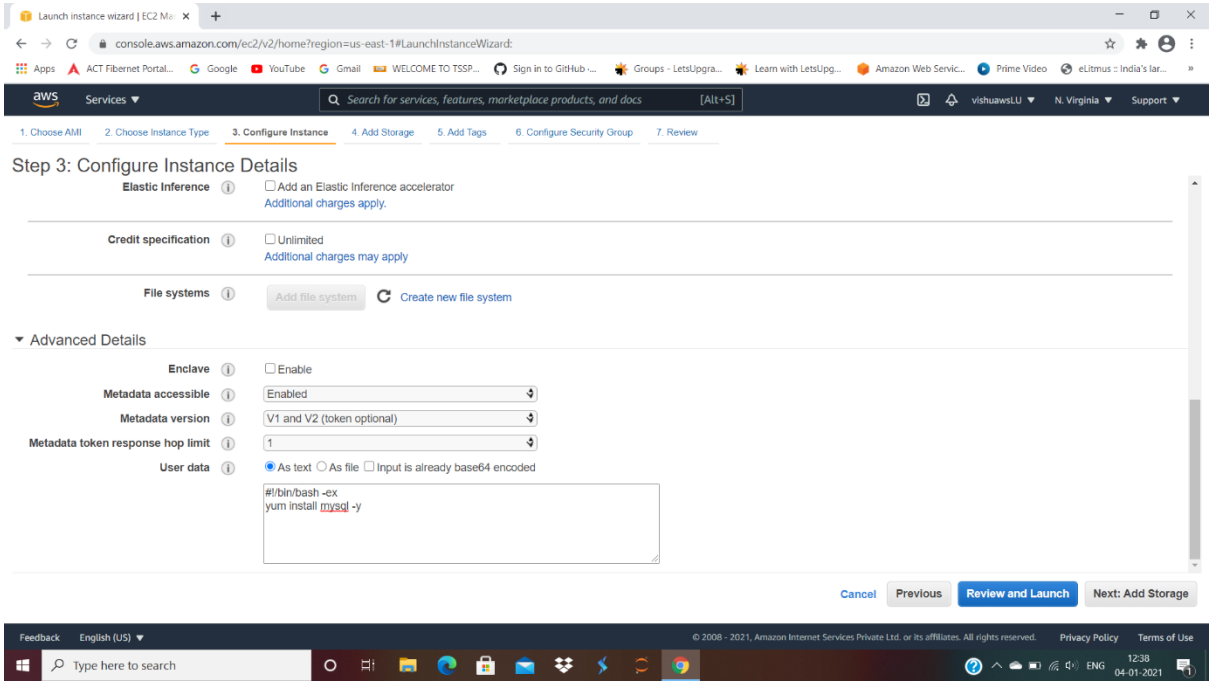
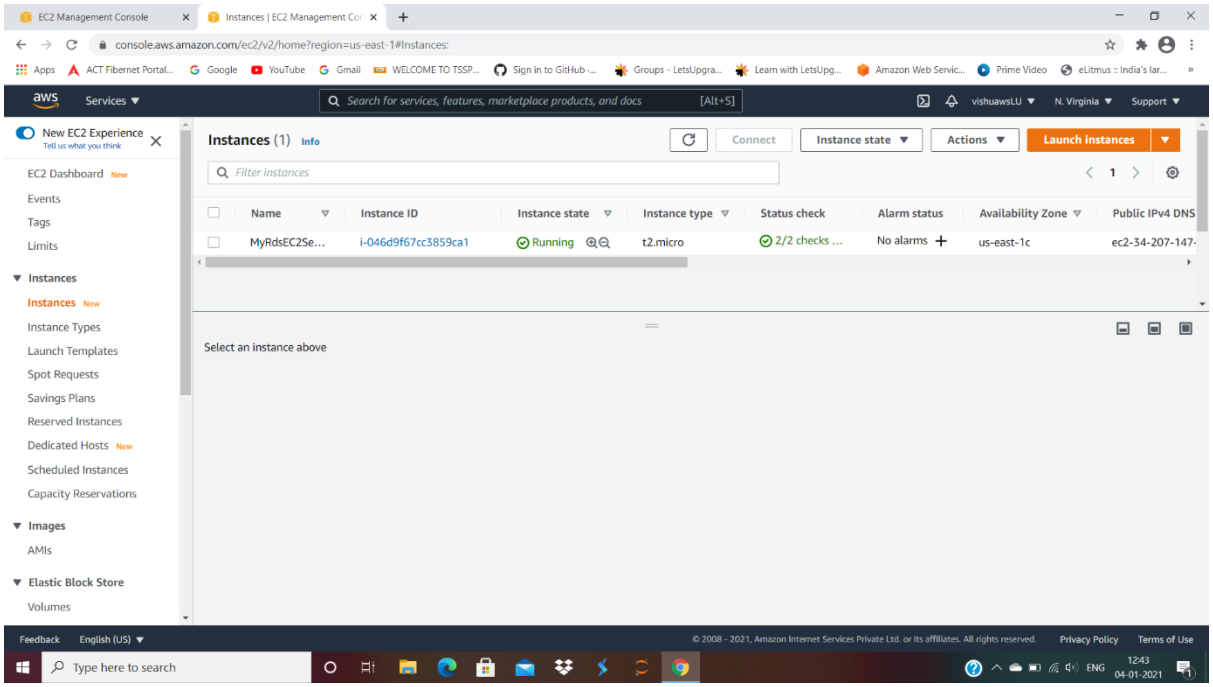
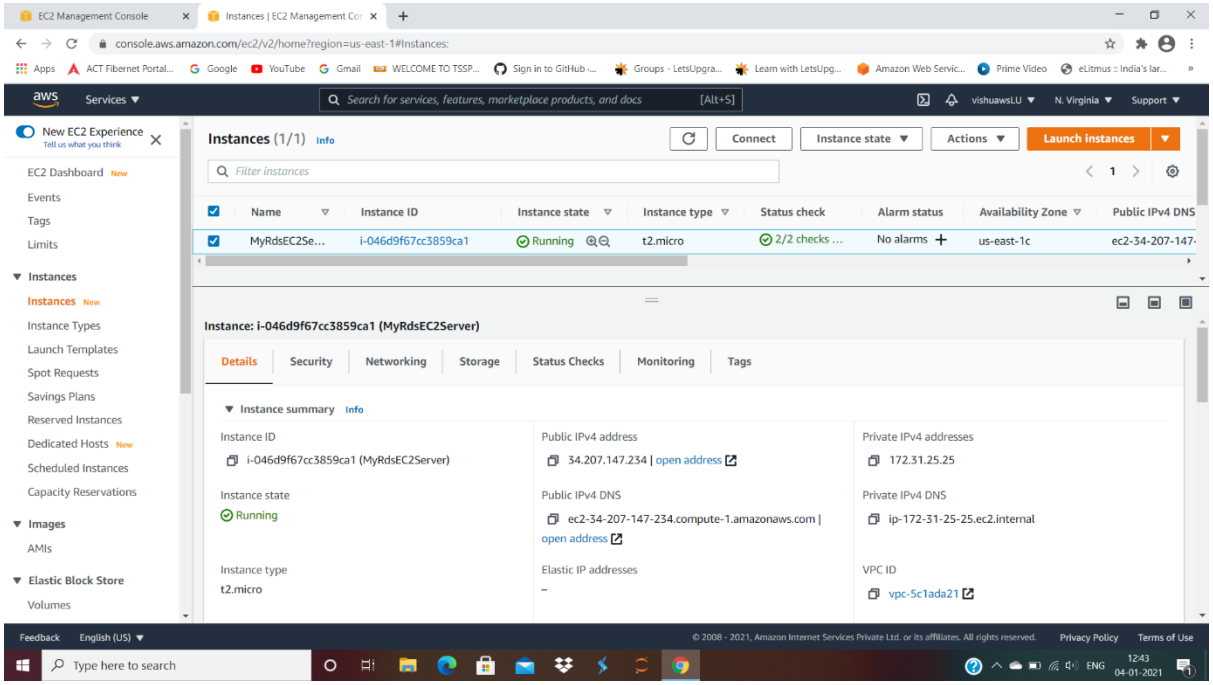
AWS PROJECT 2

