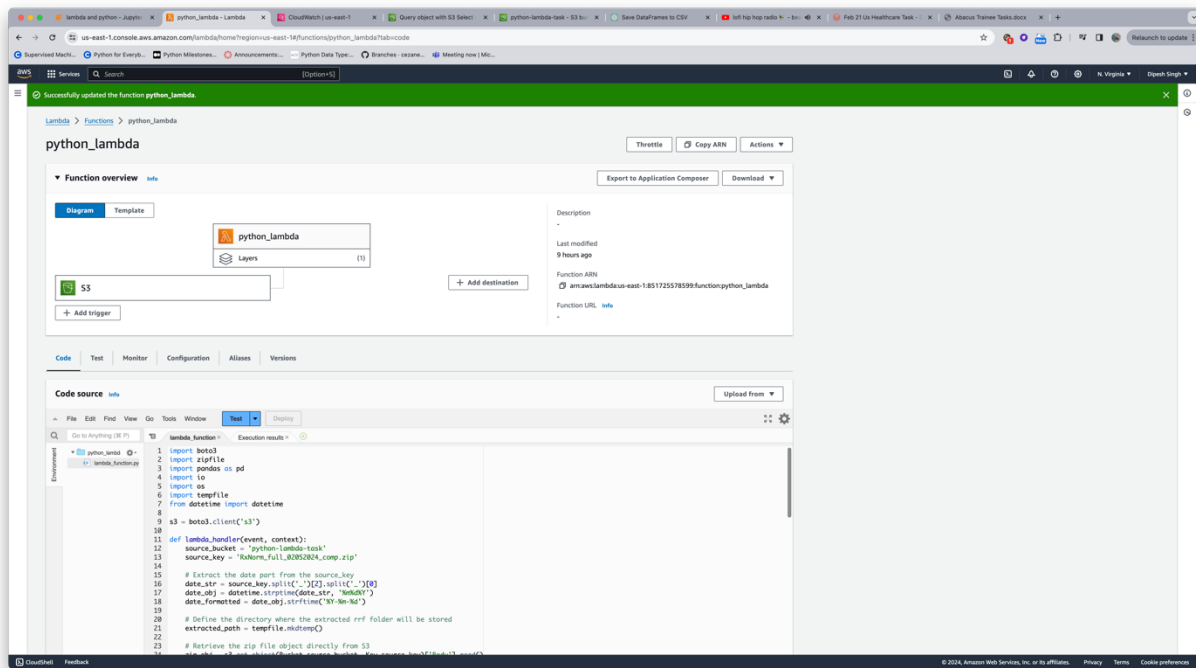


Task 2 : Python and Lambda

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

