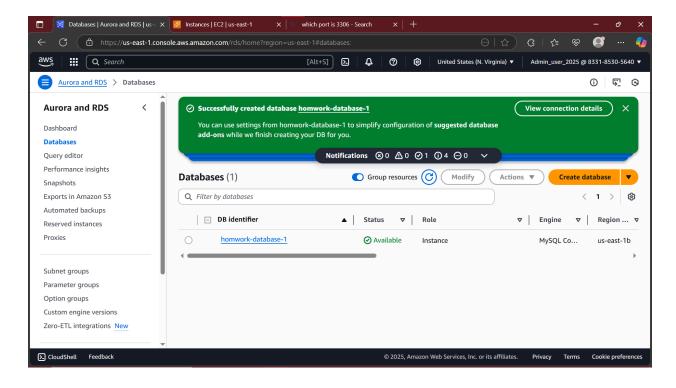
AWS Cloud & DevOps

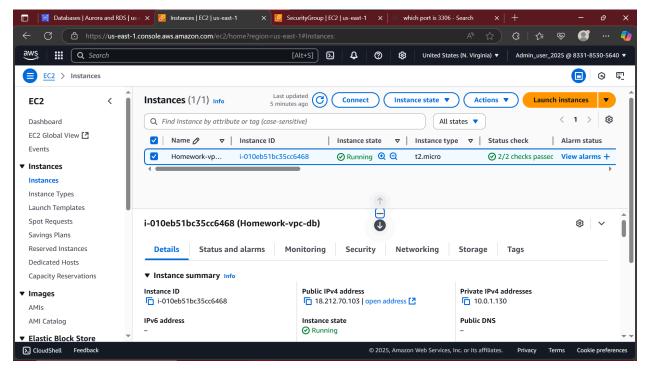
Ebubechukwu Azozie

HomeWork:

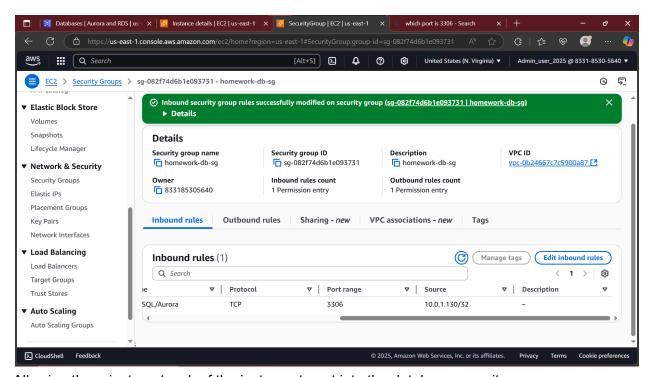
Create a MySQL RDS DB instance (using the free tier)



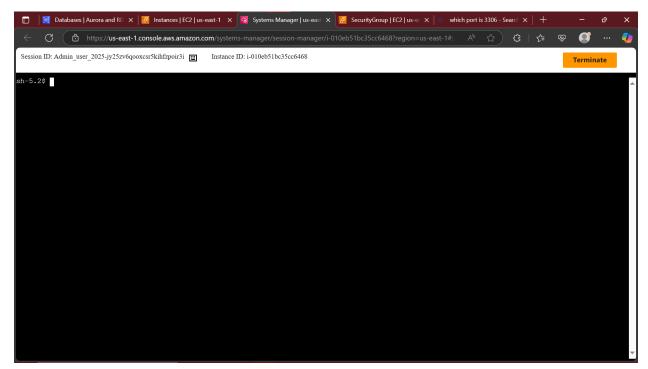
Connect to your database using an EC2 or MySQL Workbench (Share screenshot)



