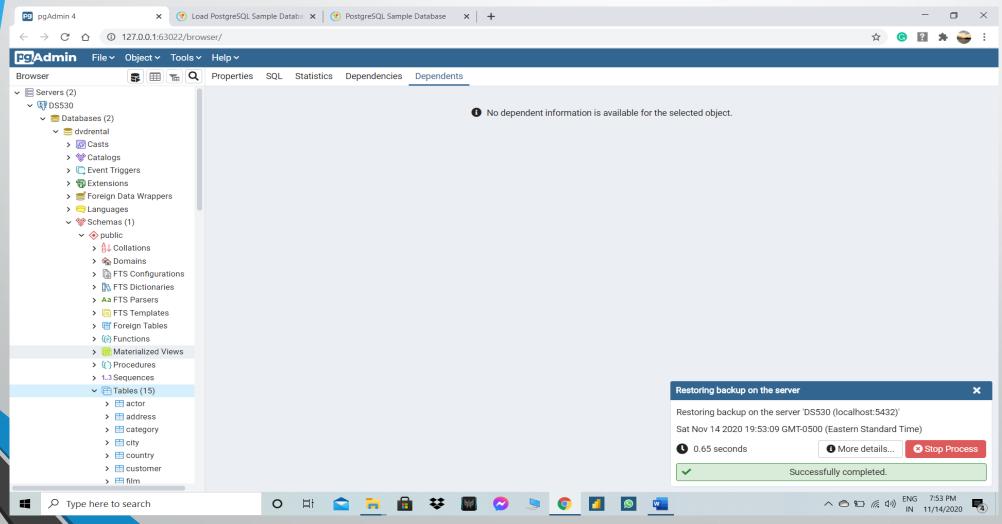
DS 530 Project

By Arpan Patel

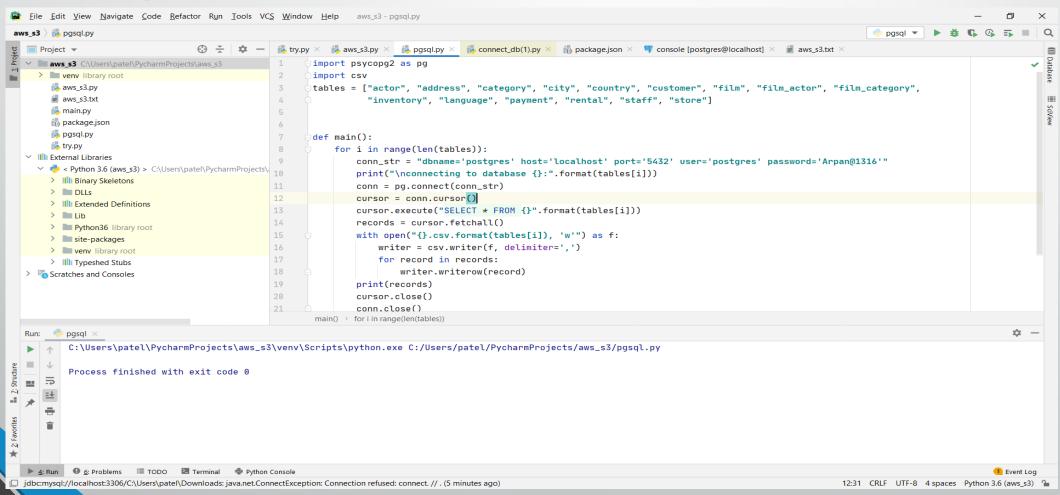
Resources

- PostgreSQL
- PgAdmin
- Pycharm
- Aws
- Aws redshift
- Aws S₃

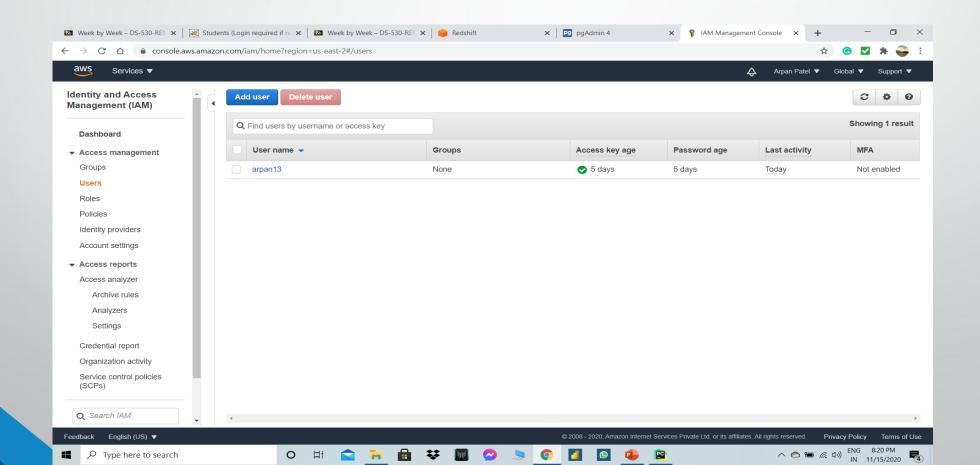
