# CSCI 5410: Assignment 1

# Part C

# 1. List of Super Volcanoes:

Table 1. Super Volcanoes [1][2]

Name	Place/ Location	Properties	Last VEI	Last Major Eruption	Size
Long Valley Caldera	East Central California	Lat: 37.72 Long: -118.88	7.00	760,000 years ago	200-square-mile
Valles Caldera	New Mexico	Lat: 35.90 Long: -106.53	7.00	1.2 million and 1.6 million years ago	175-square-mile
Lake Toba	North Sumatra, Indonesia	Lat: 2.79 Long: 98.62	8.00	75,000 years ago	1,080-square-mile
Aira Caldera	Kagoshima, Japan	Lat: 31.59 Long: 130.66	7.00	22,000 years ago	150-square-mile
Taupo Caldera	New Zealand	Lat: -38.80 Long: 175.90	8.00	26,500 years ago	485-square-mile
Yellowstone Caldera	Yellowstone National Park	Lat: 44.41 Long: -110.72	8.00	640,000 years ago	30 by 45 miles

## 2. Screenshots of DynamoDB:

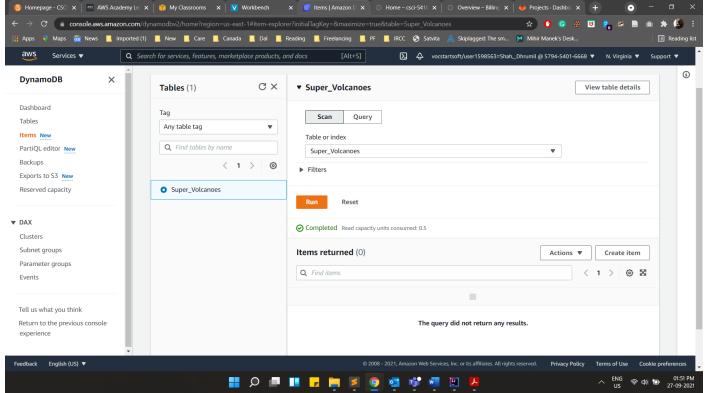


Figure 1: AWS Empty DynamoDB

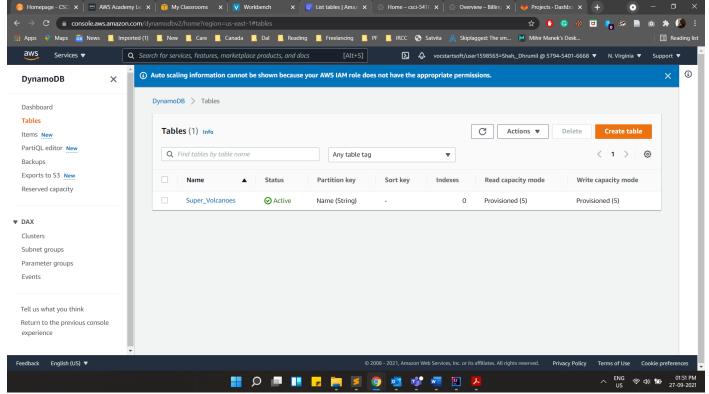


Figure 2: AWS DynamoDB Super\_Volcanoes Table

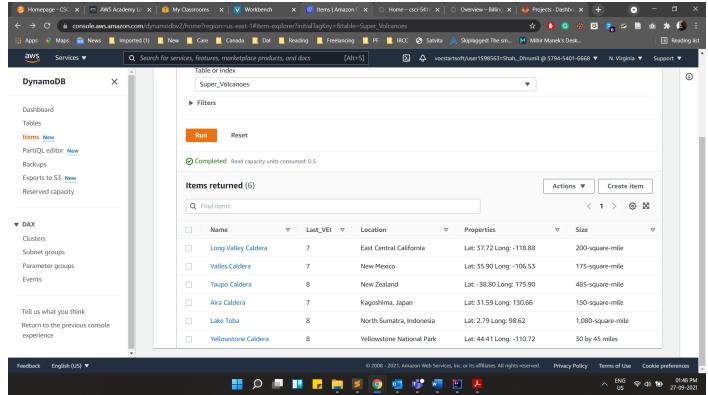


Figure 3: AWS Data Inserted DynamoDB

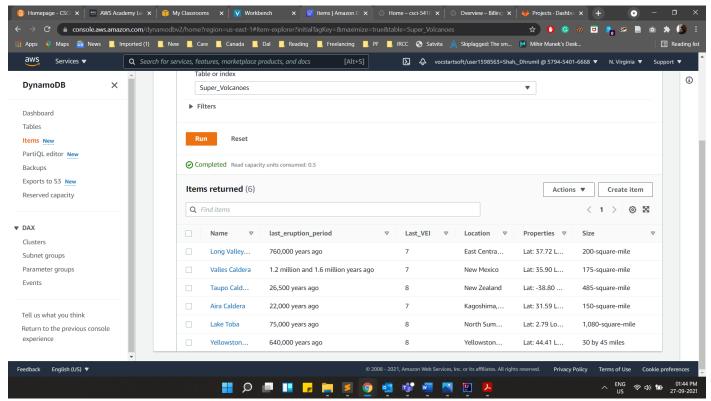


Figure 4: AWS Updated DynamoDB

### 3. Code Output of DynamoDB:

```
| Second Content | Seco
```

Figure 5: Code Output Inserted Data DynamoDB 1

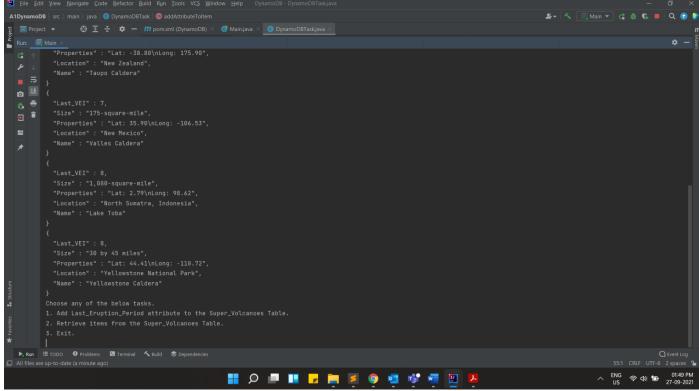


Figure 6: Code Output Inserted Data DynamoDB 2

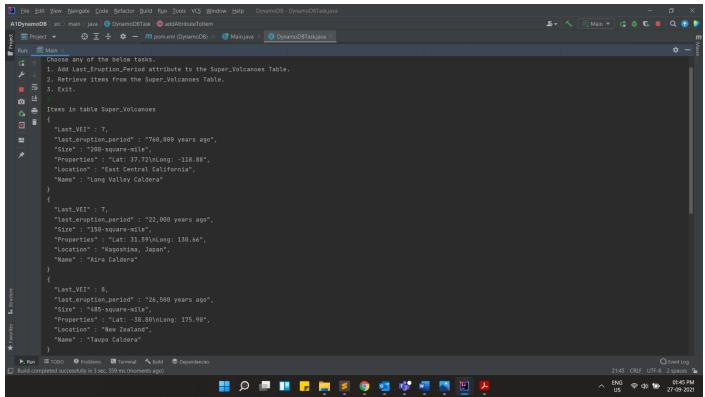


Figure 7: Code Output Updated DynamoDB 1

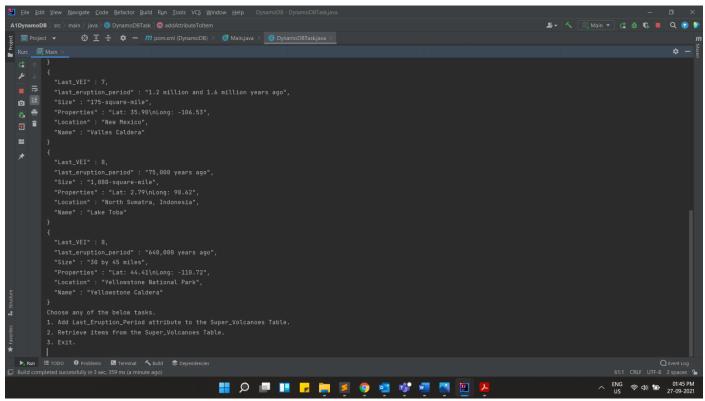


