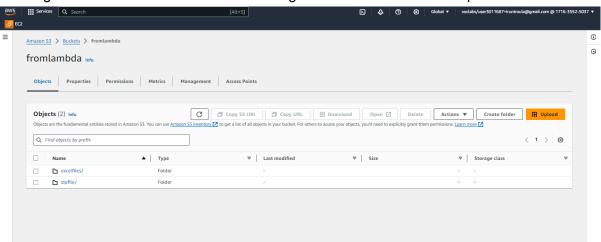
# Task 2: Python and Lambda

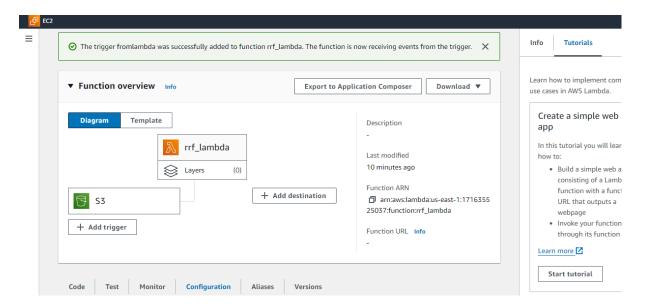
Work with RXNORM file,

- 1. Scrap the latest RXNORM file from NLM webpage
- 2. Download the latest RXNORM file with api key
- 3. Create a log file for the downloaded file
- 4. Add header into each rff from RXNORM.xlsx
- 5. Add CODE\_SET & VERSION\_MONTH column with default values RxNorm and version month from downloaded filename
- 6. Convert dates into YYYY-MM-DD
- 7. Save files as txt delimited by comma(,)
- 8. Validate row\_count between original and converted files

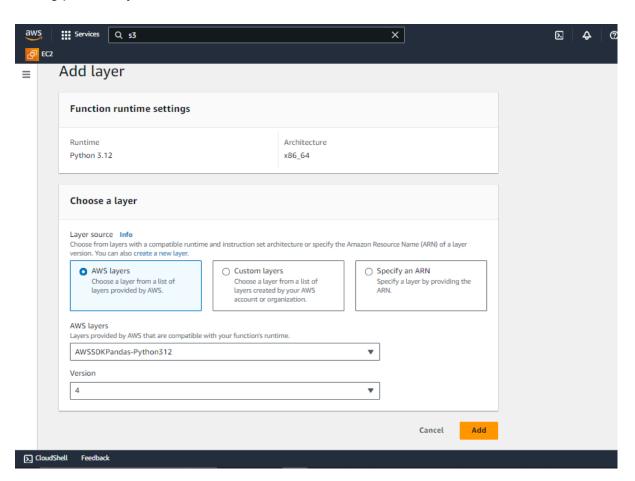
## Creating S3 bucket "fromlambda" and creating folders "excelfiles" and "zipfile"



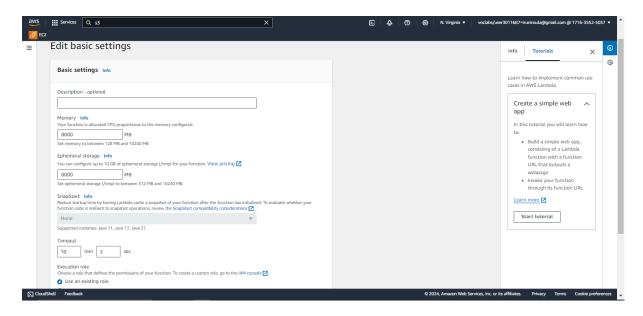
# Creating Lambda function and adding S3 bucket as trigger



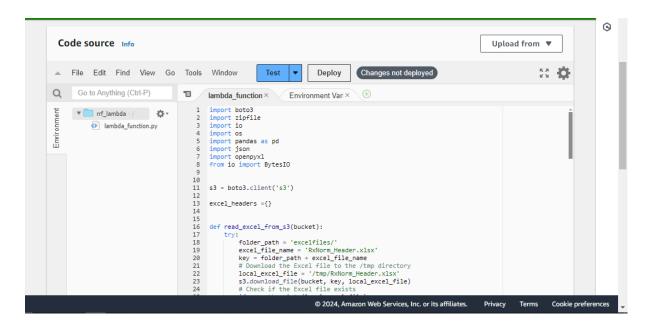
## Adding pandas layer to lambda function