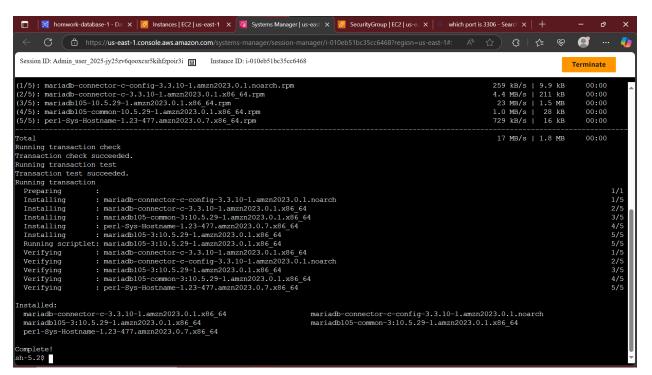
EC2 instance created



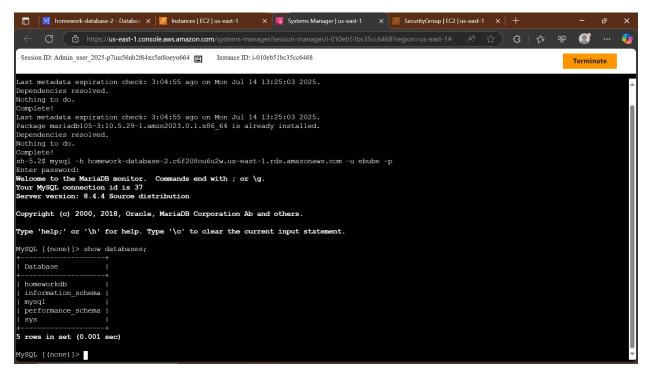
Allowing the private network of the instance to get into the database security group



Connected to my session manager



Installed mysql to the server using the command line: sudo yum update -y sudo yum install mariadb105 -y



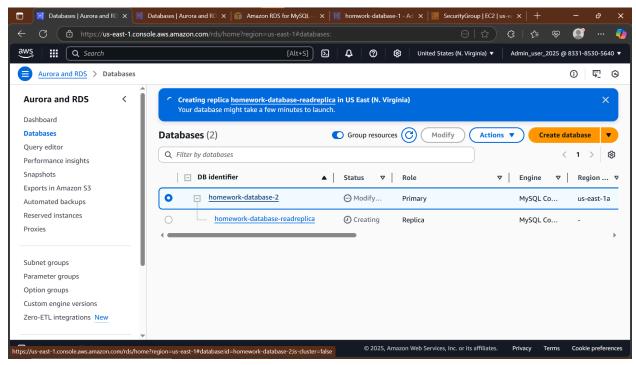
I successfully logged into the database using the command line below: mysql -h homework-database-2.c6f208ou6u2w.us-east-1.rds.amazonaws.com -u ebube -p

homework-database-2.c6f208ou6u2w.us-east-1.rds.amazonaws.com

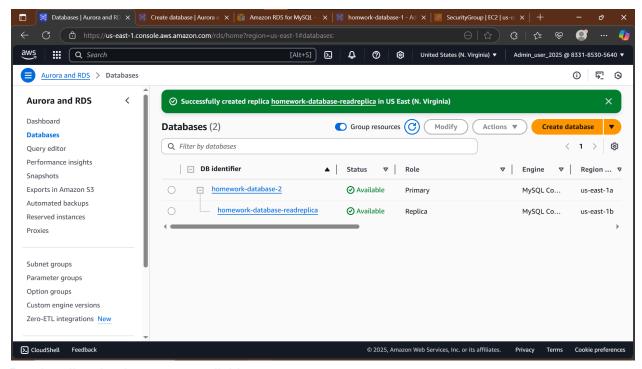
I used ebube since ebube was my database username instead of admin

Also showing the database inside with the command line: show databases;

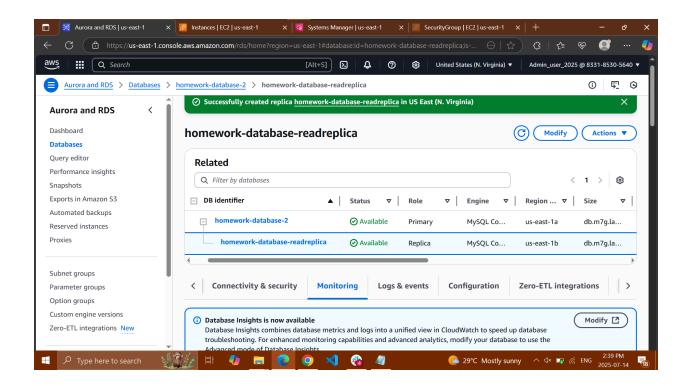
Create a read replica of your RDS DB instance