Figure 8: Code Output Updated DynamoDB 2

### 4. GitLab Repository Link:

https://git.cs.dal.ca/drshah/dhrumilrakeshshah\_csci5410.git

### 5. Program Script:

#### Main.java:

```
break;
case 3:
    // Exiting the application
    System.exit(0);
default:
    // Default switch case
    System.out.println("Enter a valid option.");
    break;
}
}
}
```

#### DynamoDBTask.java:

```
AmazonDynamoDB amazonDynamoDB =
    AmazonDynamoDBClientBuilder.standard().withCredentials
            (new AWSStaticCredentialsProvider(sessionCredentials))
```

```
DynamoDB dynamoDB = new DynamoDB(amazonDynamoDB);
System.out.println("Connection Established.\n");
```

```
if (map.get("last eruption period").toString().length() > 1) {
                  map.get("Name").toString())
Table table = dynamoDBObject.getTable(tableName);
```

```
List<Item> items = outcome.getTableItems().get(name);
    for (Item item : items) {
        System.out.println(item.toJSONPretty());
     }
    }
    catch (Exception e) {
        System.err.println(e.getMessage());
    }
}
```

### References

- [1] N. G. Society, "Supervolcanoes and Notable Volcanic," i-cubed, 2013. [Online]. Available: https://www.arcgis.com/apps/MapJournal/index.html?appid=a546b46a7fb942008455e072c69ea767.
- [2] A. Dubner, "The World's 6 Known Supervolcanoes," Ranker, 13 October 2018. [Online]. Available: https://www.ranker.com/list/the-world\_s-6-known-supervolcanoes/analise.dubner.