Create an rds connection with ec2 instance and use it to create an sql database and a sample table.

Firstly we have to create a database in RDS.

For doing this:

1. Open the Amazon RDS. Choose Databases.
2. Click on Create Database.
3. Choose the Engine type. Here I am using **MySQL**.
4. Choose the DB instance size(Free tier).
5. Give the DB instance identifier which is the name of the Creating database.
6. For the password purpose, you can either choose the auto generated password or you can use the custom password.
   Here I preferred custom password and I gave it and confirmed.
7. Review the setting and configuration and click on create database.
8. Finally Click on create database.

Now Launch the Ec2 instance.

For doing this:

1. Open Amazon EC2 and Click on launch instance.
2. Give the instance name
   Here I gave the name as **rds connect**.
3. Choose the AMI.
   Here I am choosed choosing the **Amazon Linux 2 AMI(HVM)- Free tier**.
4. Choose the instance type. And choose the existing key pair or create a new key pair.
5. Edit the network settings.
   Make sure that both the database and the instance must be in the same VPC.
   Also make sure that the subnet regions of both are same, or else charges may be applied.
   Enable the auto-assign public IP.
   Edit the other inbound rules and other configurations.
6. Now launch the instance.

Now connect the database with EC2 instance.

For doing this:

1. Now go to connectivity and security in the created database.
   There copy the end point & port. Scroll down and go to Connected compute resources.
2. Select “set up EC2 connection”. There selected the EC2 instance that we have created and click on continue.
3. Review and confirm the connection.
   Now we have successfully connected our database with EC2 instance.
4. Now connect to the EC2 instance via ssh.
5. Now run the command **sudo su** to move to root user.
6. Now run the following commands:
   yum update -y to update
   yum install mariadb to install MySQL command line .
7. From the end point and the port number that we have previously copied
   mysql -h endpoint -P 3306 admin -p
8. Now we got connected to the MySQL database.
9. Run the sql command and perform the operations.

Now Perform SQL operations :

- Create a sample database using the command:
  CREATE DATABASE <databasename>;

my database name is kittu. So

CREATE DATABASE kittu;

- Change the directory to database created using the command:
  USE <databasename>;

  USE kittu;
- Now create a table with below syntax as example:

  CREATE TABLE kittutable (
  Id INT NOT NULL AUTO_INCREMENT,
  name VARCHAR(20) NOT NULL
  PRIMARY KEY(id)
  );

- Now , insert data values into table rows.
  INSERT INTO kittutable (name) VALUES ('Aakash');
  INSERT INTO kittutable (name) VALUES ('Vaishu');

- Now display the table with
  SELECT * from kittutable;