Deploying Amazon RDS Multi A-Z and read Replica, Stimulate Failover

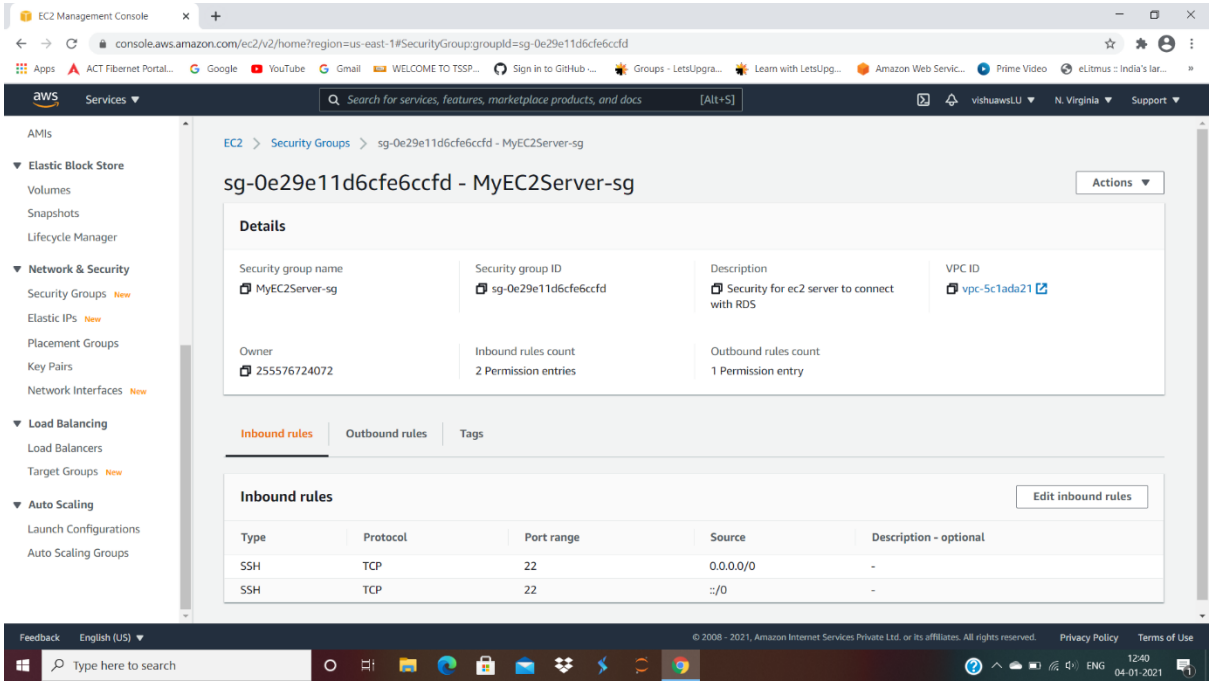
Step-1: Create EC2 Instance



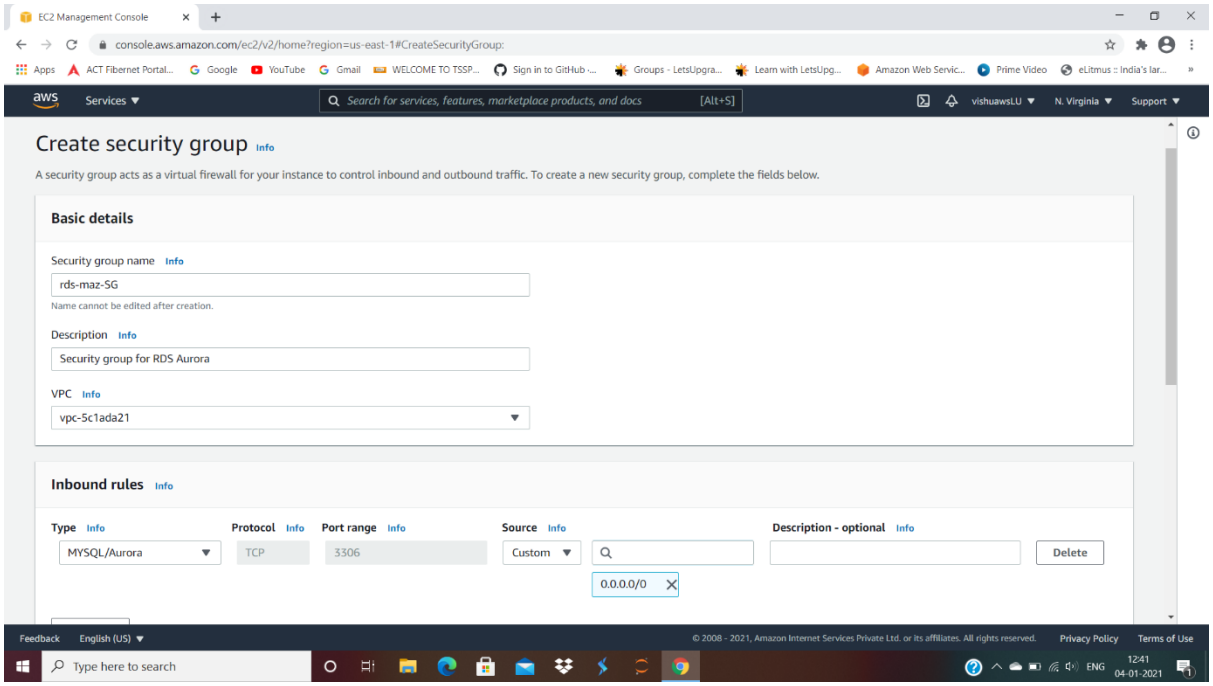


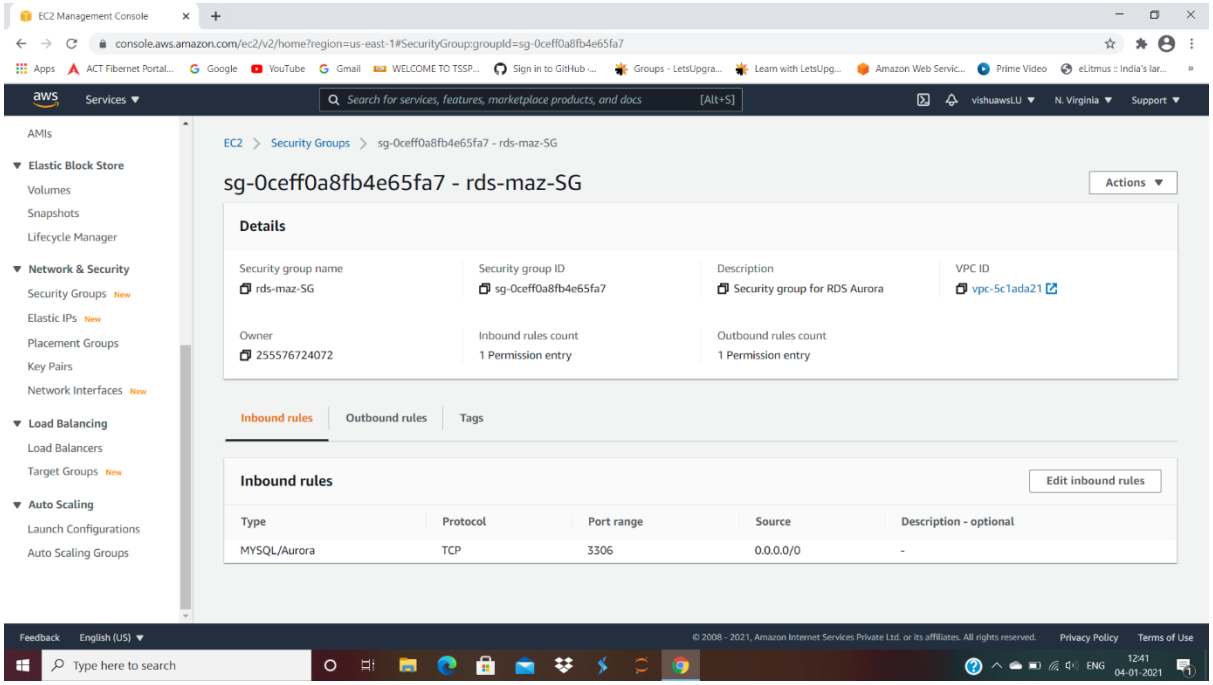


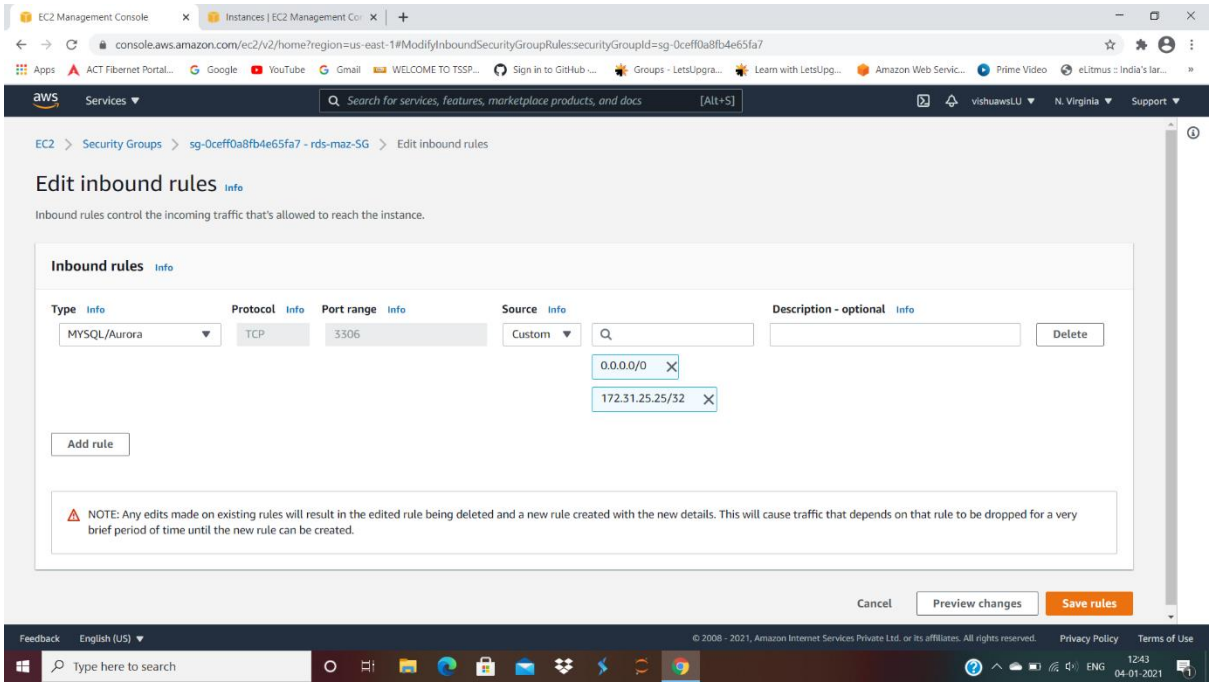
Step-2: Create Security group for EC2 Instances