Read replica created



Read replica database now available



Create a table (using the SQL commands we used during the class. See script below) in your main DB instance and confirm that it's replicating in the Read-replica (Share screenshot)

```
EC2 > sudo dnf update -y
sudo dnf install mariadb105
mysql -h database-1.cgjrkgx47sar.us-east-1.rds.amazonaws.com -u admin -p
show databases;
use <enter_database_name>;
show tables:
CREATE TABLE student_table(
  id int NOT NULL AUTO_INCREMENT,
  name varchar(45) NOT NULL,
  cluster varchar(35) NOT NULL,
  gender varchar(45) NOT NULL,
 PRIMARY KEY (id)
);
insert into student_table(id,name,cluster,gender) VALUES
(1, 'Francoise', 'Fox', 'Female'), (2, 'Sara', 'Fox', 'Female'),
(3, 'Danielle', 'Fox', 'Female'), (4, 'Safa', 'Fox', 'Female'),
(5, 'Bi', 'Fox', 'Male'), (6, 'Soho', 'Fox', 'Male'), (7, 'Patrick', 'Fox', 'Male'),
(8, 'Abdulaziz', 'Fox', 'Male'), (9, 'Andre', 'Cheetah', 'Male'),
(10, 'Achille', 'Cheetah', 'Male'), (46, 'Moise', 'Cheetah', 'Male'),
(11, 'Kady', 'Cheetah', 'Female'), (12, 'Kady', 'Cheetah', 'Female'),
(13, 'Abdoulaye', 'Jaguar', 'Male'), (14, 'Odilon', 'Jaguar', 'Male'),
(15, 'Narcisse', 'Jaguar', 'Male'), (16, 'Emma', 'Jaguar', 'Male'),
(17, 'Nasser', 'Jaguar', 'Male'), (18, 'Martial', 'Jaguar', 'Male'),
(19, 'Epee', 'Jaguar', 'Male'), (20, 'Alain', 'Leopard', 'Male'),
```

```
(21,'Guy','Leopard','Male'), (22,'Daniel','Leopard','Male'),
(23,'Soke','Leopard','Male'), (24,'Oumou','Leopard','Female'),
(25,'Franck','Lion','Male'), (26,'Marwan','Lion','Male'),
(27,'Rayyan','Lion','Male'), (28,'Armand','Lion','Male'),
(29,'Sylvanus','Lion','Male'), (30,'King','Panther','Male'),
(31,'Nelie','Panther','Female'), (32,'Vanessa','Panther','Female'),
(33,'Akim','Puma','Male'), (34,'Vanel','Puma','Male'),
(35,'Eric','Puma','Male'), (36,'Gaitan','Puma','Male'),
(37,'Bilal','Tiger','Male'), (38,'Fabrice','Tiger','Male'),
(39,'Taibou','Tiger','Female'), (40,'Bouba','Wolf','Male'),
(41,'Anicet','Wolf','Male'), (42,'Fredy','Wolf','Male'),
(43,'Yonis','Wolf','Male'), (44,'Rosaria','Wolf','Female'),
(45,'Estelle','Wolf','Female');
```

