

## Creating two S3 buckets:- 1) source ,2) destination

The screenshot shows the 'Create bucket' configuration page in the AWS S3 console. The 'General configuration' section is visible, including fields for 'Bucket name' (set to 'rxnorm-source-buck') and 'Bucket type' (set to 'General purpose'). A note at the bottom of this section states: 'Bucket settings from existing bucket - optional Only the bucket settings in the following configuration are copied.' Below this, there is a 'Choose bucket' button and a note about the format: 'Format: s3://bucket/prefix'. The URL in the browser bar is <https://docs.aws.amazon.com/console/s3/bucket-naming>.

The screenshot shows the 'Block all public access' configuration page in the AWS S3 console. It lists several options under 'Block all public access': 'Block public access to buckets and objects granted through new access control lists (ACLS)', 'Block public access to buckets and objects granted through any access control lists (ACLS)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. A warning message in a yellow box states: 'Turning off block all public access might result in this bucket and the objects within becoming public. AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.' A checkbox labeled 'I acknowledge that the current settings might result in this bucket and the objects within becoming public.' is checked. The URL in the browser bar is <https://docs.aws.amazon.com/console/s3/bucket-naming>.

The screenshot shows the AWS S3 Buckets page. At the top, a green banner indicates "Successfully created bucket 'rxnorm-source-buck'". Below this, an "Account snapshot" summary provides details: Total storage 563.1 MB, Object count 17, and Average object size 33.1 MB. A note states, "You can enable advanced metrics in the 'default-account-dashboard' configuration." The main section lists "General purpose buckets (2)" and "Directory buckets". The "General purpose buckets" table includes columns for Name, AWS Region, Access, and Creation date. It shows two buckets: "rxnorm-source-buck" (US East (N. Virginia) us-east-1, Objects can be public, March 8, 2024) and "rxnom-destin-buck" (US East (N. Virginia) us-east-1, Objects can be public, March 6, 2024). Action buttons for each row include Copy ARN, Empty, Delete, and Create bucket.

## Creating folders in source bucket:-

The screenshot shows the AWS S3 Bucket Objects page for "rxnorm-source-buck". A green banner at the top says "Successfully created folder 'zip\_file'". The left sidebar includes links for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings for this account, Storage Lens, Feature spotlight, and AWS Marketplace for S3. The main content area shows the "Objects" table with two entries: "header\_file/" and "zip\_file/". Both are listed as Folders. The table has columns for Name, Type, Last modified, Size, and Storage class. Action buttons for the objects include Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload.

## Creating lambda function:-

The screenshot shows the 'Create function' wizard in the AWS Lambda console. The top navigation bar includes 'AWS', 'Services', 'Search', and account information ('N. Virginia' and 'HelloWorldFunction'). The main title is 'Create function' with a 'Info' link. Below it, a note says 'Choose one of the following options to create your function.' with three radio button choices:

- Author from scratch: 'Start with a simple Hello World example.'
- Use a blueprint: 'Build a Lambda application from sample code and configuration presets for common use cases.'
- Container image: 'Select a container image to display for your function.'

The 'Basic information' section contains fields for:

- Function name:** 'ReNormFunction' (highlighted in red)
- Runtime:** 'Python 3.12' (highlighted in red)
- Architecture:** 'x86\_64' (highlighted in red)

The 'Permissions' section includes:

- A collapsed section for 'Change default execution role'.
- An expanded section for 'Execution role' where 'Use an existing role' is selected, and 'LambdaRole' is chosen from a dropdown.

The 'Advanced settings' section is collapsed.

At the bottom right are 'Cancel' and 'Create function' buttons, with the latter being orange.

## Adding Trigger

The screenshot shows the AWS Lambda 'Add trigger' configuration interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, a search bar, and a keyboard shortcut '[Alt+S]'. Below the navigation is a breadcrumb trail: 'Lambda > Add trigger'. The main title 'Add trigger' is centered above the configuration area.

**Trigger configuration** Info

**S3** aws asynchronous storage

**Bucket**  
Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.  
s3/rxnorm-source-buck

Bucket region: us-east-1

**Event types**  
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

**Prefix - optional**  
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.  
zip\_file/

**Suffix - optional**  
Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.  
e.g. .jpg

**Recursive invocation**  
If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

I acknowledge that using the same S3 bucket for both input and output is not recommended.

CloudShell Feedback

## Adding pandas layer:-

The screenshot shows the AWS Lambda function configuration interface. The top navigation bar includes 'Services', a search bar, and account information ('N. Virginia' and 'vocabs/user5011557+amo.lkanch@dcitnc.com @ 4629-7248-7428'). The main content area is titled 'Code properties' and contains fields for 'Package size' (299.0 byte), 'SHA256 hash' (HAPq9EReJVEC5gLavtc/gyd5vZtd9eiUGF932t0jBxY=), and 'Last modified' (March 8, 2024 at 05:39 PM GMT+5:30). Below this is the 'Runtime settings' section, which includes 'Runtime' (Python 3.12), 'Handler' (lambda\_function.lambda\_handler), and 'Architecture' (x86\_64). A link to 'Runtime management configuration' is also present. The final section shown is 'Layers', which has a table with columns: Merge order, Name, Layer version, Compatible runtimes, Compatible architectures, and Version ARN. The table displays the message 'There is no data to display.'

aws Services Search [Alt+S] 

Lambda > Layers > Add layer

## Add layer

### Function runtime settings

Runtime Python 3.12	Architecture x86_64
------------------------	------------------------

### Choose a layer

Layer source [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers  
Choose a layer from a list of layers provided by AWS.

Custom layers  
Choose a layer from a list of layers created by your AWS account or organization.

Specify an ARN  
Specify a layer by providing the ARN.

AWS layers  
Layers provided by AWS that are compatible with your function's runtime.  
 

Version  
 

[Cancel](#) [Add](#)

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Successfully updated the function RxNormFunction.