Step-3: Create Security group for RDS Instances






EC2 Management Console
Instances | EC2 Management Co
console.aws.amazon.com/ec2/v2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0ceff0a8fb4e65fa7
Services
Search for services, features, marketplace products, and docs [Alt+S]
vishuawsLU
N. Virginia
Support
EC2 > Security Groups > sg-0ceff0a8fb4e65fa7 - rds-maz-SG > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
MYSQL/Aurora
TCP
3306
Custom
0.0.0.0/0
172.31.25.25/32
Delete
Add rule
NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.
Cancel
Preview changes
Save rules
Feedback
English (US)
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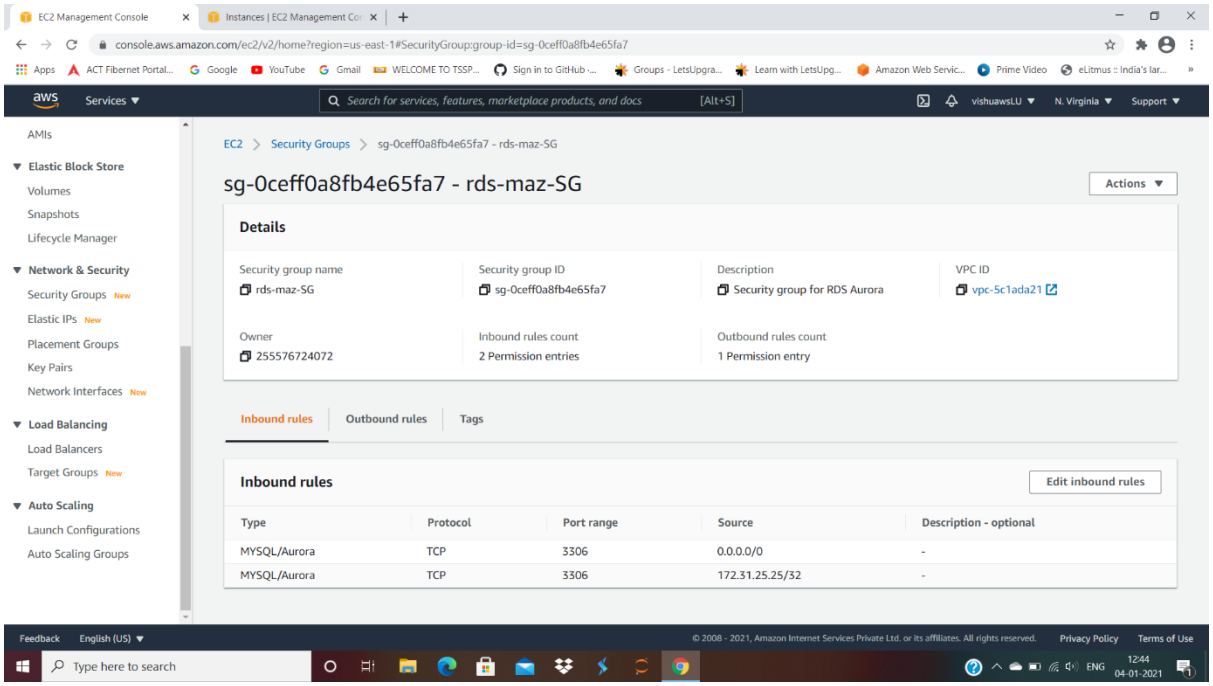
EC2 Management Console
Instances | EC2 Management Co
console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroup:group-id=sg-0ceff0a8fb4e65fa7
Services
Search for services, features, marketplace products, and docs [Alt+S]
vishuawsLU
N. Virginia
Support