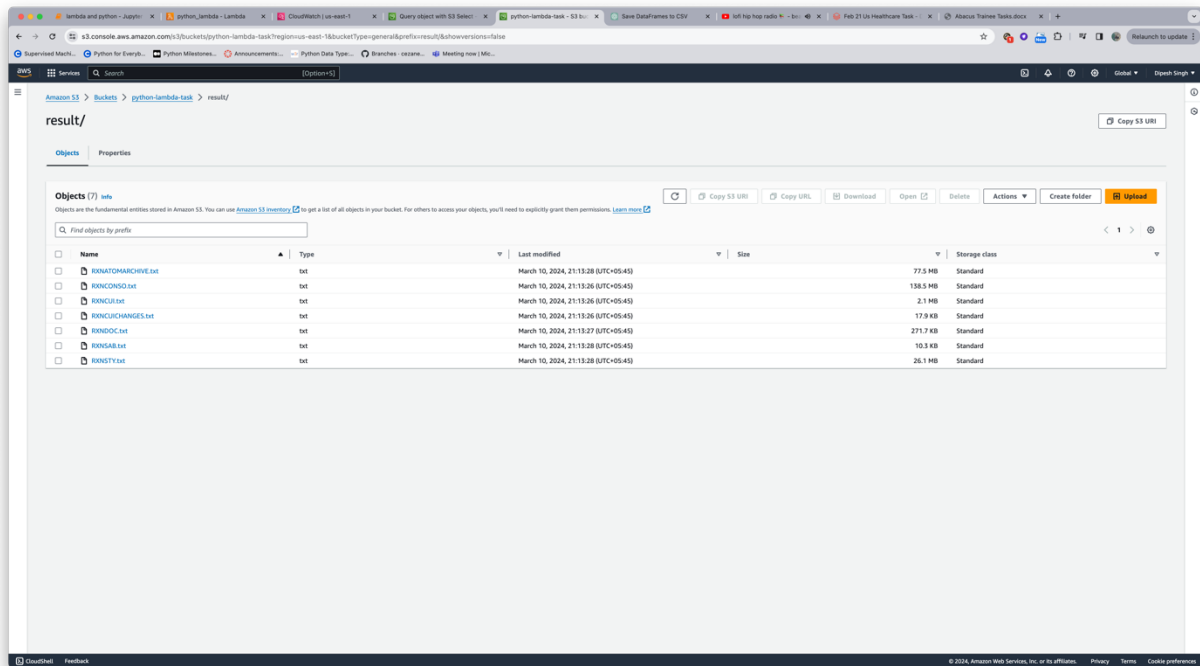
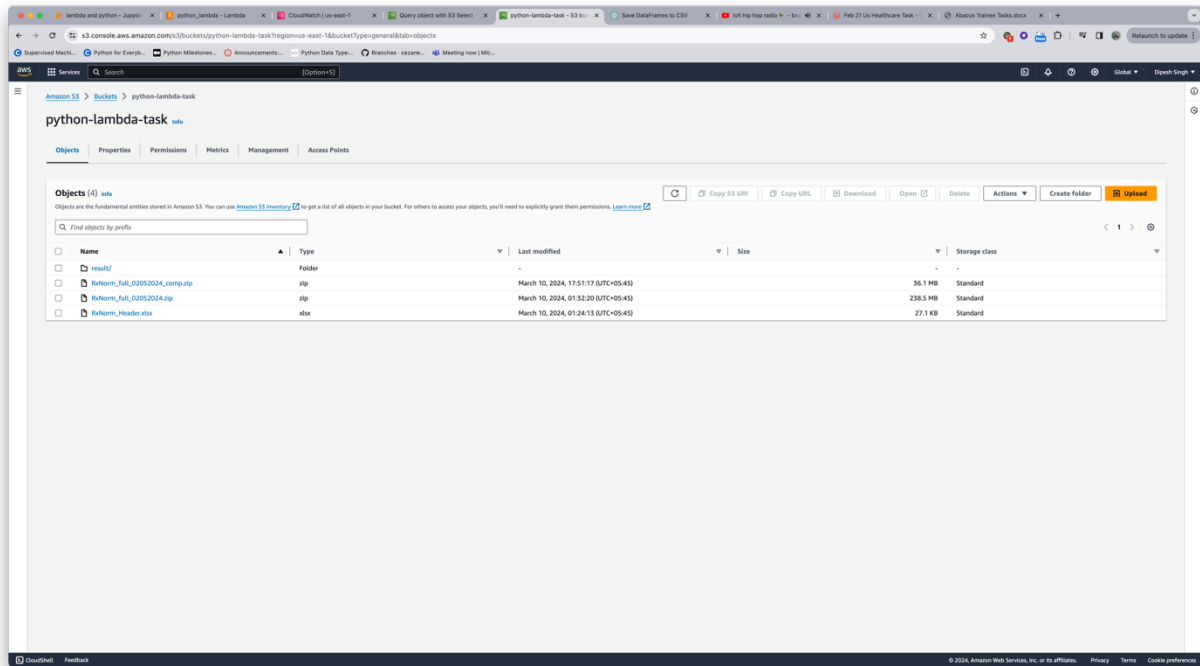
Lambda Function Overview:



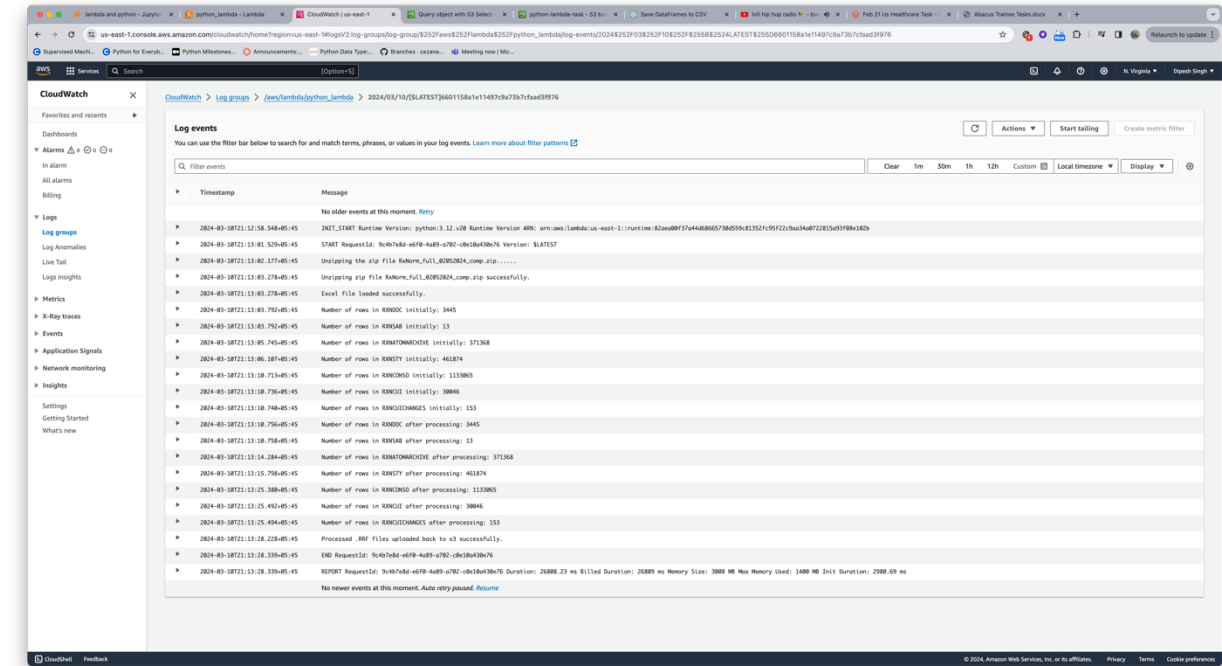
To run pandas, a layer was added.

Layers Info						Edit	Add a layer
Merge order	Name	Layer version	Compatible runtimes	Compatible architectures	Version ARN		
1	AWSSDKPandas-Python312	4	python3.12	x86_64	arn:aws:lambda:us-east-1:336392948345:layer:AWSSDKPandas-Python312:4		

S3 bucket after the lambda is triggered.



CloudWatch logs record:



RXNATOMARCHIVE.txt file after the lambda is triggered:

Query results

Query results are not available after you choose Clear or navigate away. Choose Download results to download a copy of the following query results.

Status

Successfully returned 571369 records in 13673 ms

Bytes returned: 81258249 B

Raw

Formatted

1

KXJIT,INIT,STR_ARCHIVE,TIMESTAMP,CREATED,TIMESTAMP,UPDATED,TIMESTAMP,CODE,IS_BRAND,LAT,LAST_RELEASED,SAUI,Y5AR,KXJIT,SAB,TTY,MERGED,LO,KXJIT,Code set,Version Month

2

947_A18135796_merme,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:16 PM,41,,ENG,06-APR-20,,KXNDK,1348,,200406F,,41,KXNDK,IN,44,Kokoru,,2024-02-05

3

1424_A18134378_beta-Alanine,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:16 PM,61,,ENG,06-APR-20,,KXNDK,1348,,200406F,,61,KXNDK,IN,61,Kokoru,,2024-02-05

4

1684_A18134329_Ambrosenolol,Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:14 PM,74,,ENG,06-APR-20,,KXNDK,1348,,200406F,,74,KXNDK,IN,74,Kokoru,,2024-02-05

5

2155_A18137618_Licospermanetic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:18 PM,96,,ENG,06-APR-20,,KXNDK,1348,,200406F,,96,KXNDK,IN,96,Kokoru,,2024-02-05