Lambda > Functions > RxNormFunction

## RxNormFunction

Throttle Copy ARN Actions ▾

Function overview Info

Description

Last modified 28 seconds ago

Function ARN arn:aws:lambda:us-east-1:462972487428:function:RxNormFunction

Function URL Info

Diagram Template

RxNormFunction (1)

S3

+ Add destination

+ Add trigger

Code Test Monitor Configuration Aliases Versions

Code source Info Upload from ▾

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## Changing Configuration Settings:-

The screenshot shows the AWS Lambda 'Edit basic settings' configuration page. The navigation bar at the top includes the AWS logo, Services, a search bar, and a keyboard shortcut [Alt+S]. The breadcrumb trail indicates the current path: Lambda > Functions > RxNormFunction > Edit basic settings.

**Basic settings** Info

**Description - optional**  
A text input field for describing the function.

**Memory** Info  
Your function is allocated CPU proportional to the memory configured.  
Current value: 4000 MB  
Set memory to between 128 MB and 10240 MB.

**Ephemeral storage** Info  
You can configure up to 10 GB of ephemeral storage (/tmp) for your function. [View pricing](#)  
Current value: 512 MB  
Set ephemeral storage (/tmp) to between 512 MB and 10240 MB.

**SnapStart** Info  
Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the [SnapStart compatibility considerations](#).  
Current setting: None  
Supported runtimes: Java 11, Java 17, Java 21.

**Timeout**  
Current value: 5 min 0 sec

**Execution role**  
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).  
 Use an existing role  
 Create a new role from AWS policy templates  
Selected role: LabRole

**Existing role**  
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.  
Selected role: LabRole

[View the LabRole role](#) on the IAM console.

Buttons: Cancel, Save

The screenshot shows the AWS Lambda console. A green success message at the top states "Successfully updated the function RxNormFunction." The navigation bar includes tabs for Code, Test, Monitor, Configuration (which is selected), Aliases, and Versions. On the left, a sidebar lists various configuration options: Triggers, Permissions, Destinations, Function URL, Environment variables, Tags, VPC, Monitoring and operations tools, Concurrency, Asynchronous invocation, Code signing, RDS databases, and Filesystems. The main content area displays the General configuration settings, including Description, Timeout (5 min 0 sec), Memory (4000 MB), SnapStart (None), and Ephemeral storage (512 MB). An "Edit" button is located in the top right corner of this section.

## Code:-

The screenshot shows the AWS Lambda code editor for the function "RxNormFunction". The interface includes a toolbar with File, Edit, Find, View, Go, Tools, Window, Test (selected), Deploy, and an "Upload from" button. The code editor window displays the file "lambda\_function.py" with the following content:

```
1 #importing libraries for aws interaction,data manipulation, handling zip files,handling binary data
2 import boto3
3 import pandas as pd
4 import zipfile
5 import io
6 import os
7
8
9 s3 = boto3.client('s3')
10
11 def lambda_handler(event, context):
12     try:
13         # Checking records are available in the event or not
14         if 'Records' not in event:
15             return {
16                 'statusCode': 400,
17                 'body': 'Event does not contain Records key'
18             }
19
20         # Getting bucket_name and keys for triggering
21         source_bucket = event["Records"][0]["s3"]["bucket"]["name"]
22         source_key = event["Records"][0]["s3"]["object"]["key"]
23
24         # Downloading the zip file from the bucket(RxNorm-source-buck)
25         response = s3.get_object(Bucket=source_bucket, Key=source_key)
26         zip_bytes = response['Body'].read()
27
28         # Extracting the zip files if the zip file contain rrf files then
29         #it uses function process_rrf_file file further processing
```

The status bar at the bottom indicates the code is in Python and has 4 spaces per tab. The bottom navigation bar includes CloudShell, Feedback, and search fields, along with system status icons like battery level, temperature (35°C), and date/time (11-Mar-24).

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Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

lambda\_function lam\_function.py Environment Var

```
26     zip_bytes = response['Body'].read()
27
28     # Extracting the zip files if the zip file contain rrf files then
29     #it uses function process_rrf_file file further processing
30     with zipfile.ZipFile(io.BytesIO(zip_bytes)) as zip_ref:
31         for file_info in zip_ref.infolist():
32             if file_info.filename.endswith('.RRF'):
33                 process_rrf_file(zip_ref, file_info, source_bucket)
34
35     return {
36         'statusCode': 200,
37         'body': 'Success'
38     }
39 except Exception as e:
40     return {
41         'statusCode': 500,
42         'body': f'Error: {e}'
43     }
44
45 def process_rrf_file(zip_ref, file_info, source_bucket):
46     try:
47         file_name = os.path.basename(file_info.filename) # it extracts base filename without whole path
48         with zip_ref.open(file_info.filename) as rrf_file: # it opens the RRF file from the ZIP archive "zip_ref" and give it to df
49
50
51
```

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Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

lambda\_function lam\_function.py Environment Var

```
51
52     as file content Pipe separator so we used sep as "[" ,None" for the header (as there's no header in the RRF files),
53     #and sets low_memory to False so that pandas doesn't attempt to infer the data types, as RRF files can be large.
54     df = pd.read_csv(rrf_file, sep='|', header=None, low_memory=False)
55     original_row_count = df.shape[0]
56
57     #it retrieves header information from an Excel file stored in an S3 bucket folder name header_file
58     sheet_name = os.path.splitext(file_name)[0]
59     header_file_key = 'header_file/RxNorm_Header.xlsx'
60     header_df = read_excel_from_s3(source_bucket, header_file_key, sheet_name)
61
62     if header_df is not None:
63         df1 = df.shape[1]
64         headers = header_df.iloc[:, 1].tolist()[:df1]
65         # Ensures DataFrame columns match with excel sheet headers
66         if len(headers) != df1:
67             df1 = max(len(headers), df1)
68             df.columns = headers[:df1]
69             df = df.reindex(columns=headers[:df1])
70         else:
71             df.columns = headers
72
73         # Adding 'version_month' column in every file if not already present
74         if 'VERSION_MONTH' not in df.columns:
75             df['VERSION_MONTH'] = '2024-02-05' # From download textfile
76
```