Logged into the database with the command: Use homeworkdb;

```
🗈 💹 homework-database-2 - Databas 🗴 🙋 Instances | EC2 | us-east-1 💢 🐼 Systems Manager | us-east-1 💢 🙋 SecurityGroup | EC2 | us-east-1 💢 🕂
       C 🗈 https://us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-010eb51bc35cc6468?region=us-east-1#: A 🕏 🗘 😢 <equation-block>
 Session ID: Admin user 2025-p7ins56nb2f64xs5nt8oeyo664 III Instance ID: i-010eb51bc35cc6468
                                                                                                                                                     Terminate
 performance_schema |
sys
5 rows in set (0.001 sec)
 MySQL [(none)]> use homeworkdb;
Database changed
MySQL [homeworkdb]> CREATE TABLE student_table(
         id int NOT NULL AUTO_INCREMENT,
         name varchar(45) NOT NULL,
         cluster varchar(35) NOT NULL,
         gender varchar(45) NOT NULL,
         PRIMARY KEY (id)
-> );
Query OK, 0 rows affected (0.046 sec)
MySQL [homeworkdb]>
MySQL [homeworkdb]> show tables;
  Tables_in_homeworkdb |
 1 row in set (0.002 sec)
MySQL [homeworkdb]>
```

Table created and a view of the table

Added data into the table using this command line:

```
INSERT INTO student_table (id, name, cluster, gender) VALUES
```

```
(1, 'Francoise', 'Fox', 'Female'),
(2, 'Sara', 'Fox', 'Female'),
(3, 'Danielle', 'Fox', 'Female'),
(4, 'Safa', 'Fox', 'Female'),
(5, 'Bi', 'Fox', 'Male'),
(6, 'Soho', 'Fox', 'Male'),
(7, 'Patrick', 'Fox', 'Male'),
(8, 'Abdulaziz', 'Fox', 'Male'),
(9, 'Andre', 'Cheetah', 'Male'),
(10, 'Achille', 'Cheetah', 'Male'),
(46, 'Moise', 'Cheetah', 'Male'),
(11, 'Kady', 'Cheetah', 'Female'),
(12, 'Kady', 'Cheetah', 'Female'),
(13, 'Abdoulaye', 'Jaguar', 'Male'),
(14, 'Odilon', 'Jaguar', 'Male'),
(15, 'Narcisse', 'Jaguar', 'Male'),
(16, 'Emma', 'Jaguar', 'Male'),
(17, 'Nasser', 'Jaguar', 'Male'),
(18, 'Martial', 'Jaguar', 'Male'),
(19, 'Epee', 'Jaguar', 'Male'),
(20, 'Alain', 'Leopard', 'Male'),
(21, 'Guy', 'Leopard', 'Male'),
(22, 'Daniel', 'Leopard', 'Male'),
(23, 'Soke', 'Leopard', 'Male'),
(24, 'Oumou', 'Leopard', 'Female'),
(25, 'Franck', 'Lion', 'Male'),
(26, 'Marwan', 'Lion', 'Male'),
(27, 'Rayyan', 'Lion', 'Male'),
(28, 'Armand', 'Lion', 'Male'),
(29, 'Sylvanus', 'Lion', 'Male'),
(30, 'King', 'Panther', 'Male'),
(31, 'Nelie', 'Panther', 'Female'),
(32, 'Vanessa', 'Panther', 'Female'),
(33, 'Akim', 'Puma', 'Male'),
(34, 'Vanel', 'Puma', 'Male'),
(35, 'Eric', 'Puma', 'Male'),
(36, 'Gaitan', 'Puma', 'Male'),
(37, 'Bilal', 'Tiger', 'Male'),
(38, 'Fabrice', 'Tiger', 'Male'),
(39, 'Taibou', 'Tiger', 'Female'),
(40, 'Bouba', 'Wolf', 'Male'),
(41, 'Anicet', 'Wolf', 'Male'),
(42, 'Fredy', 'Wolf', 'Male'),
```

```
(43, 'Yonis', 'Wolf', 'Male'),
(44, 'Rosaria', 'Wolf', 'Female'),
(45, 'Estelle', 'Wolf', 'Female');
```

```
🛅 🔯 homework-database-readreplica 🗴 🧭 Instances | EC2 | us-east-1 💢 👸 Systems Manager | us-east-1 💢 💹 SecurityGroup | EC2 | us-east-1 💢 | 🕂
                         Session ID: Admin_user_2025-p7ins56nb2f64xs5nt8oeyo664
MySQL [homeworkdb]> show student_table;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'student table' at line 1

MySQL [homeworkdb]> SELECT * FROM student_name;

ERROR 1146 (42802): Table 'homeworkdb.student_name' doesn't exist

MySQL [homeworkdb]> SELECT * FROM student_table;
     id | name | cluster | gender |
          1 | Francoise | Fox
           | Female
                                                                                                | Female
| Male
                                                                | Fox
                        Soho | Fox
Patrick | Fox
                                                                                                          | Male
| Male
                  | Patrick Fox | Male | Abdulaziz | Fox | Male | Andre | Cheetah | Male | Achille | Cheetah | Male | Kady | Cheetah | Female | Kady | Cheetah | Female | Abdoulaye | Jaguar | Male | Abdoulaye | Jaguar | Abdoulaye | Jaguar | Abdoulaye | Abdoulaye | Jaguar | Abdoulaye | Abdoulaye | Jaguar | Abdoulaye | Abdoulaye | Abdoulaye | Jaguar | Abdoulaye | Abdou
                   | Odilon | Jaguar
| Narcisse | Jaguar
                                                                                                        | Male
| Male
                        Emma
Nasser
                                                                                                          | Male
| Male
                                                                  | Jaguar
                        Martial
Epee
                                                                                                          | Male
| Male
                                                                  | Jaguar
                  | Alain
| Guy
| Daniel
| Soke
                                                                        Leopard | Male
Leopard | Male
                                                                         Leopard | Male
Leopard | Male
```

