

Experiment No - 07

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Roll No. 67

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AIM:

Demonstrate the creation of Relational Database services in public cloud based.

Step 1: Set Up Security Group

By default, Amazon RDS restricts access to your database instances. To connect to your instance from MySQL Workbench, you need to set up a security group that allows incoming traffic on the MySQL port (3306) from your local IP address. Open the Amazon RDS console and select your database instance. In the "Details" tab, find the "Security and Network" section and click on the security group associated with your instance. Click on the "Inbound Rules" tab and then click on the "Edit Rules" button. Add a new rule by clicking on the "Add Rule" button and select "MySQL/Aurora" as the type. In the "Source" field, select "My IP" to allow incoming traffic from your local machine. You can also select "Custom" and enter your IP address manually. Click on the "Save Rules" button to apply the changes.

Step 2: Retrieve Endpoint and Credentials

To connect to your database instance from MySQL Workbench, you need to retrieve the endpoint and credentials from the Amazon RDS console. Open the Amazon RDS console and select your database instance. In the "Details" tab, find the "Connectivity & Security" section and click on the "Endpoint" to retrieve the endpoint of your instance. Click on the "Configuration" tab and find the "Endpoint & Port" section to verify the port number (3306 by default). Click on the "Master user name" to retrieve the username and click on the "Show" button to reveal the password.

Step 3: Connect to Amazon RDS from MySQL Workbench

Now that you have the endpoint and credentials, you can connect to your Amazon RDS instance from MySQL Workbench. Open MySQL Workbench and click on the "New Connection" button in the "Home" tab. In the "Setup New Connection" dialog box, enter a connection name for your instance. In the "Connection Method" field, select "Standard (TCP/IP)". In the "Hostname" field, enter the endpoint of your instance. In the "Port" field, enter the port number (3306 by default). In the "Username" field, enter the master username retrieved from the Amazon RDS console. In the "Password" field, enter the password retrieved from the Amazon RDS console. Click on the "Test Connection" button to verify the connection. If the

connection is successful, click on the "OK" button to save the connection.

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Creating a Standard database of mysql called as ccexp06

[RDS](#) > Create database

Create database


Choose a database creation method [Info](#)


☐ **Standard create**
You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☒ **Easy create**
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Configuration

Engine type [Info](#)

☐ **Aurora (MySQL Compatible)**


☐ **Aurora (PostgreSQL Compatible)**


☒ **MySQL**


☐ **MariaDB**

☐ **PostgreSQL**

☐ **Oracle**

Databases (1) ☒ Group resources [Refresh](#) [Modify](#) [Actions](#) [Restore from S3](#) [Create database](#)

☐ **DB identifier** ▲

Status ▼

Role ▼

Engine ▼

Region & AZ ▼

Size ▼

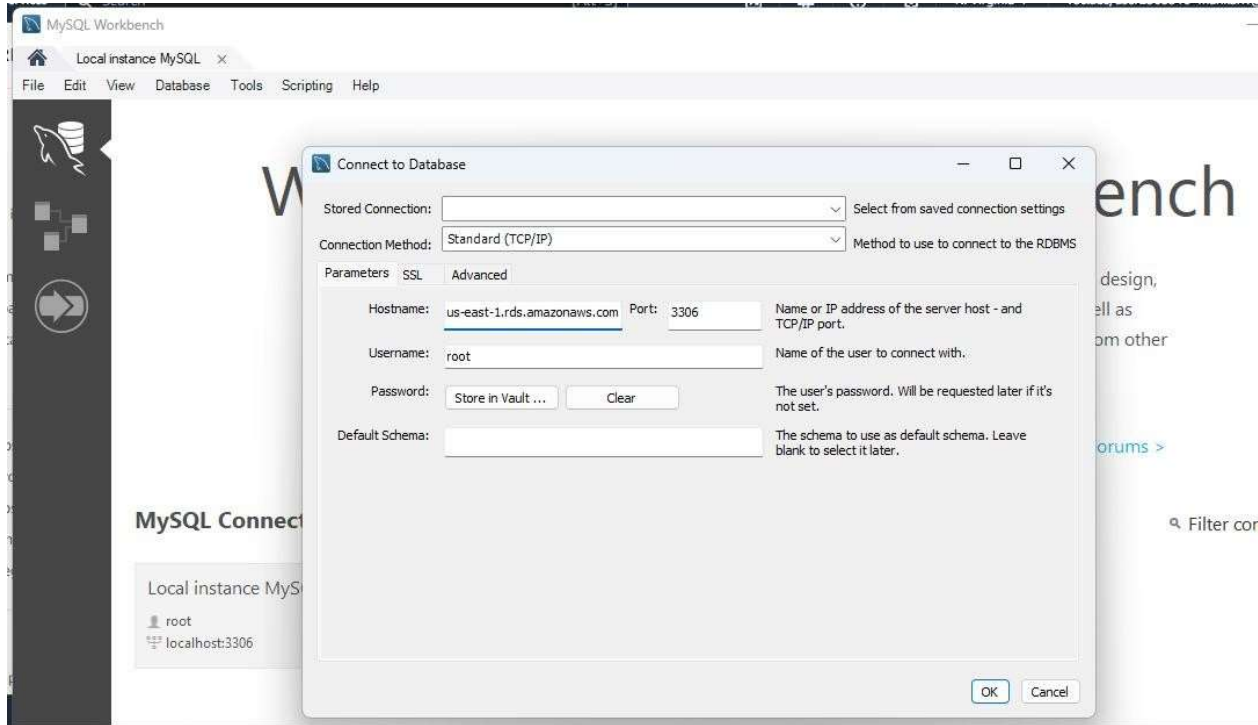
Actions ▼

CPU ▼

Current activity ▼

<input type="radio"/>	ccexp06	Creating	Instance	MySQL Community	-	db.t3.micro	-	-	
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Using the endpoint of created database with user called as admin we connect to the database through mysql