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Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

Environment

lambda\_function lam\_function.py Environment Var

```
71 df.columns = headers
72
73 # Adding 'version_month' column in every file if not already present
74 if 'VERSION_MONTH' not in df.columns:
75
76 df['VERSION_MONTH'] = '2024-02-05' # From download textfile
77
78 # Checking if 'CODE_SET' column already exists, if it exists then updating its values to 'RxNorm'
79 if 'CODE_SET' in df.columns:
80
81 df['CODE_SET'] = 'RxNorm'
82
83
84 # Converting date columns(SOURCE_VERSION , EFFT_DT ) of RXNSAB file in proper yyyy-mm-dd format
85 if 'SOURCE_VERSION' in df.columns:
86
87 df['SOURCE_VERSION'] = pd.to_datetime(df['SOURCE_VERSION'], format='%Y-%m-%d', errors='coerce').dt.strftime('%Y-%m-%d')
88 .fillna(pd.to_datetime(df['SOURCE_VERSION'], format='%Y', errors='coerce').dt.strftime('%Y'))
89
90 if 'EFFT_DT' in df.columns:
91
92 df['EFFT_DT'] = pd.to_datetime(df['EFFT_DT'], format='%Y-%m-%d').dt.strftime('%Y-%m-%d')
93
94 # Converting date columns(CREATE_DATE , UPDATE_DATE, RXNORM_TERM_DT ) of RXNATOMARCHIVE file in proper yyyy-mm-dd format
95 if 'CREATE_DATE' in df.columns:
96
97
98
99
100
101
102
103
104
105
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107
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113
114
115
116
```

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Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

Environment

lambda\_function lam\_function.py Environment Var

```
91 df['EFFT_DT'] = pd.to_datetime(df['EFFT_DT'], format='%Y-%m-%d').dt.strftime('%Y-%m-%d')
92
93 # Converting date columns(CREATE_DATE , UPDATE_DATE, RXNORM_TERM_DT ) of RXNATOMARCHIVE file in proper yyyy-mm-dd format
94 if 'CREATE_DATE' in df.columns:
95
96 df['CREATE_DATE'] = pd.to_datetime(df['CREATE_DATE'], format='%m/%d/%Y %I:%M:%S %p').dt.strftime('%Y-%m-%d %I:%M:%S %p')
97
98 if 'UPDATE_DATE' in df.columns:
99
100 df['UPDATE_DATE'] = pd.to_datetime(df['UPDATE_DATE'], format='%m/%d/%Y %I:%M:%S %p').dt.strftime('%Y-%m-%d %I:%M:%S %p')
101
102 if 'RXNORM_TERM_DT' in df.columns:
103
104 df['RXNORM_TERM_DT'] = pd.to_datetime(df['RXNORM_TERM_DT'], format='%d-%b-%Y').dt.strftime('%Y-%m-%d')
105
106
107
108 csv_data = df.to_csv(index=None) # converting dataframe to csv format
109
110 # Finally uploading the CSV data to another destination S3 bucket (rxnom-destin-buck)
111 destination_bucket = 'rxnom-destin-buck'
112 destination_key = f'{os.path.splitext(file_name)[0]}.csv'
113 s3.put_object(Bucket=destination_bucket, Key=destination_key, Body=csv_data)
114
115 converted_row_count = df.shape[0] #After updating df counting
116
```

The screenshot shows the AWS Lambda function editor interface. The top navigation bar includes 'Services', 'Search', 'Code' (selected), 'Test', 'Monitor', 'Configuration', 'Aliases', and 'Versions'. The right side of the header shows 'N. Virginia' and a user email. The main area is titled 'Code source' with tabs for 'Info' and 'Code'. A toolbar at the top of the code editor has 'File', 'Edit', 'Find', 'View', 'Go', 'Tools', 'Window', 'Test' (selected), and 'Deploy'. On the left, there's a sidebar for 'Environment' with 'RxNormFunction' selected, showing 'lam\_function.py' and 'lamda\_function.py'. The code editor displays the following Python script:

```

116     print("file_name = ", file_name)
117     print("original_row_count = ", original_row_count)
118     print("converted_row_count = ", converted_row_count)
119
120     except Exception as e:
121         print(f"Error processing RRF file '{file_name}': {e}")
122         raise
123
124
125
126     #The read_excel_from_s3 function is a utility function used to read an Excel file stored in an S3 bucket.
127     #It download the Excel file, reads it into memory, and returns a pandas DataFrame containing the data.
128     def read_excel_from_s3(bucket, key, sheet_name):
129         try:
130             response = s3.get_object(Bucket=bucket, Key=key)
131             excel_bytes = response['Body'].read()
132             df = pd.read_excel(io.BytesIO(excel_bytes), sheet_name=sheet_name, header=None)
133             return df
134         except Exception as e:
135             print(f"Error reading Excel file: {e}")
136             return None

```

## Adding header file in header\_folder:-

The screenshot shows the AWS CloudWatch Files console. At the top, a green banner indicates 'Upload succeeded' with a link to 'View details below.' Below this, a summary table shows the upload status:

Destination	Succeeded	Failed
s3://rxnorm-source-buck/header_file/	<span style="color: green;">1 file, 24.7 KB (100.00%)</span>	<span style="color: grey;">0 files, 0 B (0%)</span>

The 'Files and folders' tab is selected, showing a table of uploaded files:

Name	Folder	Type	Size	Status	Error
RxNorm_He...	-	application/...	24.7 KB	<span style="color: green;">Succeeded</span>	-

At the bottom, there are links for 'CloudShell', 'Feedback', and copyright information: '© 2024, Amazon Web Services, Inc. or its affiliates.' and 'Privacy Terms Cookie preferences'.

