**2Q)Create an rds connection with ec2 instance and use it to create an sql database and a sample table.**

**THEORY:**

Amazon RDS is nothing but a relational database management system along with the facilities of the AWS cloud platform. It facilitates us in creating database instances as per our requirements, i.e. resizable, variety of database type, etc. AWS mainly have 5 types of Databases.They are:

* MariaDB
* Microsoft SQL Server
* PostgreSQL
* MySQL
* Oracle

**STEPS:**

1. Open AWS management console and search for RDS.

2. Now click on create database and choose the Easy create (Method of creation).

3. Select the type of sql database. Here in this question we have selected Mysql.

4. Give the name for admin, create a password and also confirm the password.

5. Now create the EC2 instance in the same region i.e, where the rds is created.

6. Again go to rds and connect the EC2 by selecting set up and EC2 connection in connectivity and security.

7. Set up the EC2 connection and update it.

**$sudo yum update -y**

8. Now install mariadb and connect it by using the below commands;

**$ yum install mariadb**

**$ Mysql –h databasename location –P 3306 –u admin –p**

9. For connecting we need to give the password the it will be successfully connected.

10. Now create the database and use it.

**create database database\_name;**

**use database\_name;**

11. Create the table using

**Create table table\_name(data);**

12. Now insert the details into the table using the below commands.

**Insert into table\_name(data) values (details);**

13. show or print the complete table.

**Select \* from table\_name;**

***STEPS FOR CREATING EC2 INSTANCE:***

1. Click on Launch instance and then select create instance.

2. Give the name of the instance and select the OS image along with instance type.

3. Create the new key pair or if the key pair exists then select that keypair.

4. Now edit the network settings. Select the required VPC and subnets also enable auto assign ip.

5. Edit the security groups and click launch instance. Now the instance gets successfully launched.

6. Select the created instance and click actions and select Monitor and troubleshoot, manage detailed monitoring.

7. Now enable the detailed monitoring and confirm it.

8. Connect the instance & copy, paste the ssh command in the local machine.