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups New
Elastic IPs New
Placement Groups
Key Pairs
Network Interfaces New
Load Balancing
Load Balancers
Target Groups New
Auto Scaling
Launch Configurations
Auto Scaling Groups
EC2 > Security Groups > sg-0ceff0a8fb4e65fa7 - rds-maz-SG
sg-0ceff0a8fb4e65fa7 - rds-maz-SG
Actions
Details
Security group name
rds-maz-SG
Security group ID
sg-0ceff0a8fb4e65fa7
Description
Security group for RDS Aurora
VPC ID
vpc-5c1ada21
Owner
255576724072
Inbound rules count
2 Permission entries
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags
Inbound rules
Edit inbound rules
Type
Protocol
Port range
Source
Description - optional
MYSQL/Aurora
TCP
3306
0.0.0.0/0
-
MYSQL/Aurora
TCP
3306
172.31.25.25/32
-
Feedback
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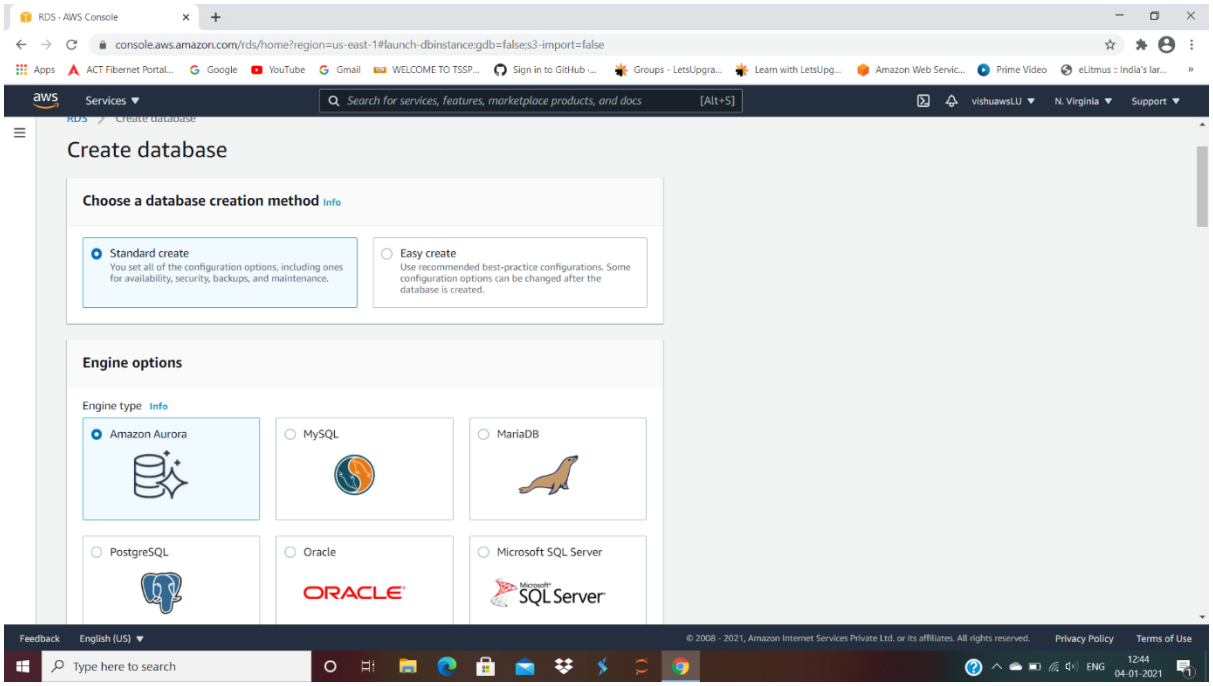
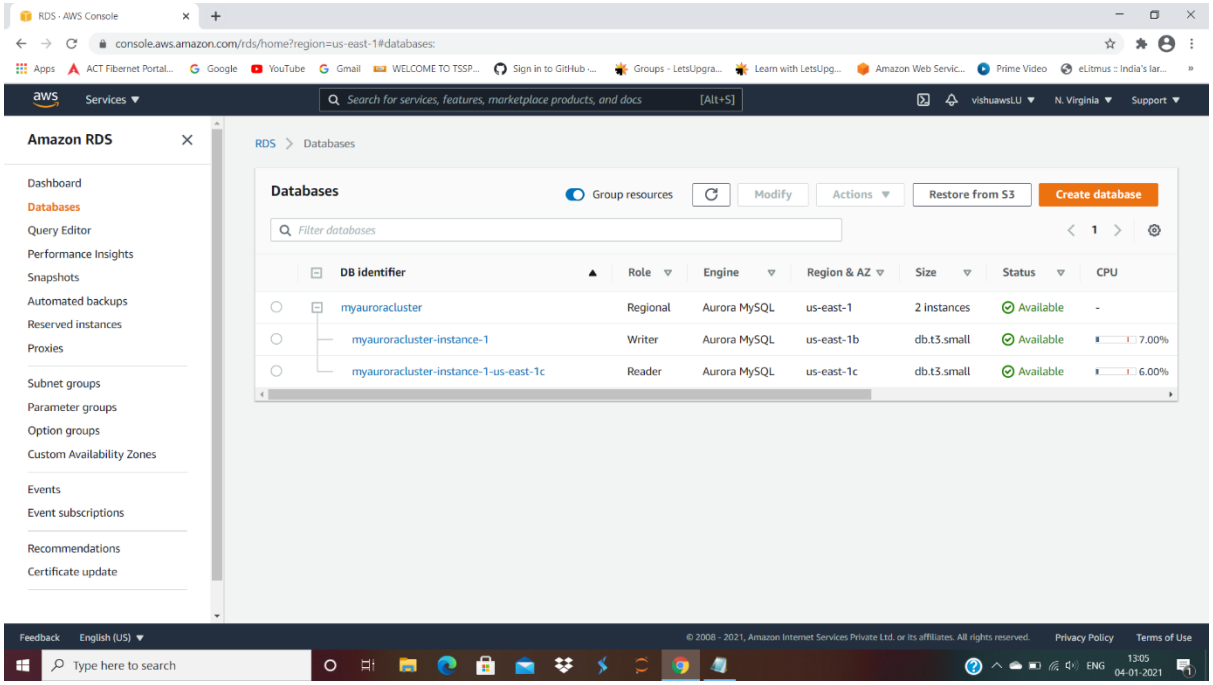
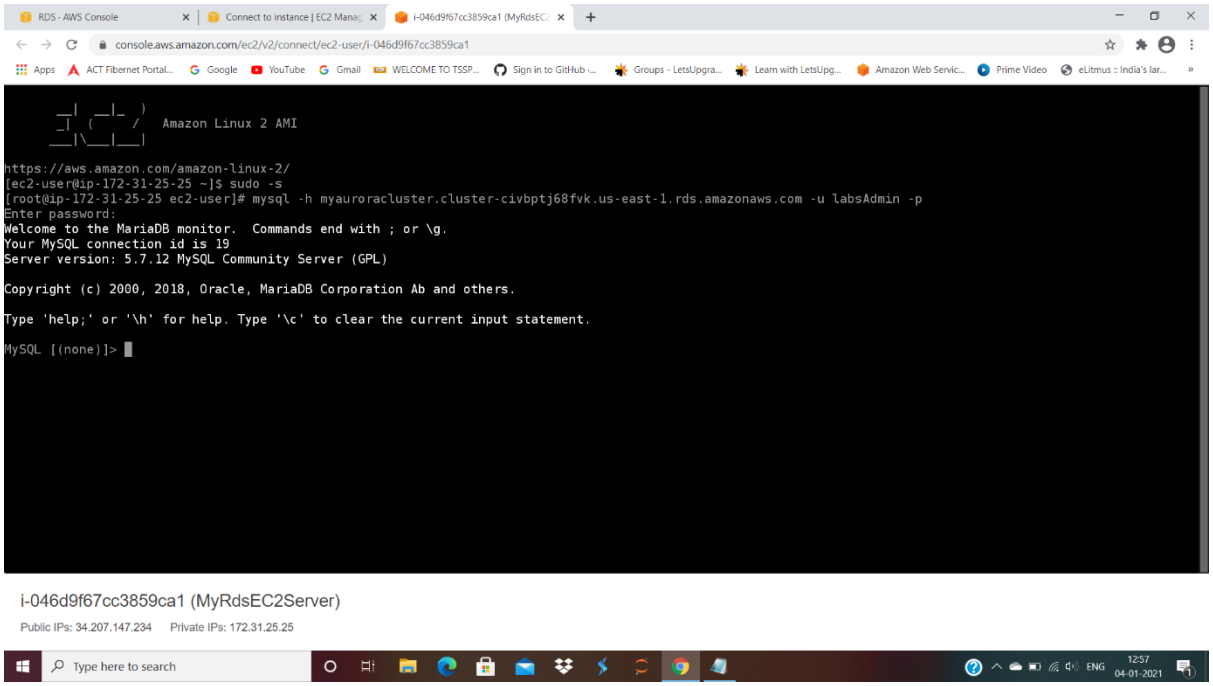
Step-4: Create Amazon Aurora databases with Multi A-Z Enable

