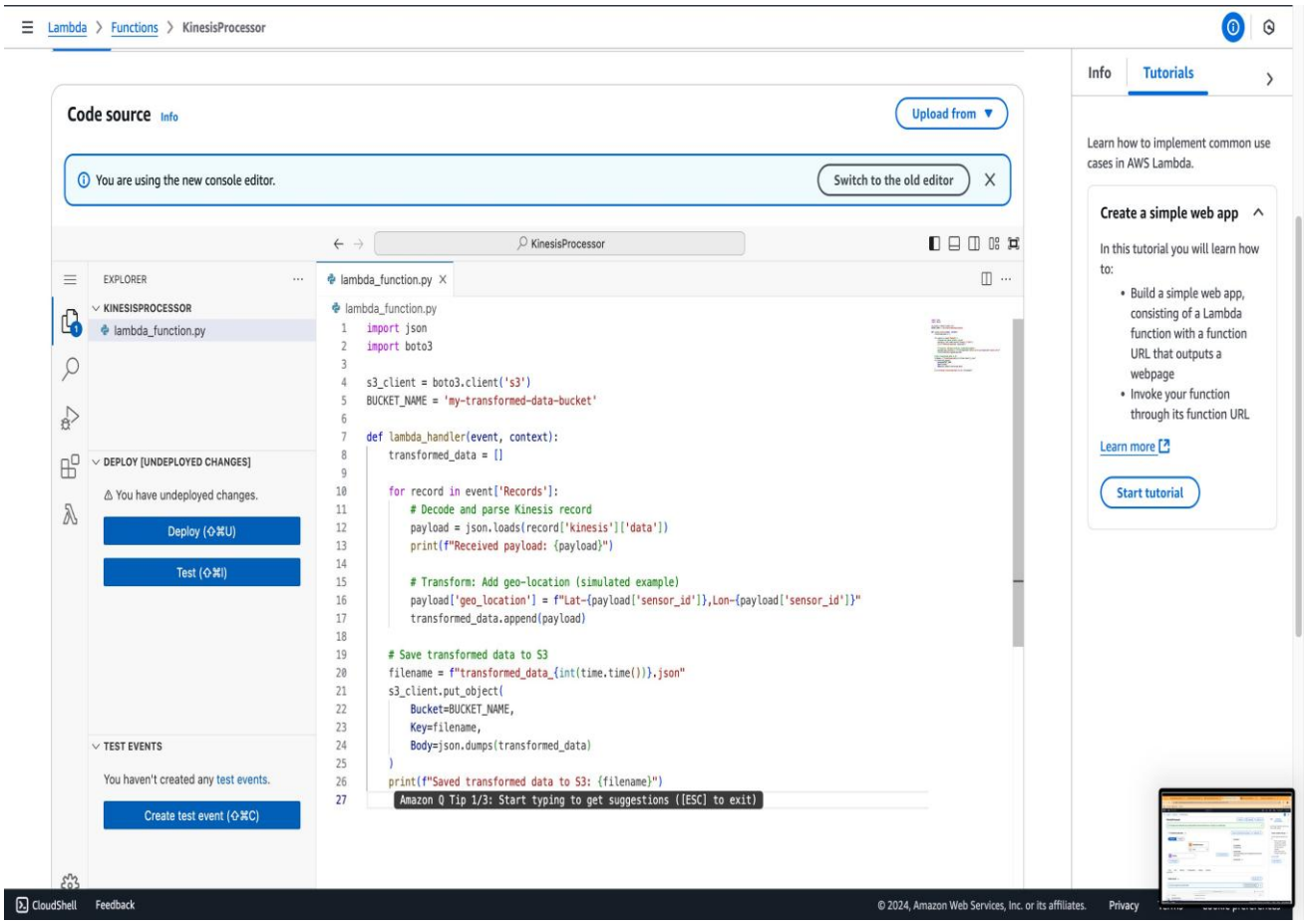
Step 1: Connect to AWS Account with Account ID:

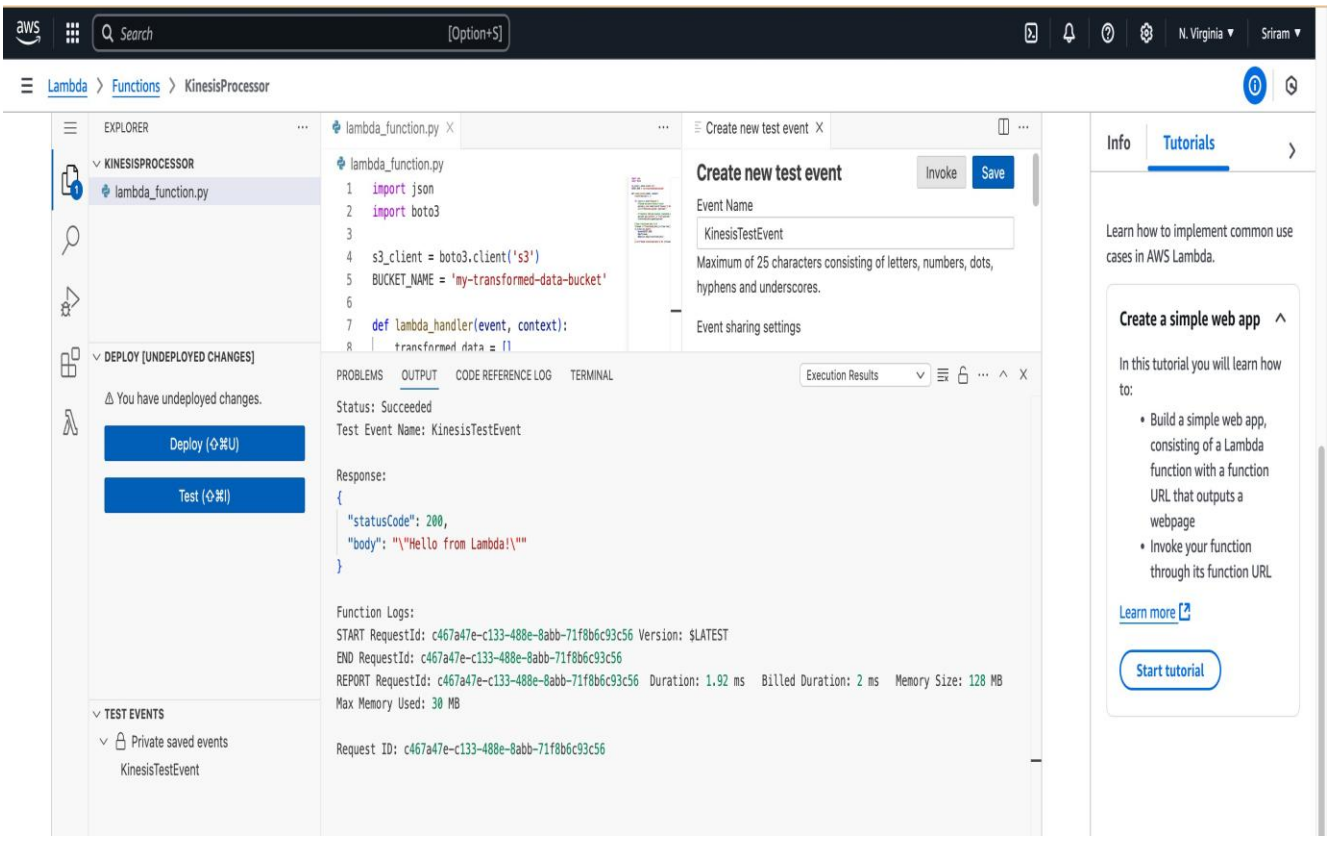
```
.9/site-packages (from botocore==1.35.76->awscli) (1.26.20)
Requirement already satisfied: pyasn1>=0.1.3 in ./micromamba/lib/python3.9/site-
packages (from rsa<4.8,>=3.1.2->awscli) (0.5.1)
Requirement already satisfied: six>=1.5 in ./micromamba/lib/python3.9/site-packa
ges (from python-dateutil<3.0.0,>=2.1->botocore==1.35.76->awscli) (1.16.0)
Downloading awscli-1.36.17-py3-none-any.whl (4.5 MB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 4.5/4.5 MB 5.5 MB/s eta 0:00:00