## Adding zip file in zip\_folder:-

The screenshot shows the AWS S3 console interface. On the left, the navigation pane includes links for Buckets, Storage Lens, and AWS Marketplace. The main content area displays a bucket named 'rxnorm-source-buck' containing a folder 'zip\_file/'. Inside 'zip\_file/' is a single object named 'RxNorm.zip' which is a zip file. The table lists the object with its name, type (zip), last modified date (March 8, 2024, 18:06:25 UTC+05:30), size (152.9 MB), and storage class (Standard). Action buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload are available at the top of the object list.

## CloudWatchLog Result Validating row count:-

The screenshot shows the AWS CloudWatch Log Groups interface. It displays log events for the '/aws/lambda/RxNormFunction' function on March 11, 2024. The log events are timestamped and show the processing of an RxNorm file. Key messages include 'INIT\_START Runtime Version: python:3.12.v20 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:82aea00f37a44d68665730d559c81352fc95f22c9...', 'START RequestId: c7f3d88a-2489-4771-952a-2ae7f877a66e Version: \$LATEST', and various file processing steps like 'file\_name = RXNATOMARCHIVE.RRF', 'original\_row\_count = 371368', and 'converted\_row\_count = 371368'. A filter bar at the top allows searching for specific log patterns.

2024-03-11T16:04:08.578+05:30		file_name = RXNOMS2.RRF
▶	2024-03-11T16:04:08.578+05:30	original_row_count = 30046
▶	2024-03-11T16:04:08.578+05:30	converted_row_count = 30046
▶	2024-03-11T16:04:08.669+05:30	file_name = RXNCUICHANGES.RRF
▶	2024-03-11T16:04:08.669+05:30	original_row_count = 153
▶	2024-03-11T16:04:08.669+05:30	converted_row_count = 153
▶	2024-03-11T16:04:08.886+05:30	file_name = RXNDOC.RRF
▶	2024-03-11T16:04:08.886+05:30	original_row_count = 3445
▶	2024-03-11T16:04:08.886+05:30	converted_row_count = 3445
▶	2024-03-11T16:05:31.587+05:30	file_name = RXNREL.RRF
▶	2024-03-11T16:05:31.587+05:30	original_row_count = 7154306
▶	2024-03-11T16:05:31.587+05:30	converted_row_count = 7154386
▶	2024-03-11T16:05:31.914+05:30	file_name = RXNSAB.RRF
▶	2024-03-11T16:05:31.914+05:30	original_row_count = 13
▶	2024-03-11T16:05:31.914+05:30	converted_row_count = 13
▶	2024-03-11T16:06:40.357+05:30	file_name = RXNSAT.RRF
▶	2024-03-11T16:06:40.357+05:30	original_row_count = 7222404
▶	2024-03-11T16:06:40.357+05:30	converted_row_count = 7222404
▶	2024-03-11T16:06:42.904+05:30	file_name = RXNSTY.RRF
▶	2024-03-11T16:06:42.904+05:30	original_row_count = 461874
▶	2024-03-11T16:06:42.904+05:30	converted_row_count = 461874

[Back to top](#) ^

## Destination Bucket with converted csv files:-

rxnom-destin-buck						
rxnom-destin-buck <a href="#">Info</a>						
<a href="#">Objects</a> <a href="#">Properties</a> <a href="#">Permissions</a> <a href="#">Metrics</a> <a href="#">Management</a> <a href="#">Access Points</a>						
<b>Objects (9) Info</b>						
<a href="#">Copy S3 URI</a> <a href="#">Copy URL</a> <a href="#">Download</a> <a href="#">Open</a> <a href="#">Delete</a> <a href="#">Actions</a> <a href="#">Create folder</a> <a href="#">Upload</a>						
Objects are the fundamental entities stored in Amazon S3. You can use <a href="#">Amazon S3 inventory</a> to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. <a href="#">Learn more</a>						
<input type="text"/> Find objects by prefix						
Name	Type	Last modified	Size	Storage class		
<a href="#">RXNATOMARCHIVE.csv</a>	csv	March 11, 2024, 16:03:51 (UTC+05:30)	77.8 MB	Standard		
<a href="#">RXNCONSO.csv</a>	csv	March 11, 2024, 16:04:07 (UTC+05:30)	138.5 MB	Standard		
<a href="#">RXNCUI.csv</a>	csv	March 11, 2024, 16:04:09 (UTC+05:30)	2.1 MB	Standard		
<a href="#">RXNCUICHANGES.csv</a>	csv	March 11, 2024, 16:04:09 (UTC+05:30)	17.9 KB	Standard		
<a href="#">RXNDOC.csv</a>	csv	March 11, 2024, 16:04:09 (UTC+05:30)	271.8 KB	Standard		
<a href="#">RXNREL.csv</a>	csv	March 11, 2024, 16:05:26 (UTC+05:30)	645.2 MB	Standard		
<a href="#">RXNSAB.csv</a>	csv	March 11, 2024, 16:05:32 (UTC+05:30)	10.5 KB	Standard		
<a href="#">RXNSAT.csv</a>	csv	March 11, 2024, 16:06:34 (UTC+05:30)	622.4 MB	Standard		
<a href="#">RXNSTY.csv</a>	csv	March 11, 2024, 16:06:43 (UTC+05:30)	26.1 MB	Standard		