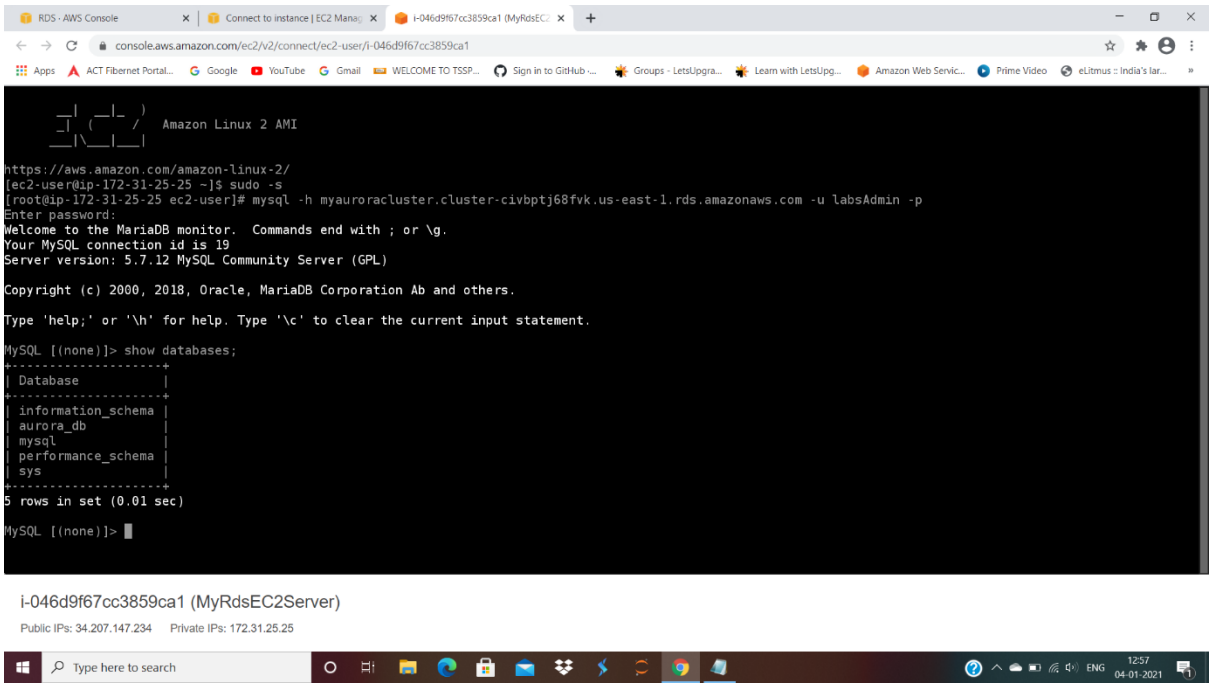




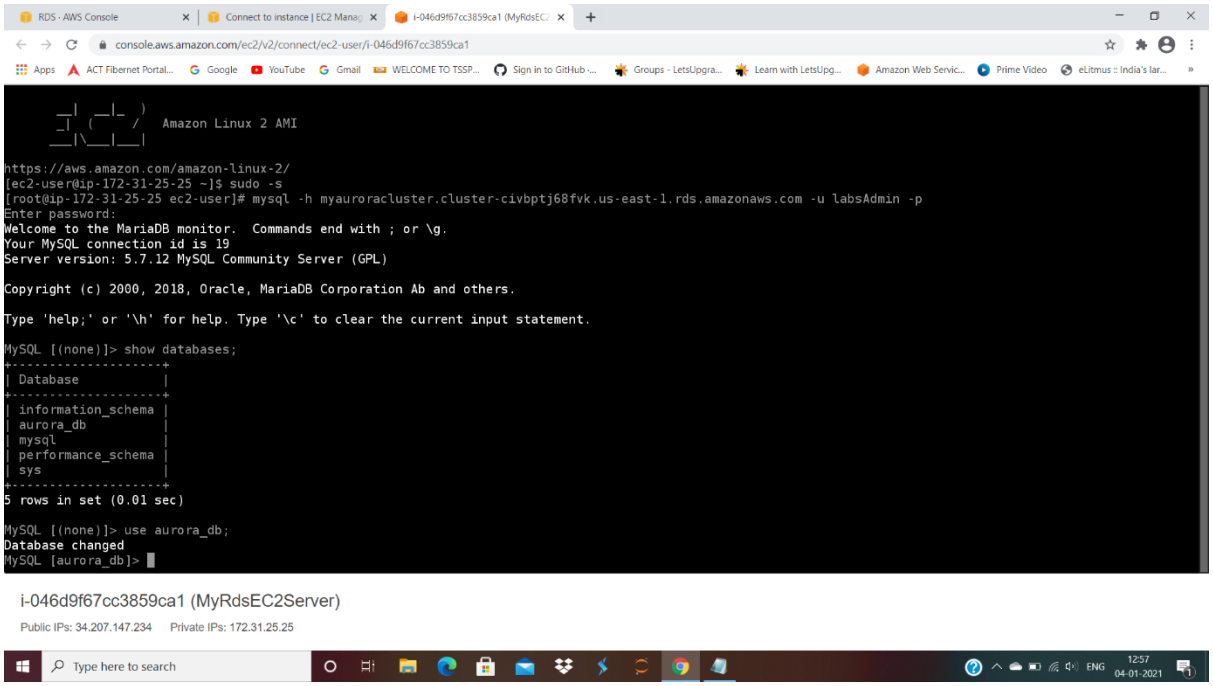
Step-5: Connect to the RDS database instance (using its endpoint) from your local machine.



