**Demo Instruction**

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| **Upload and Storage the Dataset to S3** | |
| Open **Amazon S3**, use the **bucket** we created in A4 Storage with CLIfold | edu.gwu.ds.cc.g35236263 |
| Create a new folder name ***Final\_VG\_Sales*** and **upload** our project dataset **vgsales.csv** |  |
| **Query in Athena via SQL** | |
| Create a **table** from S3 bucket data |  |
| Create **queries** answer following question | 1. What are the top 50 games currently making the most sales globally? 2. Are there any games in the top 50 with releases years older than 2000 that are still making high global sales? What are they? 3. What is the most popular publisher in each regional sale?  * NA * EU * JP * Other  1. Which type of game is the highest in terms of global sales? |
| Download **result csv** for each question |  |
| **Visualization in Python** | |
| Load **result csv** |  |
| Generate **inactive visualization** in python |  |
| Save as **html** file |  |
| **Host a Static Website**  Tutorial:<https://docs.aws.amazon.com/AmazonS3/latest/userguide/HostingWebsiteOnS3Setup.html> | |
| Enable static website hosting | Click the **bucket** we used in previous step, choose **Properties**, under **Static website** hosting, choose **Edit**, choose **Enable**  Enter index document: **VG\_Sales\_Python\_Visualization.html**, enter error document: **error.html**, choose **Save changes** |
| Edit Block Public Access setting | Choose **Permissions**, under **Block public access (bucket settings)**, choose **Edit**, clear **Block all public access**, and choose **Save changes** |
| Add a bucket policy that makes our bucket content publicly available | Under **Bucket Policy**, choose **Edit**, copy the following bucket policy, and paste it in the **Bucket policy editor**,  {  "Version": "2012-10-17",  "Statement": [  {  "Sid": "PublicReadGetObject",  "Effect": "Allow",  "Principal": "\*",  "Action": [  "s3:GetObject"  ],  "Resource": [  "arn:aws:s3::: edu.gwu.ds.cc.g35236263/\*"  ]  }  ]  }  Choose **Save changes** |
| Upload index document: **VG\_Sales\_Python\_Visualization.html** to bucket |  |
| Upload error document: **error.html** to bucket |  |
| Open our website endpoint | Choose **Properties**, under **Static website hosting**, choose our **Bucket website endpoint**. Our python visualization document opens in a separate browser window |