## Sample file :-

### RXNATOMARCHIEVE

#### Before Changes:-

RXNATOMARCHIEVE - Notepad

File Edit Format View Help

947|A10335796|Mesna|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:10 PM|44|ENG|06-APR-20||RXNORM\_19AB\_200406F|44|RXNORM|IN|44|  
1424|A10334578|beta-Alanine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|61|ENG|06-APR-20||RXNORM\_19AB\_200406F|61|RXNORM|IN|61|  
1684|A10334529|4-Aminobenzoic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|74|ENG|06-APR-20||RXNORM\_19AB\_200406F|74|RXNORM|IN|74|  
2192|A16791816|Eicosapentaenoic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:18 PM|90|ENG|06-APR-20||RXNORM\_19AB\_200406F|90|RXNORM|PIN|90|  
2265|A10334531|5-Hydroxytryptophan|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:11 AM|94|ENG|06-APR-20||RXNORM\_19AB\_200406F|94|RXNORM|IN|94|  
2311|A16793037|Ticlopidine Hydrochloride|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:19 PM|97|ENG|06-APR-20||RXNORM\_19AB\_200406F|97|RXNORM|PIN|97|  
2332|A10334533|6-Aminocaproic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|99|ENG|06-APR-20||RXNORM\_19AB\_200406F|99|RXNORM|IN|99|  
2453|A10334534|6-Mercaptopurine|2010-10-21|03/10/2005 02:03:47 PM|10/21/2010 02:10:12 AM|103|ENG|04-OCT-10||RXNORM\_19AB\_200406F|103|RXNORM|IN|103|  
2663|A10336065|Oxyquinoline|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|118|ENG|06-APR-20||RXNORM\_19AB\_200406F|118|RXNORM|IN|118|  
4330|A10334539|Acetabutolol|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|149|ENG|06-APR-20||RXNORM\_19AB\_200406F|149|RXNORM|IN|149|  
4414|A10334540|Acenocoumarol|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|154|ENG|06-APR-20||RXNORM\_19AB\_200406F|154|RXNORM|IN|154|  
4458|A10334542|Acepromazine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:11 PM|155|ENG|06-APR-20||RXNORM\_19AB\_200406F|155|RXNORM|IN|155|  
4565|A10334544|Acetanilide|2006-11-15|03/10/2005 02:03:47 PM|11/15/2006 11:11:45 AM|162|ENG||RXNORM\_06AC\_061012F|162|RXNORM|IN|162|  
4655|A10334545|Acetazolamide|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:15 PM|167|ENG|06-APR-20||RXNORM\_19AB\_200406F|167|RXNORM|IN|167|  
4714|A10338597|Acetyl Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|168|ENG|06-APR-20||RXNORM\_19AB\_200406F|168|RXNORM|IN|168|  
4855|A10334546|Acetohexamide|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:08 PM|173|ENG|06-APR-20||RXNORM\_19AB\_200406F|173|RXNORM|IN|173|  
4998|A10334547|Acetone|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|178|ENG|06-APR-20||RXNORM\_19AB\_200406F|178|RXNORM|IN|178|  
5411|A10334548|Acetyl carnitine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:15 PM|193|ENG|06-APR-20||RXNORM\_19AB\_200406F|193|RXNORM|IN|193|  
5433|A10334549|Acetylcholine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:11 PM|194|ENG|06-APR-20||RXNORM\_19AB\_200406F|194|RXNORM|IN|194|  
5475|A10334550|Acetyl cysteine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|197|ENG|06-APR-20||RXNORM\_19AB\_200406F|197|RXNORM|IN|197|  
5588|A10334552|Acetylldigoxins|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|199|ENG|06-APR-20||RXNORM\_19AB\_200406F|199|RXNORM|IN|199|  
5608|A10334553|Acetylene|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|200|ENG|06-APR-20||RXNORM\_19AB\_200406F|200|RXNORM|IN|200|  
6433|A10334556|Acidulated Phosphate Fluoride|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|236|ENG|06-APR-20||RXNORM\_19AB\_200406F|236|RXNORM|IN|2  
6506|A10334557|Aclarubicin|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|239|ENG|06-APR-20||RXNORM\_19AB\_200406F|239|RXNORM|IN|239|  
6658|A10334558|Aconite|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|240|ENG|06-APR-20||RXNORM\_19AB\_200406F|242|RXNORM|IN|242|  
7012|A10334559|Acriflavine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|249|ENG|06-APR-20||RXNORM\_19AB\_200406F|249|RXNORM|IN|249|  
7746|A10336460|Spectinomycin|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|270|ENG|06-APR-20||RXNORM\_19AB\_200406F|270|RXNORM|IN|270|  
7824|A10334562|Activated Charcoal|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:10 PM|272|ENG|06-APR-20||RXNORM\_19AB\_200406F|272|RXNORM|IN|272|  
8011|A10334564|Acyclovir|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:08 PM|281|ENG|06-APR-20||RXNORM\_19AB\_200406F|281|RXNORM|IN|281|  
8416|A10334566|Adenine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|290|ENG|06-APR-20||RXNORM\_19AB\_200406F|290|RXNORM|IN|290|  
8490|A10334567|Adenine Nucleotides|2006-10-11|03/10/2005 02:03:47 PM|10/11/2006 10:10:05 AM|292|ENG||RXNORM\_06AC\_060901F|292|RXNORM|IN|292|  
8755|A10334568|Adenosine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|296|ENG|06-APR-20||RXNORM\_19AB\_200406F|296|RXNORM|IN|296|  
9557|A10334570|Adenosine Triphosphate|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:08 PM|318|ENG|06-APR-20||RXNORM\_19AB\_200406F|318|RXNORM|IN|318|  
11372|A10334573|Adrenaline Hydrochloride|2009-03-31|03/10/2005 02:03:47 PM|03/31/2009 04:03:41 PM|362|ENG|02-MAR-09||RXNORM\_08AB\_090302F|362|RXNORM|IN|362|