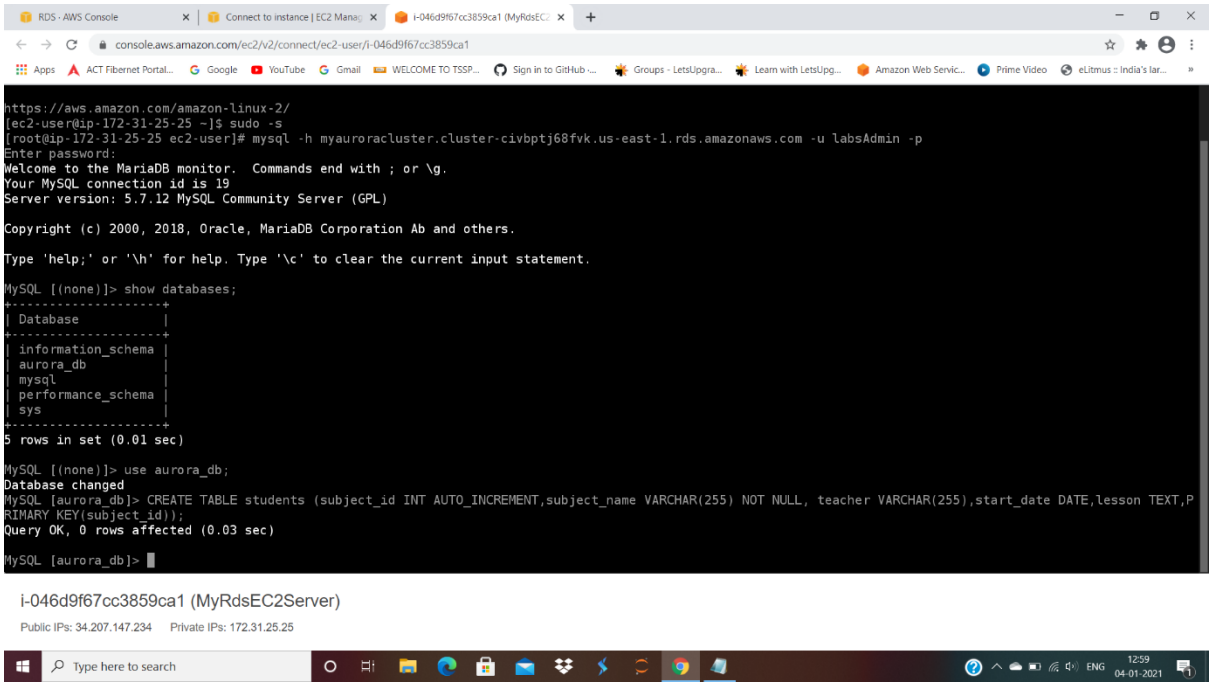
show databases;



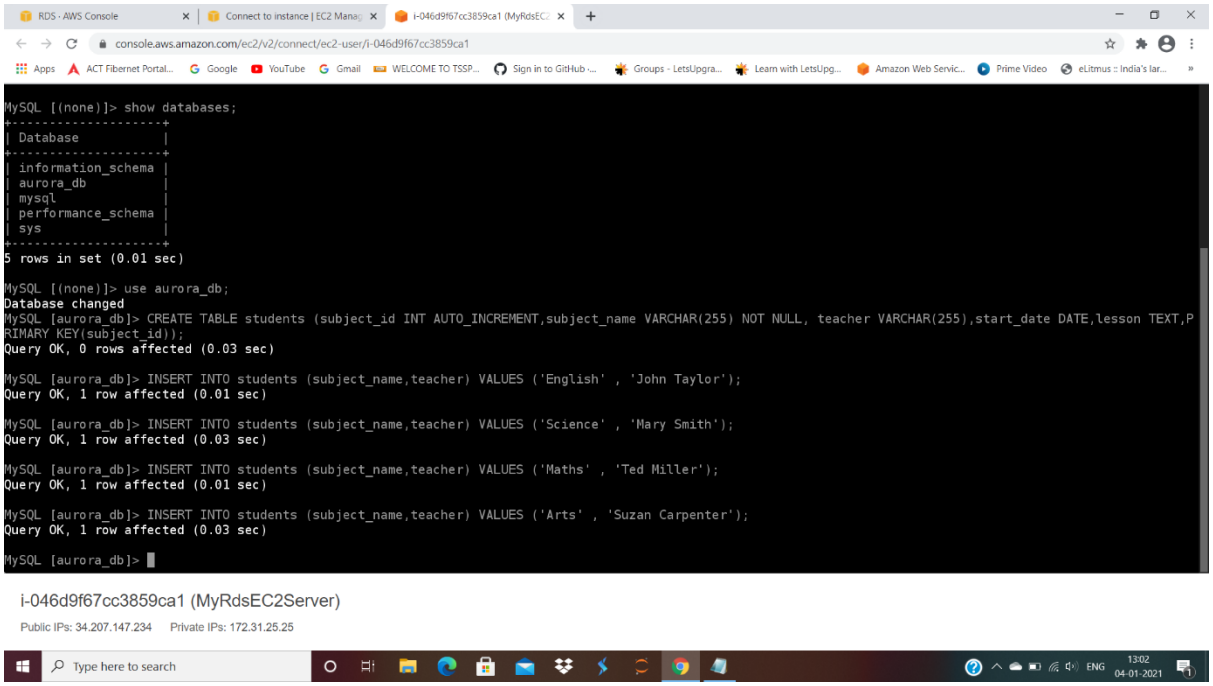
use auroro_db;



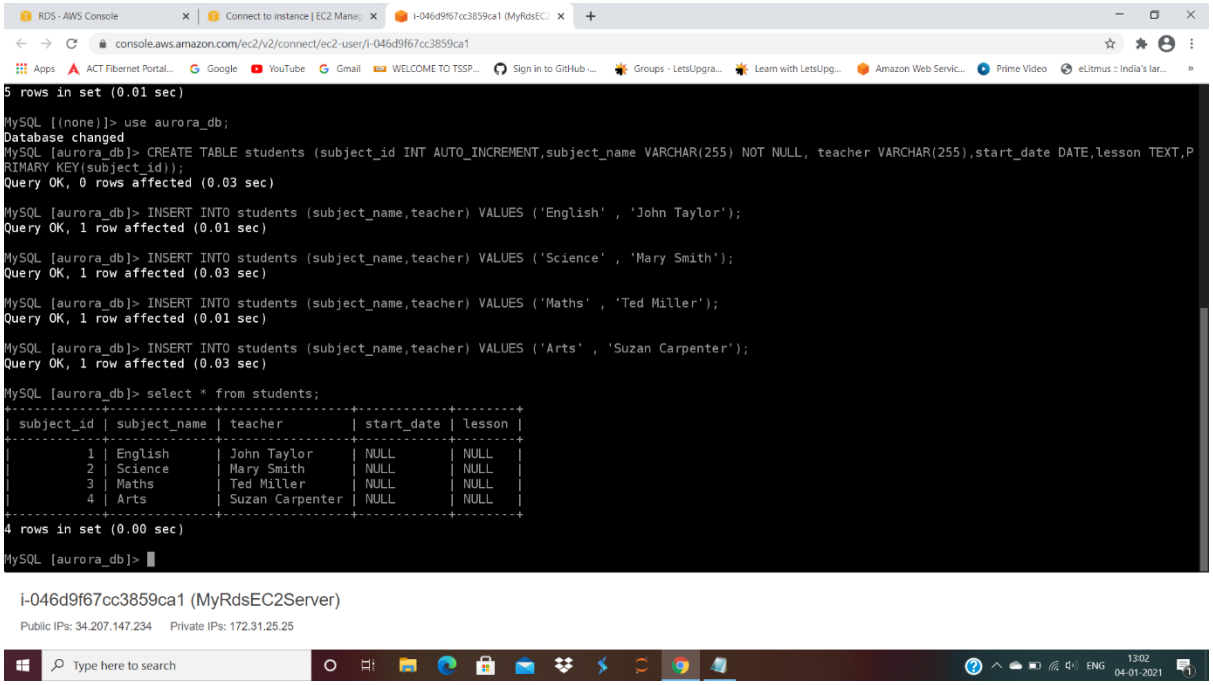
Step-6 :CREATE TABLE students (subject_id INT AUTO_INCREMENT, subject_name VARCHAR(255) NOT NULL, teacher VARCHAR(255),start_date DATE, lesson TEXT,PRIMARY KEY (subject_id));