PostgreSQL pgadmin4



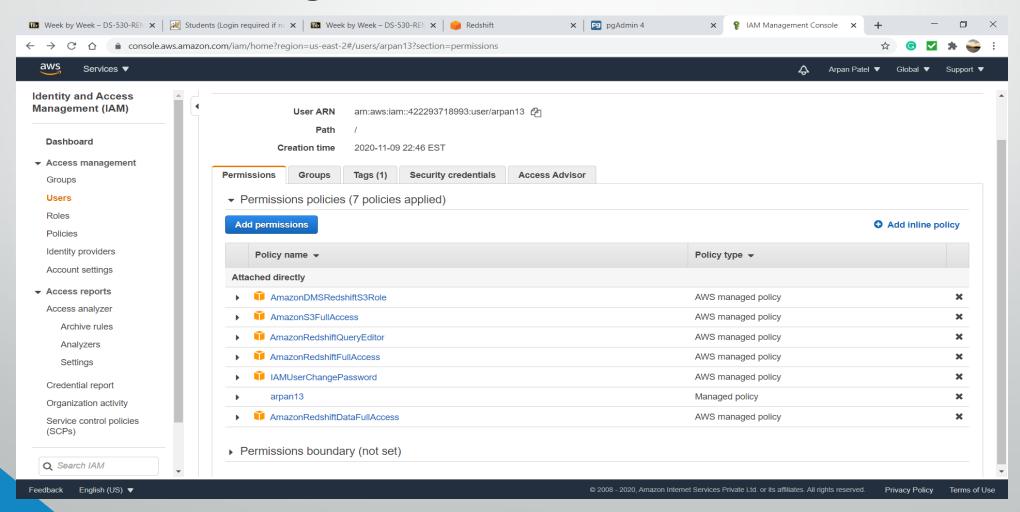
Pycharm code to convert tables to .csv



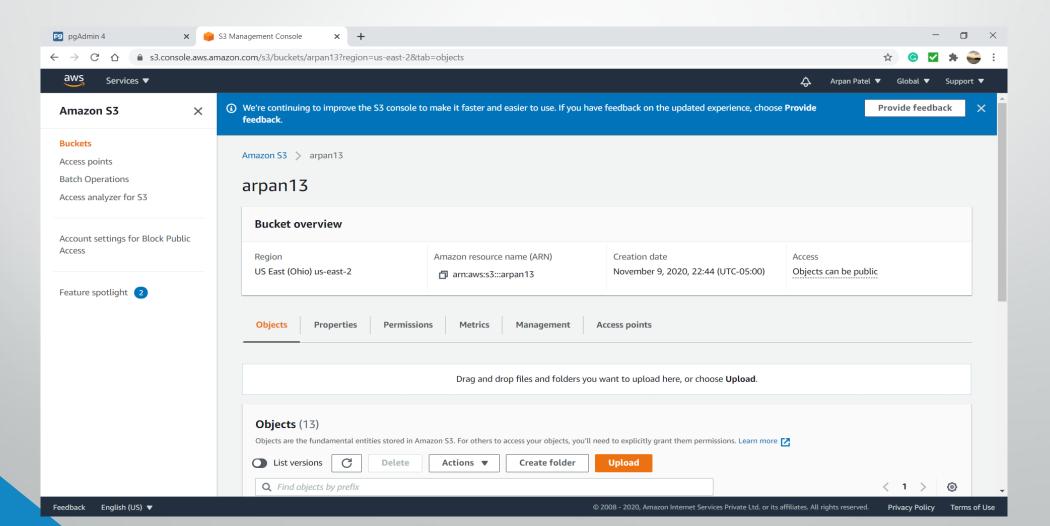
Create IAM user and assign access to s3 Bucket