#### After Changes:-

RXNATOMARCHIEVE - Notepad

File Edit Format View Help

ATOM\_ID,META\_ATOM\_ID,STRING,ARCHIVE\_DATE,CREATE\_DATE,UPDATE\_DATE,CODE,BRAND\_FLAG,LANGUAGE,RXNORM\_TERM\_DT,SOURCE\_ATOM\_ID,VERSION\_SOURCE\_ABB,CONCEPT\_ID,CONCEPT ^  
947|A10335796|Mesna|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:10 PM|44|ENG|06-APR-20||RXNORM\_19AB\_200406F|44|RXNORM|IN|44|  
1424|A10334578|beta-Alanine|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:16 PM|61|ENG|06-APR-20||RXNORM\_19AB\_200406F|61|RXNORM|IN|61|  
1684|A10334529|4-Aminobenzoic Acid|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:14 PM|74|ENG|06-APR-20||RXNORM\_19AB\_200406F|74|RXNORM|IN|74|  
2192|A16791816|Eicosapentaenoic Acid|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:18 PM|90|ENG|06-APR-20||RXNORM\_19AB\_200406F|90|RXNORM|PIN|90|  
2265|A10334531|5-Hydroxytryptophan|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:15 AM|94|ENG|06-APR-20||RXNORM\_19AB\_200406F|94|RXNORM|IN|94|  
2311|A16793037|Ticlopidine Hydrochloride|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:19 PM|97|ENG|06-APR-20||RXNORM\_19AB\_200406F|97|RXNORM|PIN|97|  
2332|A10334533|6-Aminocaproic Acid|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:09 PM|99|ENG|06-APR-20||RXNORM\_19AB\_200406F|99|RXNORM|IN|99|  
2453|A10334534|6-Mercaptopurine|2010-10-21|2005-03-10 02:03:47 PM|2010-10-21 02:10:12 AM|103|ENG|04-OCT-10||RXNORM\_19AB\_200406F|103|RXNORM|IN|103|  
2663|A10336065|Oxyquinoline|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:09 PM|110|ENG|06-APR-06||RXNORM\_19AB\_200406F|110|RXNORM|IN|110|  
4330|A10334539|Acetabutolol|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:14 PM|149|ENG|06-APR-20||RXNORM\_19AB\_200406F|149|RXNORM|IN|149|  
4414|A10334540|Acenocoumarol|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:16 PM|154|ENG|06-APR-20||RXNORM\_19AB\_200406F|154|RXNORM|IN|154|  
4458|A10334542|Acepromazine|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:11 PM|155|ENG|06-APR-06||RXNORM\_19AB\_200406F|155|RXNORM|IN|155|  
4565|A10334544|Acetanilide|2006-11-15|2005-03-10 02:03:47 PM|2006-11-15 11:11:45 AM|162|ENG||RXNORM\_06AC\_061012F|162|RXNORM|IN|162|  
4655|A10334545|Acetazolamide|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:13 PM|199|ENG|06-APR-06||RXNORM\_19AB\_200406F|199|RXNORM|IN|199|  
4714|A10334562|Activated Charcoal|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:10 PM|272|ENG|06-APR-20||RXNORM\_19AB\_200406F|272|RXNORM|IN|272|  
8011|A10334564|Acyclovir|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:08 PM|281|ENG|06-APR-20||RXNORM\_19AB\_200406F|281|RXNORM|IN|281|  
8416|A10334566|Adenine|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:14 PM|290|ENG|06-APR-20||RXNORM\_19AB\_200406F|290|RXNORM|IN|290|  
8490|A10334567|Adenine Nucleotides|2006-10-11|2005-03-10 02:03:47 PM|2006-10-11 10:10:05 AM|292|ENG||RXNORM\_06AC\_060901F|292|RXNORM|IN|292|  
8755|A10334568|Adenosine|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:16 PM|296|ENG|06-APR-06||RXNORM\_19AB\_200406F|296|RXNORM|IN|296|  
9557|A10334570|Adenosine Triphosphate|2020-04-27|2005-03-10 02:03:47 PM|2020-04-27 09:04:08 PM|318|ENG|06-APR-06||RXNORM\_19AB\_200406F|318|RXNORM|IN|318|  
11372|A10334573|Adrenaline Hydrochloride|2009-03-31|2005-03-10 02:03:47 PM|2009-03-31 04:03:41 PM|362|ENG|02-MAR-09||RXNORM\_08AB\_090302F|362|RXNORM|IN|362|

Python-Lambda Python

File Edit View Run Help Last edit was 18 minutes ago New cell UI: OFF

Run all Share Publish

display(File\_RXNATOMARCHIVE)

(1) Spark Jobs

Table +

	ARCHIVE DATE	CREATE DATE	UPDATE DATE	CODE	BRAND FLAG	LANGUAGE	RXNORM TERM DT	SOURCE_ATOM
1	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:10 PM	44	null	ENG	2020-04-06	null
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3	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:14 PM	74	null	ENG	2020-04-06	null
4	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:18 PM	90	null	ENG	2020-04-06	null
5	2020-04-27	2005-03-10 02:03:47 PM	2020-11-06 06:11:15 AM	94	null	ENG	2020-04-06	null
6	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:19 PM	97	null	ENG	2020-04-06	null
7	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:09 PM	99	null	ENG	2020-04-06	null
8	2010-10-21	2005-03-10 02:03:47 PM	2010-10-21 02:10:12 AM	103	null	ENG	2010-10-04	null
9	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:09 PM	110	null	ENG	2020-04-06	null
10	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:14 PM	149	null	ENG	2020-04-06	null
11	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:16 PM	154	null	ENG	2020-04-06	null
12	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:11 PM	155	null	ENG	2020-04-06	null
13	2006-11-15	2005-03-10 02:03:47 PM	2006-11-15 11:11:45 AM	162	null	ENG	null	null
14	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:15 PM	167	null	ENG	2020-04-06	null
15	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:09 PM	168	null	ENG	2020-04-06	null
16	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:08 PM	173	null	ENG	2020-04-06	null
17	2020-04-27	2005-03-10 02:03:47 PM	2020-04-27 09:04:13 PM	178	null	ENG	2020-04-06	null