Downloading docutils-0.16-py2.py3-none-any.whl (548 kB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 548.2/548.2 kB 5.2 MB/s eta 0:00:00
Downloading rsa-4.7.2-py3-none-any.whl (34 kB)
Installing collected packages: rsa, docutils, awscli
  Attempting uninstall: rsa
    Found existing installation: rsa 4.9
    Uninstalling rsa-4.9:
      Successfully uninstalled rsa-4.9
Successfully installed awscli-1.36.17 docutils-0.16 rsa-4.7.2
(base) santosh@Santoshs-MacBook-Air ~ % aws --version
aws-cli/1.36.17 Python/3.9.18 Darwin/22.4.0 botocore/1.35.76
(base) santosh@Santoshs-MacBook-Air ~ % aws configure

AWS Access Key ID [None]: 034362057519
AWS Secret Access Key [None]: ********
Default region name [None]: us-east-1
Default output format [None]: json
```

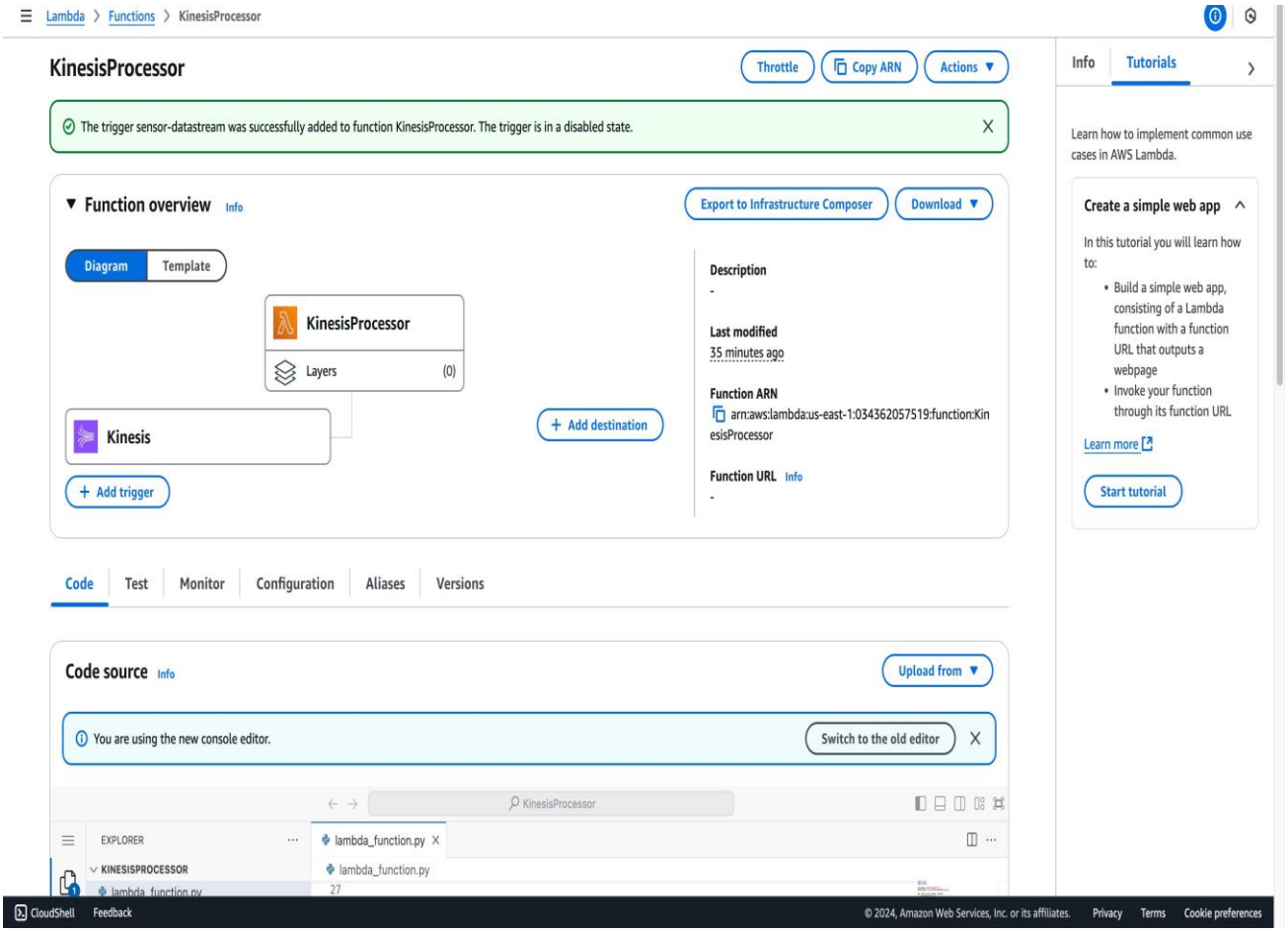
Step 2: Run the code “producer.py” and sent the real time data to AWS:

```
ased policy allows the Kinesis:PutRecord action
(base) santosh@Santoshs-MacBook-Air CL TASK1 % python producer.py
Sending data: {'sensor_id': 60, 'temperature': 20.55, 'humidity': 39.24, 'timestamp': 1733588110.66237}
Sending data: {'sensor_id': 23, 'temperature': 20.67, 'humidity': 55.26, 'timestamp': 1733588117.967923}
Sending data: {'sensor_id': 32, 'temperature': 22.52, 'humidity': 42.79, 'timestamp': 1733588119.3801322}
Sending data: {'sensor_id': 44, 'temperature': 29.59, 'humidity': 54.49, 'timestamp': 1733588120.7543418}