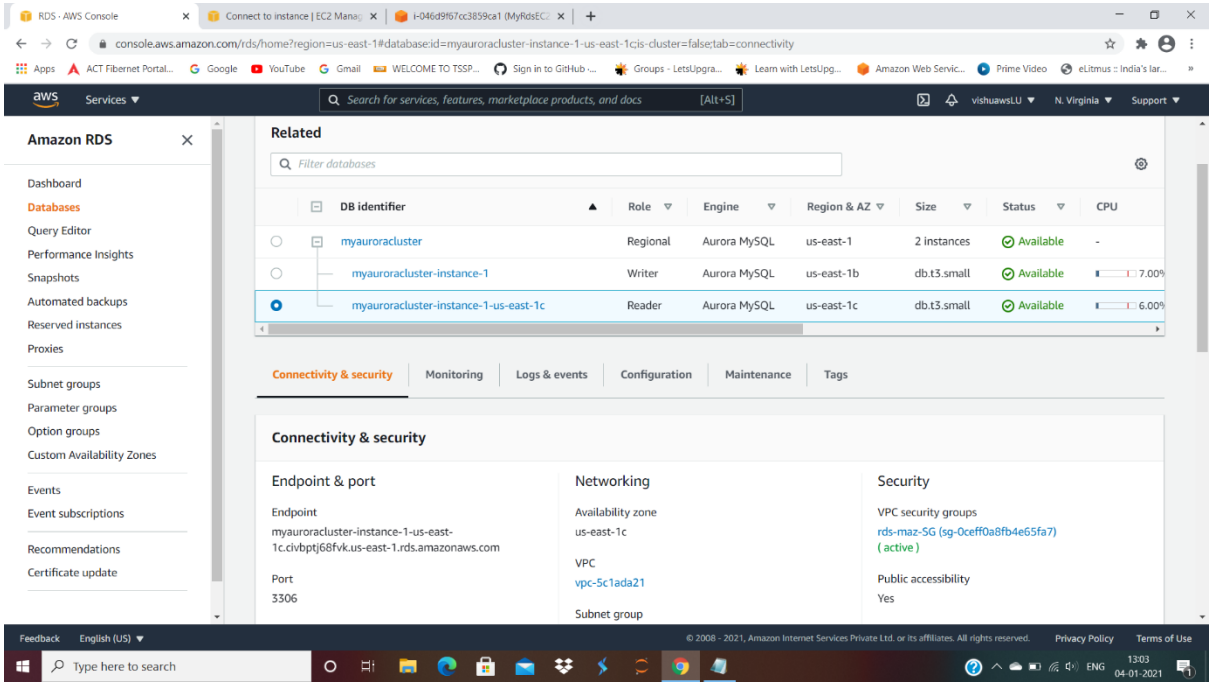
Step-7: Insert data into the table:

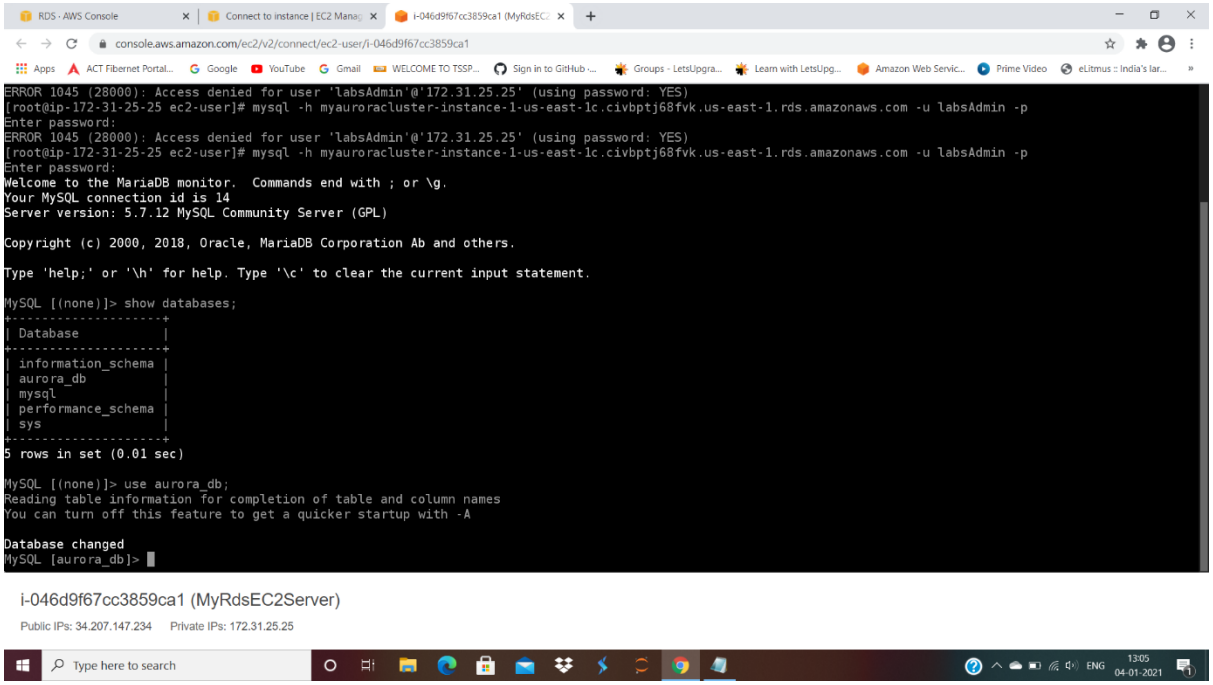


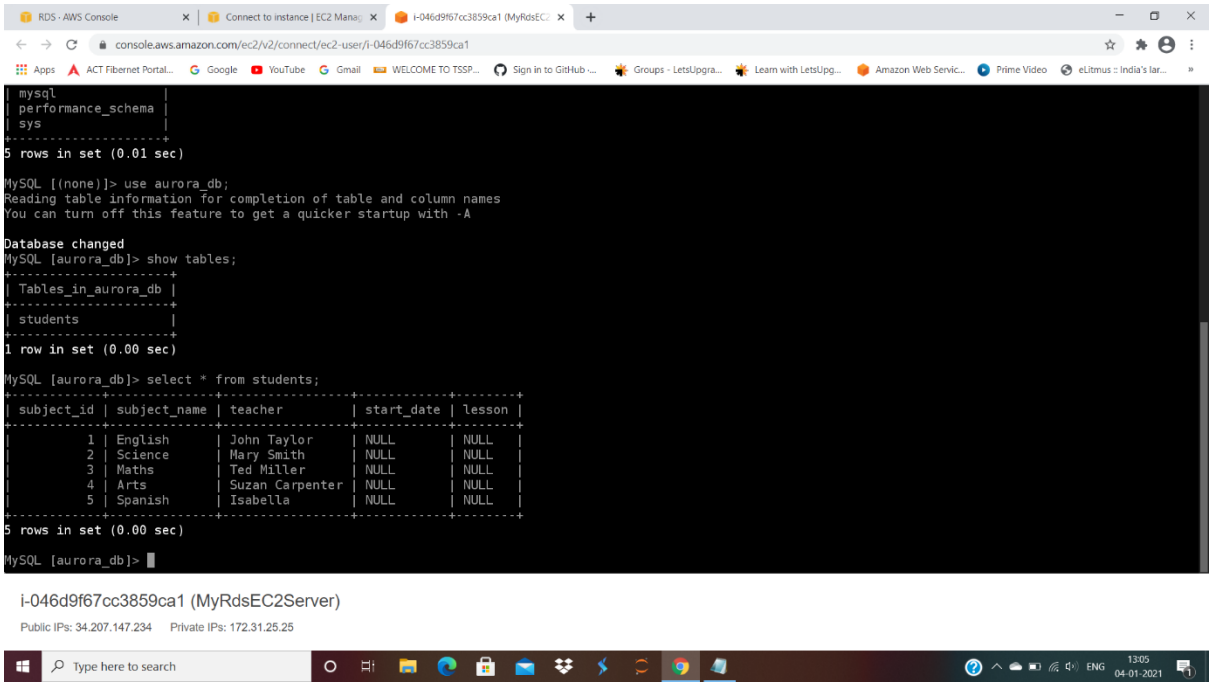
select * from students;



Step-8: Testing the Failover Condition

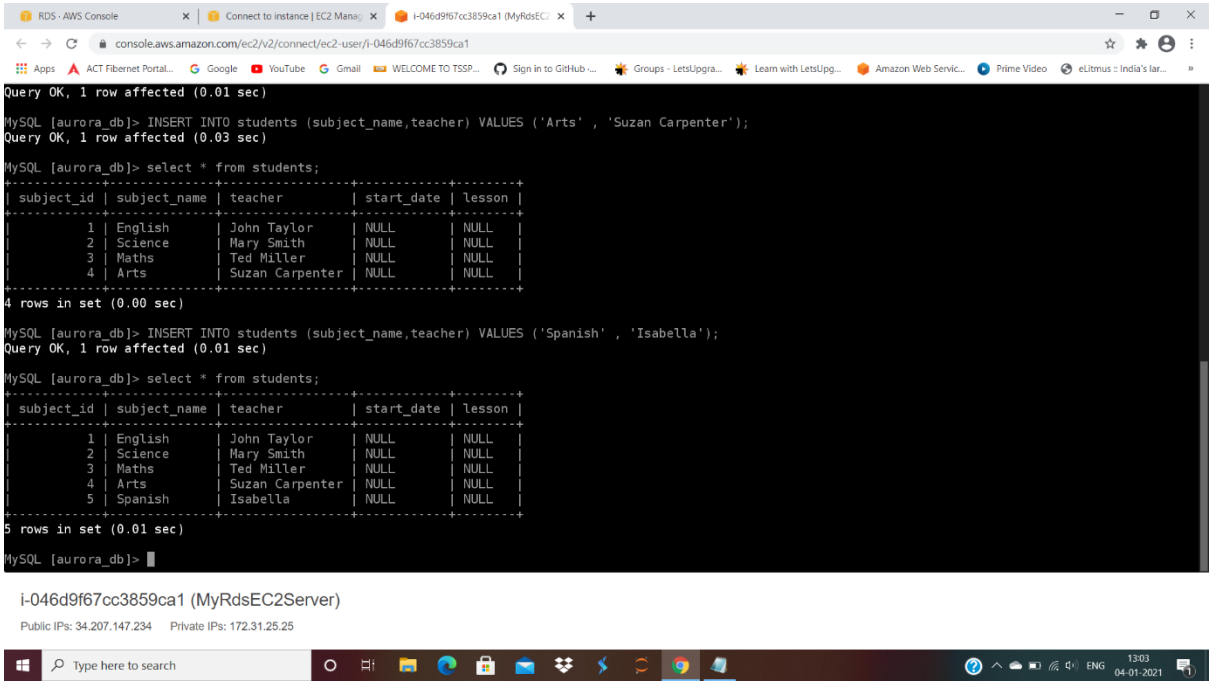


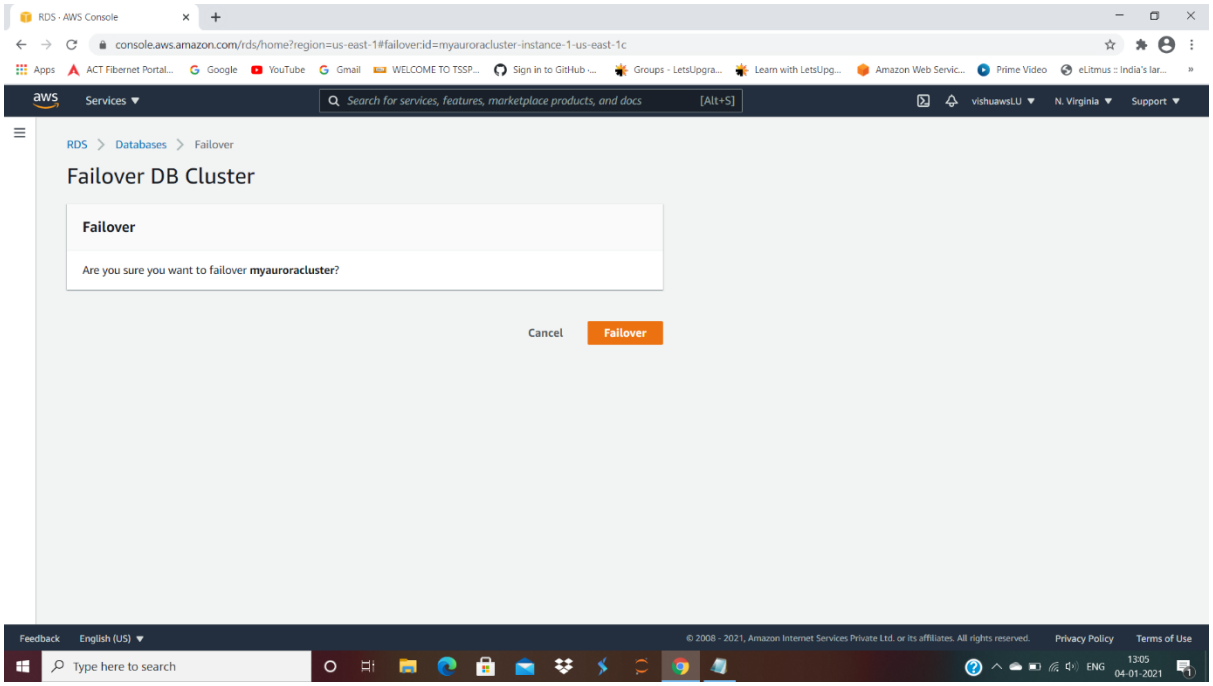




Step-9: INSERT INTO students(subject_name, teacher) VALUES ('Spanish', 'Isabella');

select * from students;




RDS · AWS Console
console.aws.amazon.com/rds/home?region=us-east-1#failover:id=myauroracluster-instance-1-us-east-1c
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Failover DB Cluster
Failover
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