## RXNSAB

### Before Changes:-

RXNSAB - Notepad

File Edit Format View Help

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C5233827|C1140218|MMSL_2024_01_01|MMSL|Multum MediSource Lexicon|MMSL|2024_01_01|||2020AA||;Multum Information Services;3200 Cherry Creek South Drive, Suite C5233830|C1140182|MMX_2024_01_02|MMX|Micromedex RED BOOK|MMX|2024_01_02|||2020AA||;Micromedex;6200 South Syracuse Way, Suite 300;Englewood;CO;United States C5233828|C1140261|NDDF_2024_01_03|NDDF|FDB MedKnowledge (formerly NDDF Plus)|NDDF|2024_01_03|||2020AA||;First Databank Customer Support;701 Gateway Blvd, Su C5233835|C1140284|RXNORM_20AA_240205F|RXNORM|RxNorm Vocabulary|RXNORM|2024_02_05|||2020AA||RxNorm Customer Service;;U.S. National Library of Medicine;8600 Ro ine||||;RxNorm;;;META2020AA Full Update 2024_02_05;Bethesda, MD;National Library of Medicine;;;;;
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C3531723|C2720507|SNOMEDCT\_US\_2023\_06\_30|SNOMEDCT\_US|US Edition of SNOMED CT|SNOMEDCT|2023\_06\_30|||2020AA||National Library Of Medicine;NLM is a Charter Memb C5233837|C1140288|VANDF\_2023\_12\_29|VANDF|Veterans Health Administration National Drug File|VANDF|2023\_12\_29|||2020AA||Michael Lincoln, M.D.;U.S. Department C5233836|C1812643|MTHSPL\_2024\_01\_27|MTHSPL|Metathesaurus FDA Structured Product Labels|MTHSPL|2024\_01\_27|2006\_12\_21|||2020AA||RxNorm Customer Service;;U.S. Na YMBOL;UNAPPROVED\_DRUG\_OTHER;UNAPPROVED\_MEDICAL\_GAS|ENG|UTF-8|Y|FDA Structured Product Labels||||;Metathesaurus Forms of the FDA Structured Product Labels;; C5233833|C1876239|GS\_2024\_01\_05|GS|Gold Standard Drug Database|GS|2024\_01\_05|2007\_05\_04|||2020AA||RxNorm Customer Service;;U.S. National Library of Medicine;8 C5233831|C4722517|ATC\_2024\_01\_19|ATC|Anatomical Therapeutic Chemical Classification System|ATC|2024\_01\_19|||2020AA||;WHO Collaborating Centre for Drug Stati C5233832|C3539983|CVX\_2024\_01\_08|CVX|Vaccines Administered|CVX|2024\_01\_08|||2020AA||;CDC, National Center for Immunization and Respiratory Diseases Immuniza C5233829|C3858951|MTHCMSFRF\_2020|MTHCMSFRF|Metathesaurus CMS Formulary Reference File|MTHCMSFRF|2020|||2020AA||RxNorm Customer Service;;U.S. National Library C5233838|C4255544|DRUGBANK5.0\_2024\_01\_04|DRUGBANK|DrugBank|DRUGBANK|2024\_01\_04|||2020AA||;Omrx Personal Health Analytics Inc.;301 - 10359 104 St.;Edmonton;A C5233834|C4554231|USP\_2024\_01\_08|USP|USP Compendial Nomenclature|USP|2024\_01\_08|||2020AA||Jeffrey Shick; Director Translational Informatics;United States Pha

## After Changes

RXNSAB - Notepad

```
File Edit Format View Help
\VERSION_CONCEPT_ID,ROOT_CONCEPT_ID,VERSION_SOURCE_ABB,ROOT_SOURCE_ABB,SOURCE_NAME,SOURCE_FAMILY,SOURCE_VERSION,EFFT_DT,TERM_DT,INSERT_VERSION,TERMINATION_VER
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C3531723,C2720507,SNOMEDCT_US_2023_06_30,SNOMEDCT_US,US Edition of SNOMED CT,SNOMEDCT,2023-06-30,,,2020AA,,National Library Of Medicine;NLM is a Charter Memb
C5233837,C1140288,VANDF_2023_12_29,VANDF,Veterans Health Administration National Drug File,VANDF,2023-12-29,,,2020AA,,"Michael Lincoln, M.D.;U.S. Department
C5233836,C1812643,MTHSPL_2024_01_27,MTHSPL,Metathesaurus FDA Structured Product Labels,MTHSPL,2024-01-27,2006-12-21,,2020AA,,RxNorm Customer Service;U.S. Na
D_SYMBOL,UNAPPROVED_DRUG_OTHER,UNAPPROVED_MEDICAL_GAS",ENG,UTF-8,Y,Y,FDA Structured Product Labels,";;;Metathesaurus Forms of the FDA Structured Product Lab
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C5233831,C4722517,ATC_2024_01_19,ATC,Anatomical Therapeutic Chemical Classification System,ATC,2024-01-19,,,2020AA,;WHO Collaborating Centre for Drug Stati
C5233832,C3539983,CVX_2024_01_08,CVX,Vaccines Administered,CVX,2024-01-08,,,2020AA,;"CDC, National Center for Immunization and Respiratory Diseases Immuniz
C5233829,C3858951,MTHCMSFRF_2020,MTHCMSFRF,Metathesaurus CMS Formulary Reference File,MTHCMSFRF,2020,,,2020AA,,RxNorm Customer Service;U.S. National Library
C5233838,C4255544,DRUGBANK5_0_2024_01_04,DRUGBANK,DrugBank,DRUGBANK,2024-01-04,,,2020AA,,;Omrx Personal Health Analytics Inc.;301 - 10359 104 St.;Edmonton;A
C5233834,C4554231,USP_2024_01_08,USP,USP Compendial Nomenclature,USP,2024-01-08,,,2020AA,,Jeffrey Shick; Director Translational Informatics;United States Pha
```

The screenshot shows a Databricks notebook interface with a Python-Lambda job. The notebook has a single cell containing a table of drug sources. The table has columns: ABB, SOURCE\_NAME, SOURCE\_FAMILY, SOURCE\_VERSION, EFFT\_DT, TERM\_DT, and INSERT\_VERSION. The data is as follows:

