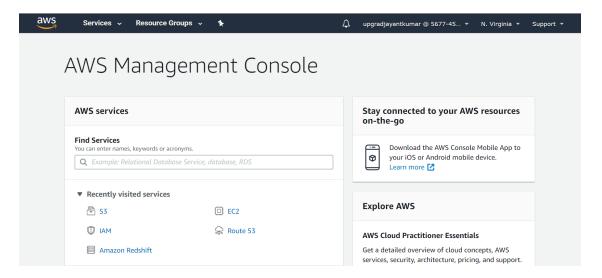


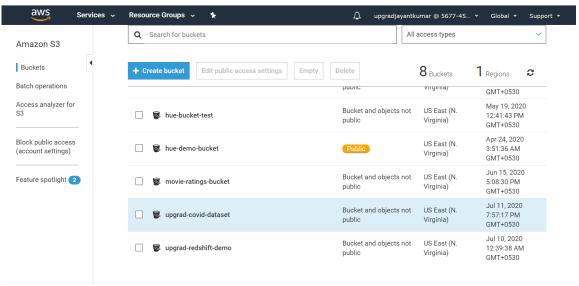


Steps for Loading data into Redshift cluster

- Download data from below URL and save it into the local machine
 https://upgrad-covid19-dataset.s3.amazonaws.com/HospitalBedsIndia.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/AgeGroupDetails.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/ICMRTestingLabs.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/IndividualDetails.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/StatewiseTestingDetails.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/covid_19_india.csv
 https://upgrad-covid19-dataset.s3.amazonaws.com/population_india_census2011.csv
- 2 Search S3 in Amazon dashboard



Create a new S3 bucket where you can upload these datasets



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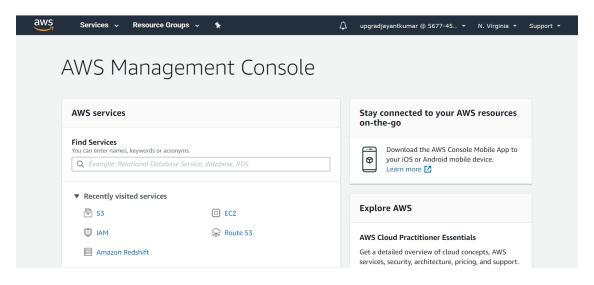




4. Upload datasets into newly created S3 bucket



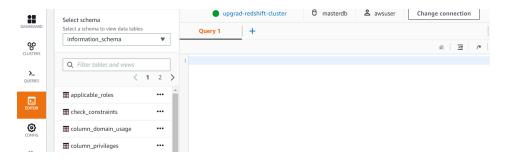
5. Again Go to Amazon Management Console and search 'Redshift'







Go to the option Editor. Click on it and you will redirect to query editor
 Note: Make sure your cluster should be on a running stage if it is in pause or stop then resume or create it.



Create schema with upgrad_covid_demo;

```
create schema upgrad_covid_demo;
```

8. Create a table age_group_details

```
create table upgrad_covid_demo.age_group_details (
   sno int,
   agegroup varchar(10),
   totalcases int,
   percentage varchar(5));
```

9. Create a table covid19_india_case

```
create table upgrad_covid_demo.covid19_india_case (
    sno int,
    registereddate varchar(15),
    registeredtime varchar(15),
    state_ut varchar(50),
    confirmedindiannational int,
    confirmedforeignnational int,
    cured int,
    deaths int,
    confirmed int );
```





10. Create a table **statewise_testing_details**

```
create table upgrad_covid_demo.statewise_testing_details (
  registereddate varchar(15),
  state_name varchar(50),
  totalsamples real,
  negative_sample real,
  positive_sample real );
```

11. Create a table hospital_beds

```
create table upgrad_covid_demo.hospital_beds(
    sno int,
    state_ut varchar(30),
    primaryhealthcenters_hmis int,
    communityhealthcenters_hmis int,
    subdistricthospitals_hmis int,
    districthospitals_hmis int,
    totalpublichealthfacilities_hmis int,
    publicbeds_hmis int,
    ruralhospitals_nhp18 int,
    ruralbeds_nhp18 int,
    urbanhospitals_nhp18 int,
    urbanbeds_nhp18 int);
```

12. Create table icmrtestinglabs

```
create table upgrad_covid_demo.icmrtestinglabs(
  lab_name varchar(1000),
  address varchar(1000),
  pincode int,
  state varchar(50),
  type varchar(50));
```





13. Create table individual_details

```
create table upgrad_covid_demo.individual_details(
   id int,
   government_id varchar(50),
   diagnosed_date varchar(10),
   age varchar(10),
   gender varchar(5),
   detected_city varchar(40),
   detected_dist varchar(40),
   detected_state varchar(40),
   nationality varchar(40),
   current_status varchar(30),
   status_change_date varchar(30),
   notes varchar(600));
```

14. Create a table india_2011_population

```
create table upgrad_covid_demo.india_2011_population (
   sno int,
   state_ut varchar(50),
   population bigint,
   ruralpopulation bigint,
   urbanpopulation bigint,
   area varchar(100),
   density varchar(100),
   gender_ratio int );
```

15. Now back to redshift query editor and start loading data into tables that we created above.

Please note to update your S3 Bucket name and the IAM_role ARN string in all of these COPY command.

16. Load data into age_group_details

```
copy upgrad_covid_demo.age_group_details
from 's3://upgrad-covid-dataset/AgeGroupDetails.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```





17. Load data into covid19_india_case

```
copy upgrad_covid_demo.covid19_india_case
from 's3://upgrad-covid-dataset/covid_19_india.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```

18. Load data into hospital_beds

```
copy upgrad_covid_demo.hospital_beds
from 's3://upgrad-covid-dataset/HospitalBedsIndia.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```

19. Load data into icmrtestinglabs

```
copy upgrad_covid_demo.icmrtestinglabs
from 's3://upgrad-covid-dataset/ICMRTestingLabs.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```

20. Load data into individual_details

```
copy upgrad_covid_demo.individual_details
from 's3://upgrad-covid-dataset/IndividualDetails.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```

21. Load data into statewise_testing_details

```
copy upgrad_covid_demo.statewise_testing_details
from 's3://upgrad-covid-dataset/StatewiseTestingDetails.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```





22. Load data into india_2011_population

```
copy upgrad_covid_demo.india_2011_population
from 's3://upgrad-covid-dataset/population_india_census2011.csv'
iam_role 'arn:aws:iam::567745680952:role/upgrad-redshift-s3-access'
delimiter ',' region 'us-east-1'
CSV;
```

23. Finally, the table is created and data also loaded into it. Now start exploring data and find the answers to all questions.