Assign full access to user



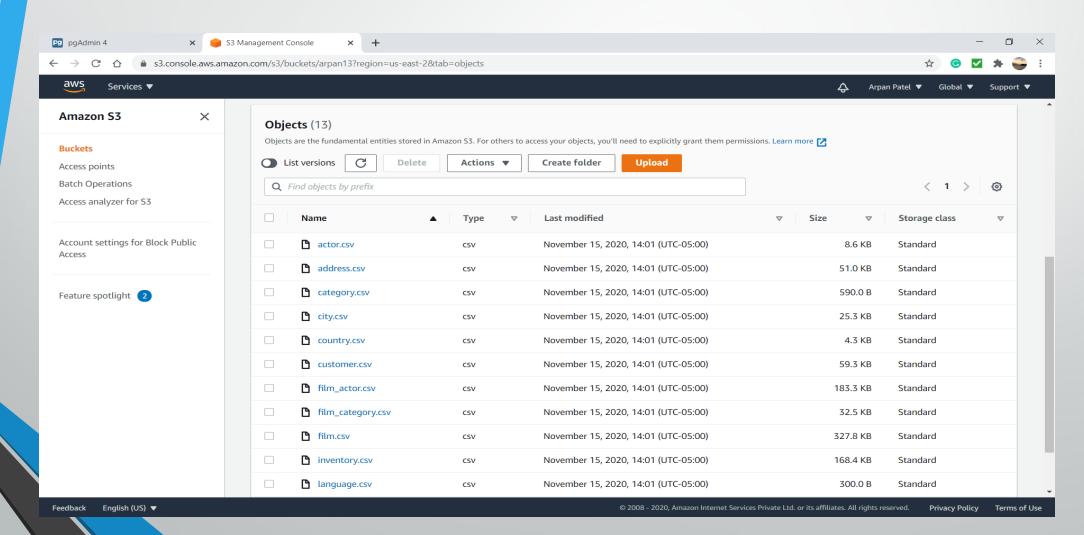
S3 Bucket



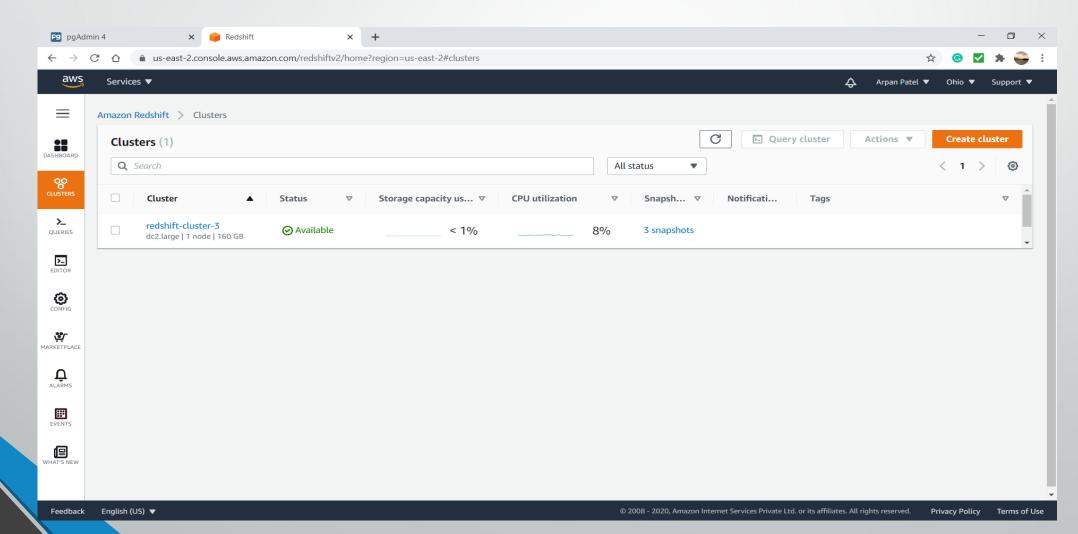
Pycharm code to upload files into s3 bucket

```
import boto3
                                                         A 27 ★ 13 ^
s3 = boto3.client('s3')
s3.upload_file('main.py','arpan13','actor.csv')
s3.upload_file('address.py','arpan13','address.csv')
s3.upload_file('category.py','arpan13','category.csv')
s3.upload_file('city.py','arpan13','city.csv')
s3.upload_file('country.py','arpan13','country.csv')
s3.upload_file('customer.py','arpan13','customer.csv')
s3.upload_file('film.py','arpan13','film.csv')
s3.upload_file('film_actor.py','arpan13','film_actor.csv')
s3.upload_file('film_category.py','arpan13','film_category.csv')
s3.upload_file('inventory.py','arpan13','inventory.csv')
s3.upload_file('language.py','arpan13','language.csv')
s3.upload_file('payment.py','arpan13','payment.csv')
s3.upload_file('rental.py','arpan13','rental.csv')
```