ABB	SOURCE_NAME	SOURCE_FAMILY	SOURCE_VERSION	EFFT_DT	TERM_DT	INSERT_VERSION
1	Multum MediSource Lexicon	MMSL	2024-01-01T00:00:00.000+0000	null	null	2020AA
2	Micromedex RED BOOK	MMX	2024-01-02T00:00:00.000+0000	null	null	2020AA
3	FDB MedKnowledge (formerly NDDF Plus)	NDDF	2024-01-03T00:00:00.000+0000	null	null	2020AA
4	RxNorm Vocabulary	RXNORM	2024-02-05T00:00:00.000+0000	null	null	2020AA
5	US Edition of SNOMED CT	SNOMEDCT	2023-06-30T00:00:00.000+0000	null	null	2020AA
6	Veterans Health Administration National Drug File	VANDF	2023-12-29T00:00:00.000+0000	null	null	2020AA
7	Metathesaurus FDA Structured Product Labels	MTHSPL	2024-01-27T00:00:00.000+0000	2006-12-21	null	2020AA
8	Gold Standard Drug Database	GS	2024-01-05T00:00:00.000+0000	2007-05-04	null	2020AA
	Anatomical Therapeutic Chemical Classification System	ATC	2024-01-19T00:00:00.000+0000	null	null	2020AA

## CODE\_SET, VERSION\_MONTH

RXNDOC - Notepad

```

File Edit Format View Help
ATTRIBUTE,ABB_VALUE,DESCRIPTION_TYPE,DESCRIPTION,CODE_SET,VERSION_MONTH
ATN,AAL_TERM,expanded_form,AAL term,RxNorm,2024-02-05
ATN,ACCEPTABILITYID,expanded_form,Acceptability Id,RxNorm,2024-02-05
ATN,ACCEPTED_THERAPEUTIC_USE_FOR,expanded_form,Accepted therapeutic use for,RxNorm,2024-02-05
ATN,ACTIVE,expanded_form,Active,RxNorm,2024-02-05
ATN,ADDED_MEANING,expanded_form,Additional descriptive information,RxNorm,2024-02-05
ATN,ADDITIONAL_GUIDELINE,expanded_form,Additional explanatory text that is applicable to a concept (code/heading/subheading).,RxNorm,2024-02-05
ATN,ADDON_CODE,expanded_form,"A ""T"" in this field indicates that it is an ""Add-on"" code, i.e. it is commonly carried out in addition to the primary procedure, RxNorm,2024-02-05
ATN,AMBIGUITY_FLAG,expanded_form,Source atom ambiguity flag,RxNorm,2024-02-05
ATN,AMT,expanded_form,AOT uses MeSH term,RxNorm,2024-02-05
ATN,ANADA,expanded_form,Abbreviated New Animal Drug application number for the generic drug for MTHSPL,RxNorm,2024-02-05
ATN,ANATOMICAL_COORDINATE,expanded_form,Anatomical coordinate,RxNorm,2024-02-05
ATN,ANDA,expanded_form,Abbreviated New (Generic) Drug application number for the MTHSPL drug,RxNorm,2024-02-05
ATN,ANSWER_CODE_SYSTEM,expanded_form,Answer code system,RxNorm,2024-02-05
ATN,ANSWER_CODE,expanded_form,Answer code,RxNorm,2024-02-05
ATN,ANSWER_LIST_ID,expanded_form,Answer list ID,RxNorm,2024-02-05
ATN,ANSWER_LIST_NAME,expanded_form,Answer list name,RxNorm,2024-02-05
ATN,AN,expanded_form,MeSH Annotation - an informative MeSH note written primarily for indexers or catalogers that may also be useful in explaining the use of ATN,AQL,expanded_form,"MeSH Allowable Qualifier - list of allowable qualifier abbreviations for MeSH main headings (e.g. AA, CL, CS, DF, DU, IM, I, P ME, PK)" ATN,ASK_AT_ORDER_ENTRY,expanded_form,Ask at Order Entry (AOE) observations for a clinical observation or laboratory test,RxNorm,2024-02-05
ATN,ASSOC_OBSERVATIONS,expanded_form,Associated observations,RxNorm,2024-02-05
ATN,ATC_LEVEL,expanded_form,ATC LEVEL,RxNorm,2024-02-05
ATN,ATTRIBUTEDDESCRIPTION,expanded_form,Attribute Description,RxNorm,2024-02-05
ATN,ATTRIBUTEORDER,expanded_form,Attribute Order,RxNorm,2024-02-05
ATN,ATTRIBUTETYPE,expanded_form,Attribute Type,RxNorm,2024-02-05
ATN,AUTHORITY,expanded_form,Authority,RxNorm,2024-02-05
ATN,BIOCARTA_ID,expanded_form,"BioCarta online maps of molecular pathways, adapted for NCI use ID",RxNorm,2024-02-05
ATN,BLA,expanded_form,Therapeutic Biologic Applications number for the MTHSPL drug,RxNorm,2024-02-05
ATN,BLOCK,expanded_form,Block code,RxNorm,2024-02-05
ATN,BRAININFO_URL,expanded_form,URL of the central directory page in BrainInfo,RxNorm,2024-02-05
ATN,CASE_SIGNIFICANCE_ID,expanded_form,Case significance ID,RxNorm,2024-02-05
ATN,CAS_REGISTRY,expanded_form,CAS Registry,RxNorm,2024-02-05
ATN,CATEGORY,expanded_form,Category,RxNorm,2024-02-05
ATN,CCDS_ID,expanded_form,CCDS ID,RxNorm,2024-02-05

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1	1653118	2672916	RxNorm	2024-02-05
2	1653119	2672917	RxNorm	2024-02-05
3	1806685	2672352	RxNorm	2024-02-05
4	1806938	2673304	RxNorm	2024-02-05
5	2647628	2672353	RxNorm	2024-02-05
6	1791371	1791374	RxNorm	2024-02-05
7	1667913	2673607	RxNorm	2024-02-05
8	1737851	2672425	RxNorm	2024-02-05
9	238014	2673110	RxNorm	2024-02-05
10	1667913	2673607	RxNorm	2024-02-05
11	1737851	2673109	RxNorm	2024-02-05
12	1791371	1791374	RxNorm	2024-02-05
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