

ASSIGNMENT - 5

Task 1: Create an Aurora Database and connect to it from an EC2

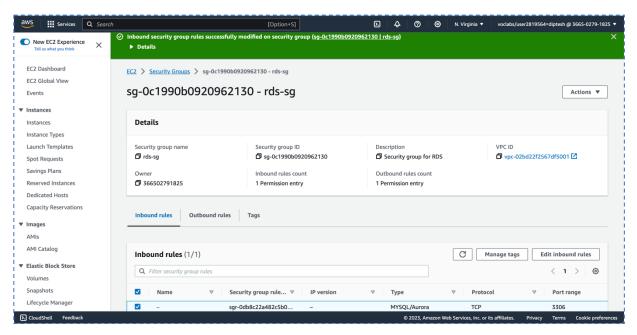
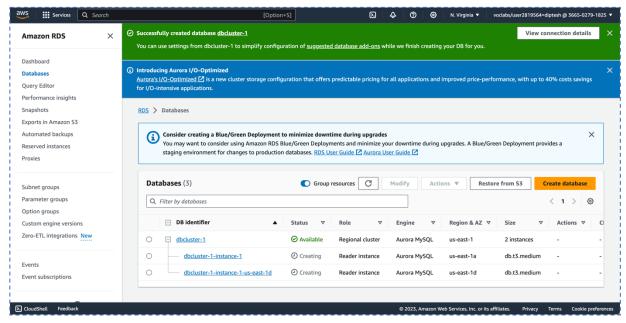


Image - 1: Security group created for RDS.

(*Forgot to take the initial screenshot so screenshot taken after updating the RDS security group was updated to allow access only from EC2 instance).



<u>Image - 2: Created RDS with Aurora (MySQL compatible) engine containing "university"</u>
database and root database user.

Submitted By: Diptesh Shrestha (ID# 615429) Last updated Date: Monday, Oct 09, 2023



```
Services Q Search
                                                                                 [Option+S]
                                                                                                                     mariadb-connector-c-3.1.13-1.amzn2023.0.3.x86_64
mariadb105-common-3:10.5.20-1.amzn2023.0.1.x86_64
                                                                  mariadb-connector-c-config-3.1.13-1.amzn2023.0.3.noarch perl-Sys-Hostname-1.23-477.amzn2023.0.5.x86_64
                                                                                                                                           mariadb105-3:10.5.20-1.amzn2023.0.1.x86_64
mplete!
pot@ip-172-31-37-18 ec2-user]# mysql -h dbcluster-1.cluster-cd64zhtvgox3.us-east-1.rds.amazonaws.com -P 3306 -u root -p
nter password:
slcome to the MariaDB monitor. Commands end with ; or \g.
pur MySQL connection id is 1324
erver version: 8.0.23 Source distribution
pyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
pe 'help;' or '\h' for help. Type '\c' to clear the current input statement.
SQL [(none)]> show databases
information_schema
mysql
performance_schema
sys
university
rows in set (0.001 sec)
 OL [(none)]>
i-098e5e378dc1f0f8b (ec2-instance-1)
PublicIPs: 54.162.72.97 PrivateIPs: 172.31.37.18
```

<u>Image - 3: After the MySQL client was installed, got connected to primary instance of our database server, showing databases.</u>

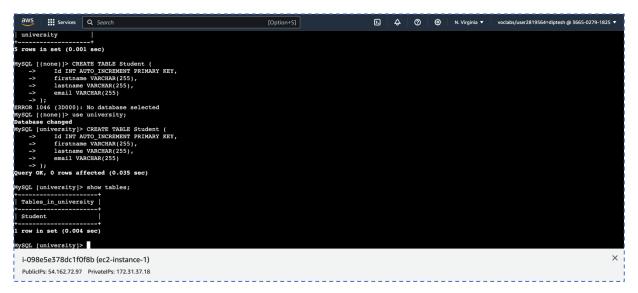


Image - 4: Created a table name Student under the university database.



```
Services Q Search
                                                                                                     [Option+S]
                                                                                                                                                  ② N. Virginia ▼ voclabs/user2819564=diptesh @ 3665-0279-1825 ▼
  -> );
ry OK, 0 rows affected (0.035 sec)
SQL [university]> show tables;
Tables_in_university
row in set (0.004 sec)
SQL [university]> INSERT INTO Student (firstname, lastname, email)
  Di [univerBity] * Norm. - VALUES - VALUES - VALUES - ('John', 'Doe', 'john.doe@example.com'), -> ('Jane', 'Smith', 'jane.smith@example.com'), -> ('Alice', 'Johnson', 'alice.johnson@example.com'); ry OK, 3 rows affected (0.004 sec) ords: 3 Duplicates: 0 Warnings: 0
 SQL [university]> SELECT * FROM Student;
Id | firstname | lastname | email
                                         john.doe@example.com
jane.smith@example.com
alice.johnson@example.com
                         Doe
Smith
Johnson
rows in set (0.001 sec)
 SQL [university]>
i-098e5e378dc1f0f8b (ec2-instance-1)
PublicIPs: 54.162.72.97 PrivateIPs: 172.31.37.18
```

Image - 5: Inserted some dummy data into the Student table.

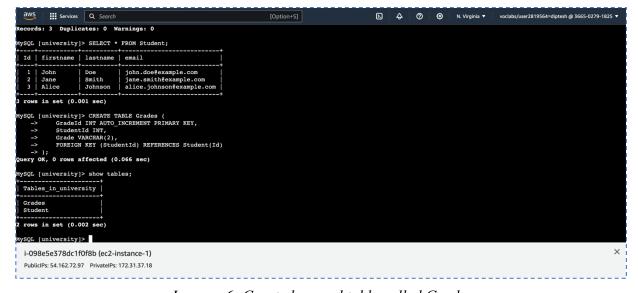
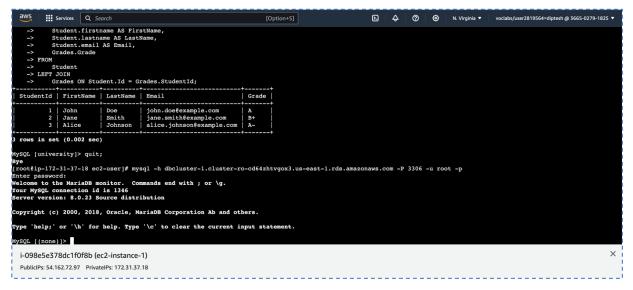


Image - 6: Created second table called Grades.

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Image - 7: Inserted dummy data into the Grades table.



<u>Image - 8: Disconnected from the primary instance of our database server and connected to the</u>
<u>read instance of our database server.</u>



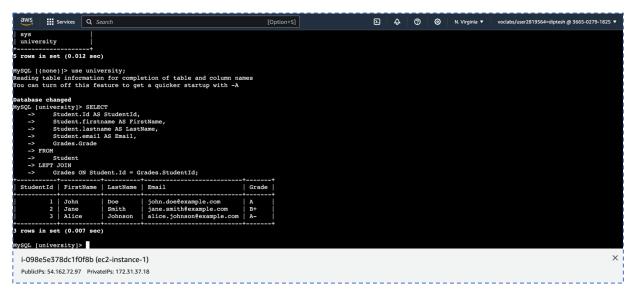


Image - 9: Running a joined query to view the Student and their Grades information.

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