Sending data: {'sensor_id': 72, 'temperature': 23.87, 'humidity': 48.68, 'timestamp': 1733588122.1416478}
Sending data: {'sensor_id': 9, 'temperature': 29.99, 'humidity': 53.86, 'timestamp': 1733588123.484572}
Sending data: {'sensor_id': 95, 'temperature': 25.76, 'humidity': 47.59, 'timestamp': 1733588124.907493}
Sending data: {'sensor_id': 67, 'temperature': 27.93, 'humidity': 37.89, 'timestamp': 1733588126.346263}
Sending data: {'sensor_id': 48, 'temperature': 28.57, 'humidity': 52.79, 'timestamp': 1733588127.7768378}
Sending data: {'sensor_id': 76, 'temperature': 26.9, 'humidity': 33.56, 'timestamp': 1733588129.2105548}
Sending data: {'sensor_id': 84, 'temperature': 25.29, 'humidity': 32.66, 'timestamp': 1733588130.642389}
Sending data: {'sensor_id': 36, 'temperature': 29.3, 'humidity': 33.45, 'timestamp': 1733588132.0775309}
```

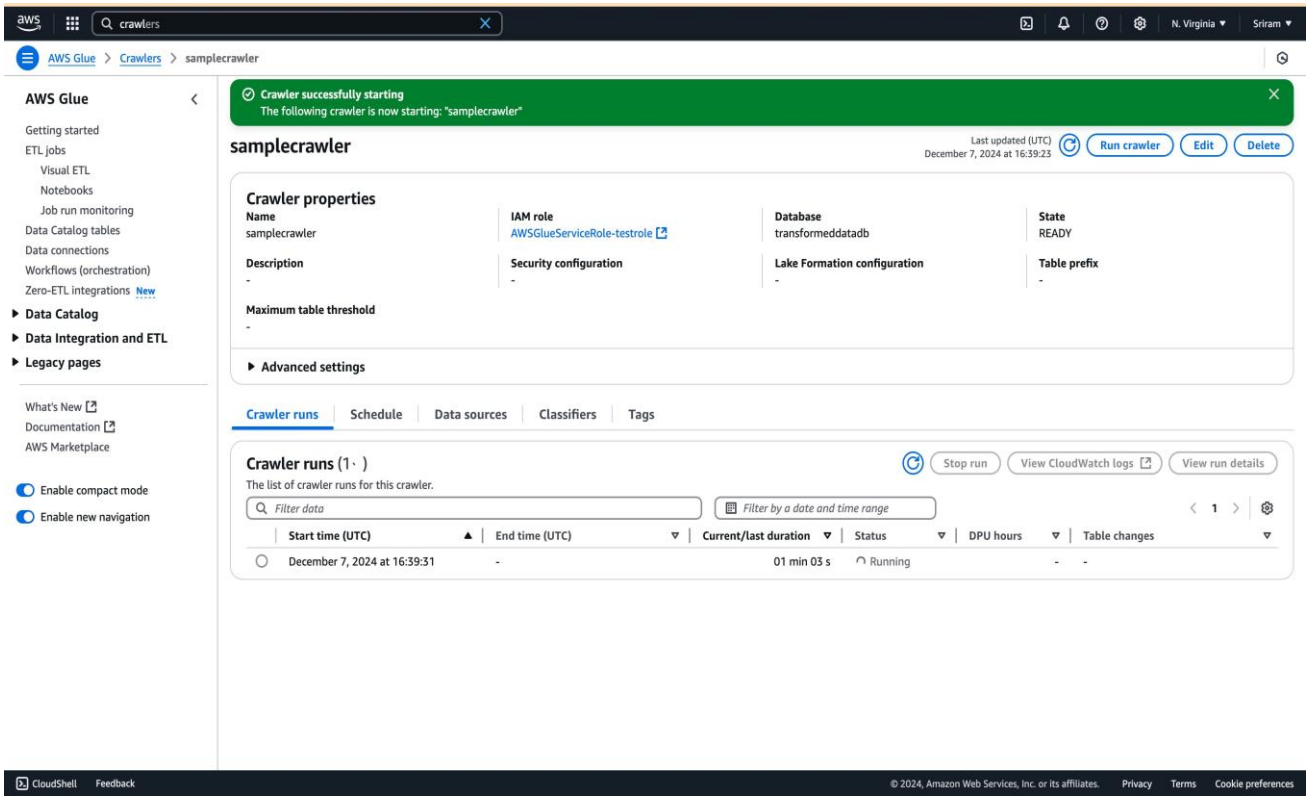
Step 3: Login to AWS and step into kenosis and create a lamb function to get the input data stream and store it in a S3 bucket



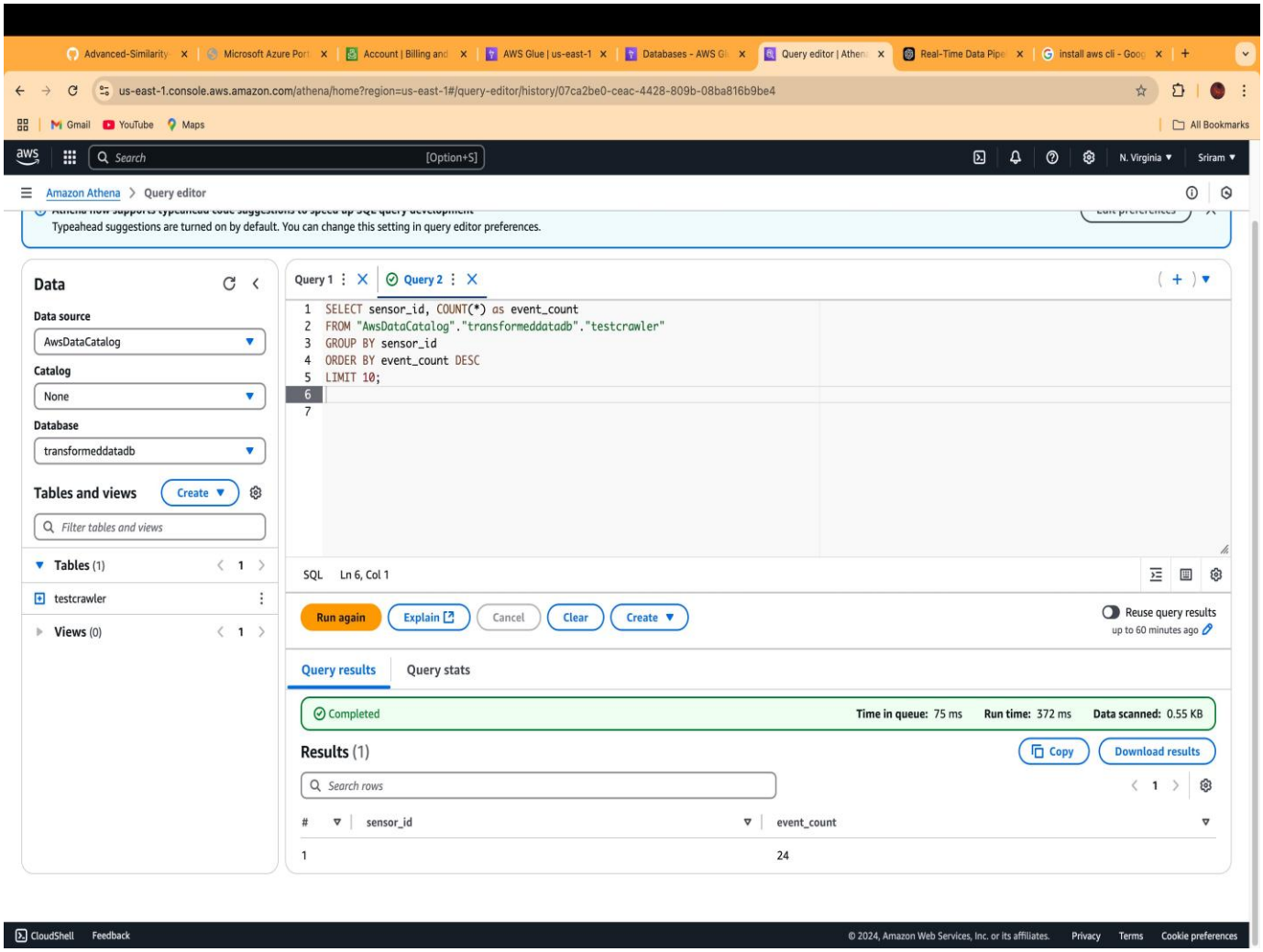




Step 4:Create a Database and table inside it to store the transformed data in S3 buckets, set an IAM and edit the manage preferences



Step 5: Now Step into to Amazon Athena and connect the Database and start querying to retrieve data (Data Analysis)



Step 6: use QuickSight for analysis the datasets from Athena and connect to the database