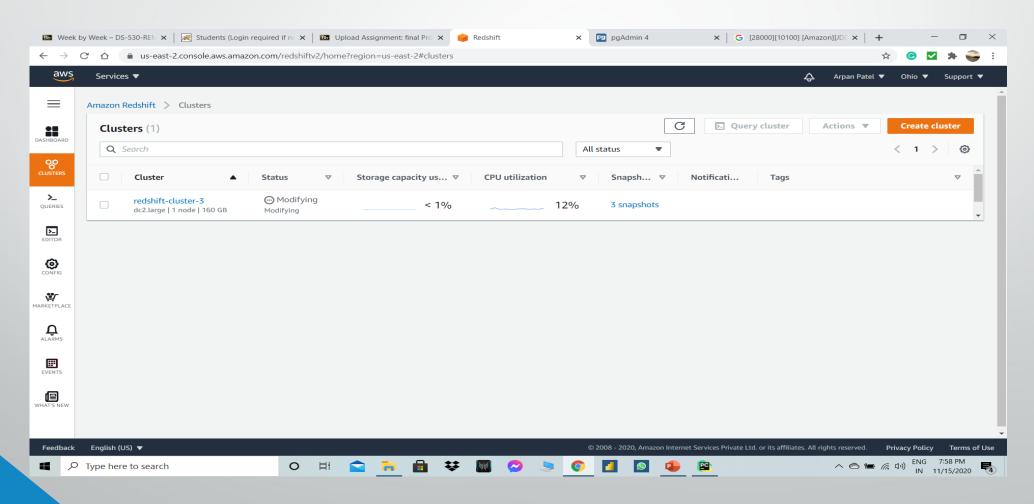
Csv files in S3 Bucket



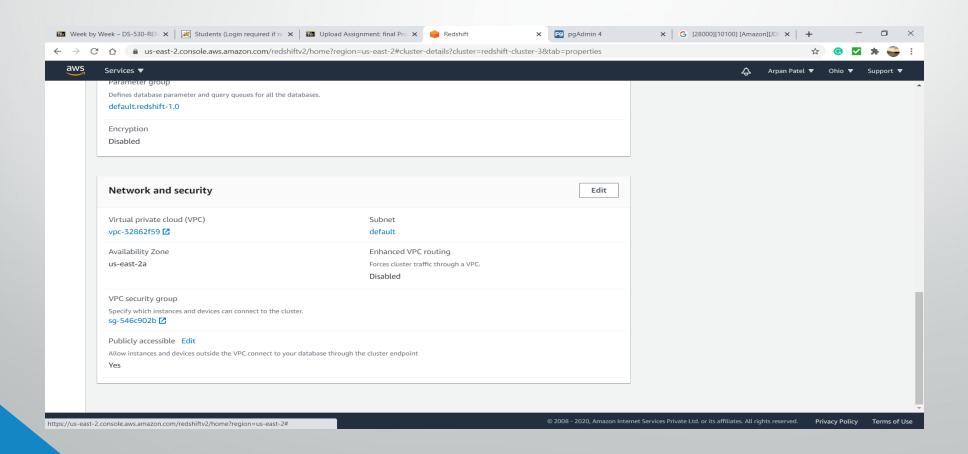
Amazon Redshift Cluster



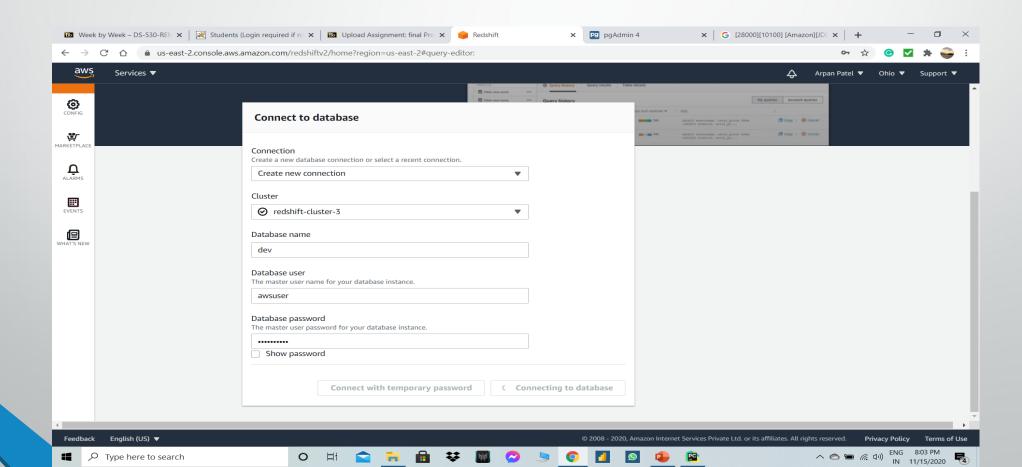
Modifying cluster for public access to yes



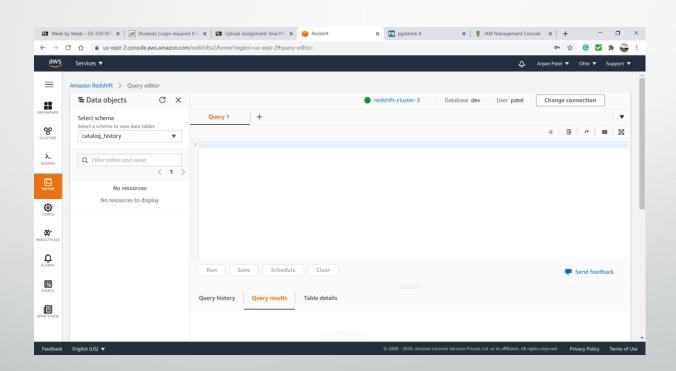
Now publicly accessible to yes if you need to access from internet gateway



Connect to database user in aws redshift for query editor



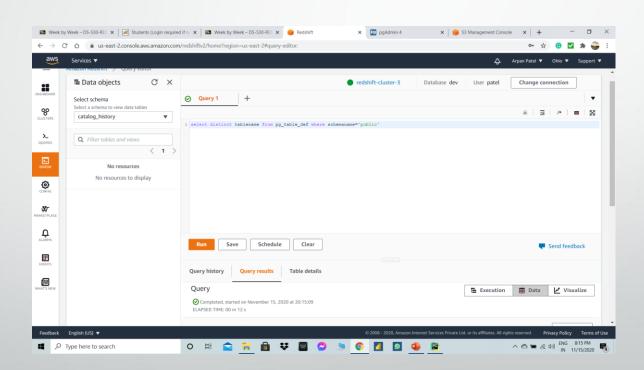
Redshift query editor



Query pycharm

```
import psycopg2
import pprint
#conn_string ="host='localhost' dbname='postgres' user='postgres' password='rootpassword'"
conn_string ="host='localhost' dbname='postgres' user='postgres' password='Arpan@1316'"
conn = psycopg2.connect(conn_string)
cursor = conn.cursor()
#cursor.execute("SELECT relname, relpages FROM pg_class ORDER BY relpages DESC")
cursor.execute("SELECT * FROM public.address")
records = cursor.fetchall()
pprint.pprint(records)
```

Sample Queries in redshift



THANK YOU