**3.Create an RDS connection with EC2 instance and use it to create an SQL database and a sample table.**

Amazon Relational Database Service (RDS) is a managed SQL database service provided by Amazon Web Services (AWS). Amazon RDS supports an array of database engines to store and organize data. It also helps with [relational database](https://www.techtarget.com/searchdatamanagement/definition/relational-database) management tasks, such as data migration, backup, recovery and patching.

Amazon RDS facilitates the deployment and maintenance of relational databases in the cloud. A cloud administrator uses Amazon RDS to set up, operate, manage and scale a relational instance of a [cloud database](https://www.techtarget.com/searchcloudcomputing/definition/cloud-database). Amazon RDS is not itself a database; it is a service used to manage relational databases.

**CREATE DATABASE:**

Step 1: Sign in to the AWS Management Console and open the Amazon RDS console

Step 2: In the upper-right corner of the Amazon RDS console, choose the AWS Region in which you want to create the DB instance.

Step 3: In the navigation pane, choose **Databases**.

Step 4: Choose **Create database** and make sure that **Easy create** is chosen.

Step 5: In **Configuration**, choose **MySQL**.

Step 6: For **DB instance size**, choose **Free tier**.

Step 7: For **DB instance identifier**, enter **database-1**

step 8: For **Master username**, enter a name for the master user, or keep the default name.

step 9: To use an automatically generated master password for the DB instance, select **Auto generate a password**.

To enter your master password, make sure **Auto generate a password** is cleared, and then enter the same password in **Master password** and **Confirm password**

Step 10: Choose **Create database**.

**Launch the instance using same vpc :**

Step 1: Select a region

Step 2: Navigate to the Ec2 Console

Step 3: Create the Ec2 Instance

Step 4: Choose the instance type

Step 5: create or select key pair

Step 6: create a security group

Step 7: configure storage

Step 8: launch instance

Navigate into Database, in action tabs click on set up Ec2 Connection

And select the instance

Connect the instance in command prompt using SSH client command and paste it in command prompt

Update the local repository index of Yum. Execute the following command to update the local repository index of yum package installer.

**$ sudo yum update.**

Install the MariaDB database management system on linux based operating system that uses the YUM package manager

**$ sudo yum install mariadb**

Connect to a MySQL or MariaDB database server running on a remote host

**$mysql -h <rds-endpoint> -P <portnumber> -u <username> -p**

then enter the password we created

Now use the database and create a table

Example:

**CREATE TABLE details(**

**id INT,**

**name VARCHAR(50),**

**age INT**

**);**

Display the tables using the following command

**>SHOW TABLES;**

Insert data in table using the following command

**INSERT INTO details (name) values (‘rosy’);**

Display the data in tables using below command

**SELECT \* FROM <tablename>**