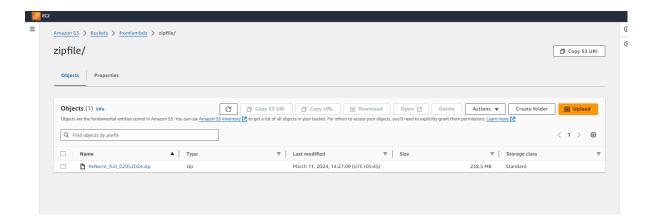
# Changing lambda configuration



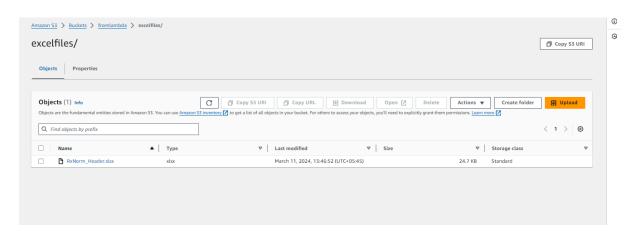
#### Adding code to execute in lambda



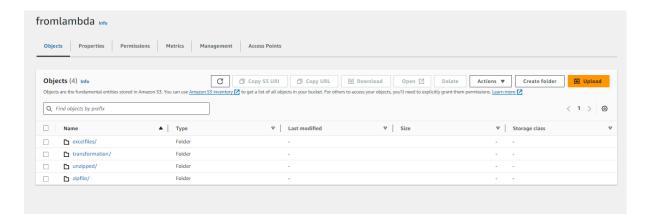
## Uploading zip file in the designated folder



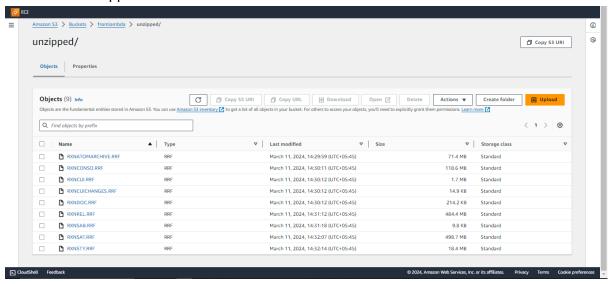
# Uploading excel file in the designated folder



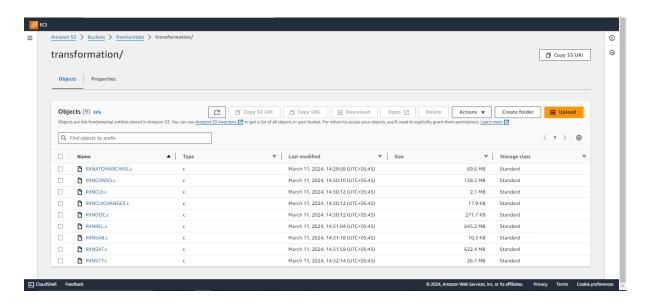
unzipped/ and transformation/ folders were created after lambda was triggered.



#### Contents of unzipped folder



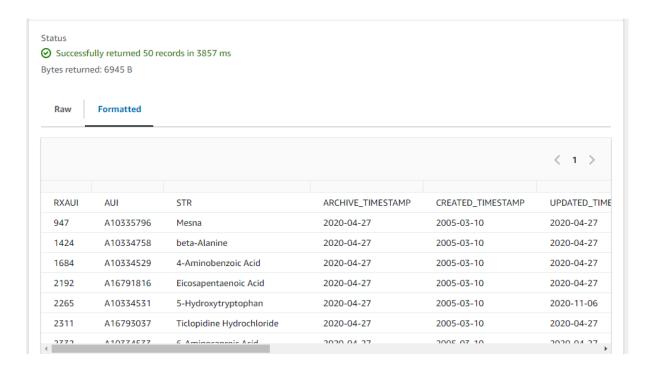
#### Contents of transformation folder



#### Comma separated values form RXNATOMARCHIVE.c



#### Formatted view of the file contents



# Validating row counts before and after

| • | 2024-03-11T14:30:02.466+05:45 | Row count before transformation: 1133065             |
|---|-------------------------------|--|
| • | 2024-03-11T14:30:02.466+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:30:02.475+05:45 | Row count of RXNCONSO after transformation: 1133065  |
|   |                               |  |
| • | 2024-03-11T14:30:11.008+05:45 | Row count before transformation: 153                 |
| • | 2024-03-11T14:30:11.008+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:30:11.009+05:45 | Row count of RXNCUICHANGES after transformation: 153 |
|   |                               |  |
| • | 2024-03-11T14:30:11.136+05:45 | Row count before transformation: 30046               |
| • | 2024-03-11T14:30:11.137+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:30:11.138+05:45 | Row count of RXNCUI after transformation: 30046      |
|   |                               |  |
| • | 2024-03-11T14:30:11.387+05:45 | Row count before transformation: 3445                |
| • | 2024-03-11T14:30:11.388+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:30:11.388+05:45 | Row count of RXNDOC after transformation: 3445       |
|   |                               |  |
| • | 2024-03-11T14:30:24.547+05:45 | Row count before transformation: 7154306             |
| • | 2024-03-11T14:30:24.547+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:30:24.613+05:45 | Row count of RXNREL after transformation: 7154306    |
|   |                               |  |
| • | 2024-03-11T14:31:17.319+05:45 | Row count before transformation: 13                  |
| • | 2024-03-11T14:31:17.325+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:31:17.325+05:45 | Row count of RXNSAB after transformation: 13         |
|   |                               |  |
| • | 2024-03-11T14:32:12.579+05:45 | Row count before transformation: 461874              |
| • | 2024-03-11T14:32:12.579+05:45 | Version month: 2024-02-05                            |
| • | 2024-03-11T14:32:12.583+05:45 | Row count of RXNSTY after transformation: 461874     |
|   |                               |  |