Viewing items in the table with the command line:

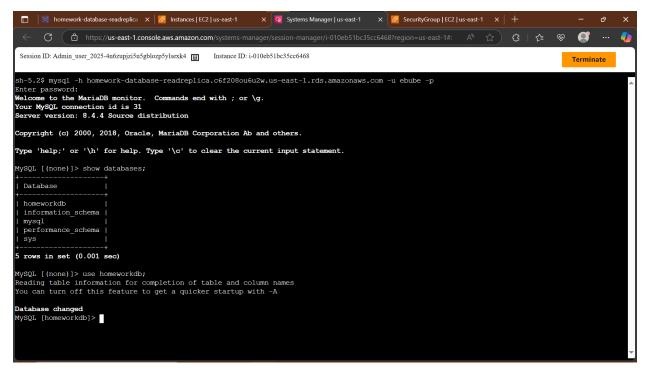
```
mysql -h
homework-database-readreplica.c6f208ou6u2w.us-east-1.rds.amazonaws.com -u
ebube -p
```

Checking for the replicated database

homework-database-readreplica.c6f208ou6u2w.us-east-1.rds.amazonaws.com

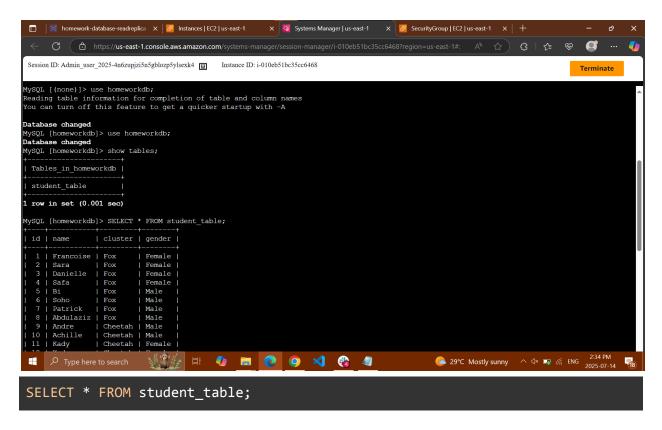
mysql -h homework-database-readreplica.c6f208ou6u2w.us-east-1.rds.amazonaws.com -u ebube -p

mysql -h homework-database-readreplica.c6f208ou6u2w.us-east-1.rds.amazonaws.com -u ebube -p



Logged into the replica using the command:

 $mysql-h\ homework-database-readreplica.c6f208ou6u2w.us-east-1.rds.amazonaws.com-u\ ebube-p$



Same content with the original