6

2201_A18134351_5-Hydroxytryptophan,2020-04-27,03/18/2005,02:03:47 PM,11/06/2020 06:11:15 AM,94,,ENG,06-APR-20,,KXNDK,1348,,200406F,,94,KXNDK,IN,94,Kokoru,,2024-02-05

7

2311_A18137087_Ticlopidine Hydrochloride,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:19 PM,97,,ENG,06-APR-20,,KXNDK,1348,,200406F,,97,KXNDK,IN,97,Kokoru,,2024-02-05

8

2321_A18134333_6-Aminocaproic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:09 PM,99,,ENG,06-APR-20,,KXNDK,1348,,200406F,,99,KXNDK,IN,99,Kokoru,,2024-02-05

9

2403_A18134324_6-Mercaptopurine,2020-04-27,03/18/2005,02:03:47 PM,03/22/2020 02:10:12 AM,103,,ENG,04-OCT-10,,KXNDK,1348,,200406F,,103,KXNDK,IN,103,Kokoru,,2024-02-05

10

2603_A18134005_Doxycycline,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:09 PM,110,,ENG,06-APR-20,,KXNDK,1348,,200406F,,110,KXNDK,IN,110,Kokoru,,2024-02-05

11

4130_A18134320_Acetanilidol,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:14 PM,145,,ENG,06-APR-20,,KXNDK,1348,,200406F,,145,KXNDK,IN,145,Kokoru,,2024-02-05

12

4414_A18134340_Koncomenolol,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:16 PM,154,,ENG,06-APR-20,,KXNDK,1348,,200406F,,154,KXNDK,IN,154,Kokoru,,2024-02-05

13

4450_A18134342_Acetonitrile,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:15 PM,155,,ENG,06-APR-20,,KXNDK,1348,,200406F,,155,KXNDK,IN,155,Kokoru,,2024-02-05

14

4505_A18134344_Acetanilide,2020-04-27,03/18/2005,02:03:47 PM,12/15/2000 11:11:45 AM,162,,ENG,,KXNDK,96AC,,001812F,162,KXNDK,IN,162,Kokoru,,2024-02-05

15

4714_A18134357_Acetic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:09 PM,168,,ENG,06-APR-20,,KXNDK,1348,,200406F,,168,KXNDK,IN,168,Kokoru,,2024-02-05

16

4855_A18134346_Acetanilide,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:15 PM,173,,ENG,06-APR-20,,KXNDK,1348,,200406F,,173,KXNDK,IN,173,Kokoru,,2024-02-05

17

4998_A18134347_Acetone,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:13 PM,178,,ENG,06-APR-20,,KXNDK,1348,,200406F,,178,KXNDK,IN,178,Kokoru,,2024-02-05

18

5411_A18134348_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:11 PM,191,,ENG,06-APR-20,,KXNDK,1348,,200406F,,191,KXNDK,IN,191,Kokoru,,2024-02-05

19

5413_A18134349_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:11 PM,194,,ENG,06-APR-20,,KXNDK,1348,,200406F,,194,KXNDK,IN,194,Kokoru,,2024-02-05

20

5475_A18134350_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:13 PM,197,,ENG,06-APR-20,,KXNDK,1348,,200406F,,197,KXNDK,IN,197,Kokoru,,2024-02-05

21

5588_A18134352_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:13 PM,199,,ENG,06-APR-20,,KXNDK,1348,,200406F,,199,KXNDK,IN,199,Kokoru,,2024-02-05

22

5688_A18134353_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:09 PM,200,,ENG,06-APR-20,,KXNDK,1348,,200406F,,200,KXNDK,IN,200,Kokoru,,2024-02-05

23

6413_A18134356_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:14 PM,230,,ENG,06-APR-20,,KXNDK,1348,,200406F,,230,KXNDK,IN,230,Kokoru,,2024-02-05

24

6506_A18134357_Acetylsalicylic Acid,2020-04-27,03/18/2005,02:03:47 PM,04/27/2020 09:04:16 PM,239,,ENG,06-APR-20,,KXNDK,1348,,200406F,,239,KXNDK,IN,239,Kokoru,,2024-02-05

Two columns has been added as well as title has been added.