Editing inbound rules of security groups and allowing mysql

[EC2](#) > [Security Groups](#) > [sg-0785b6b791c679582 - default](#) > Edit inbound rules

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sg-0b6db04dbe12dceb5	All traffic	All	All	Custom	<input type="text"/>	<input type="button" value="Delete"/>
	Custom TCP	TCP	0	Custom	<input type="text"/>	<input type="button" value="Delete"/>

Security Groups (1/7) Info

Filter security groups

< 1 >

Name

Security group ID

Security group name

VPC ID

Description

Owner

sg-0f9d52a47a09a46b2

launch-wizard-5

vpc-06631a461990f2f65

launch-wizard-5 create...

812832219525

sg-035fdf7e2391c83fd

launch-wizard-2

vpc-0ce675efaca37de27

launch-wizard-2 create...

812832219525

☒

sg-0785b6b791c679582

default

vpc-0ce675efaca37de27

default VPC security gr...

812832219525

sg-038a22553abb5eba4

launch-wizard-1

vpc-0ce675efaca37de27

launch-wizard-1 create...

812832219525

sg-05e2e1460edbcf3dd

launch-wizard-3

vpc-0ce675efaca37de27

launch-wizard-3 create...

812832219525

sg-05d892c85c3be895d

default

vpc-06631a461990f2f65

default VPC security gr...

812832219525

sg-08f42e285ca1bd97e

launch-wizard-4

vpc-06631a461990f2f65

launch-wizard-4 create...

812832219525

Inbound rules (2)

Filter security group rules

< 1 >

Name

Security group rule...

IP version

Type

Protocol

Port range

sg-0e3e9c8e36f1b0756

IPv4

MYSQL/Aurora

TCP

3306

sg-0b6db04dbe12dce...

-

All traffic

All

All

EC2 > Security Groups > sg-0785b6b791c679582 - default > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID

Type Info

Protocol Info

Port range Info

Source Info

Description - optional Info

sg-0e3e9c8e36f1b0756

MYSQL/Aurora

TCP

3306

Custom

Q

117.254.209.20/32

X

Delete

sg-0b6db04dbe12dceb5

All traffic

All

All

Custom

Q

sg-0785b6b791c679582

X

Delete

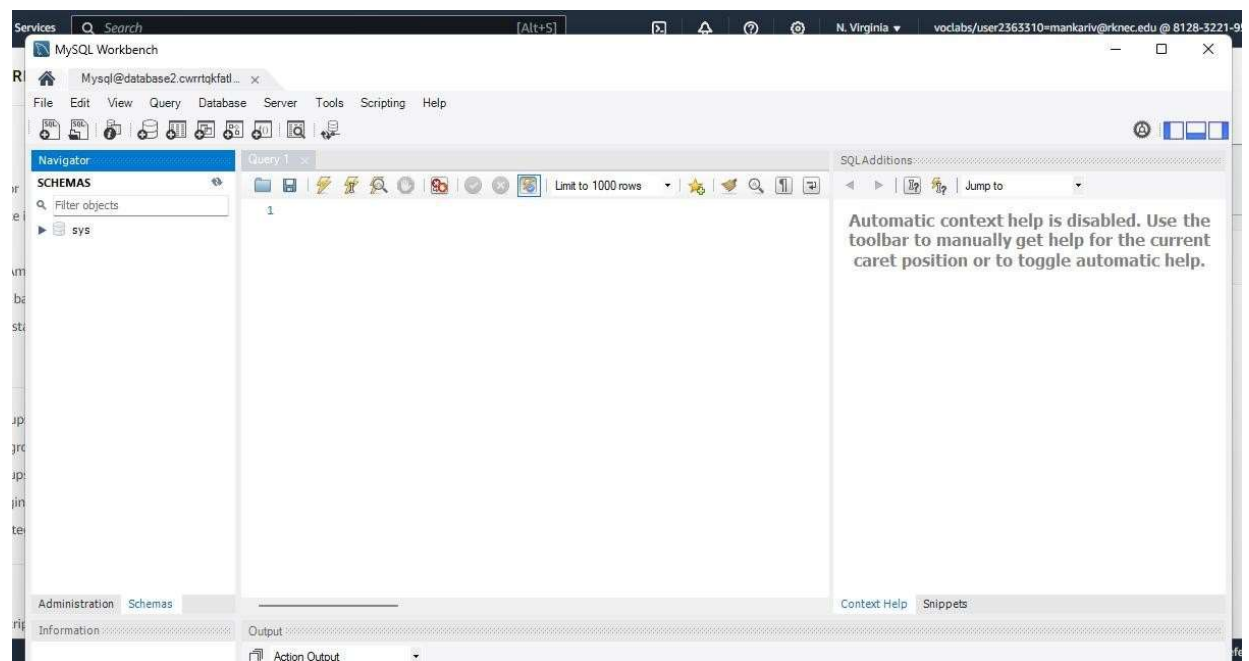
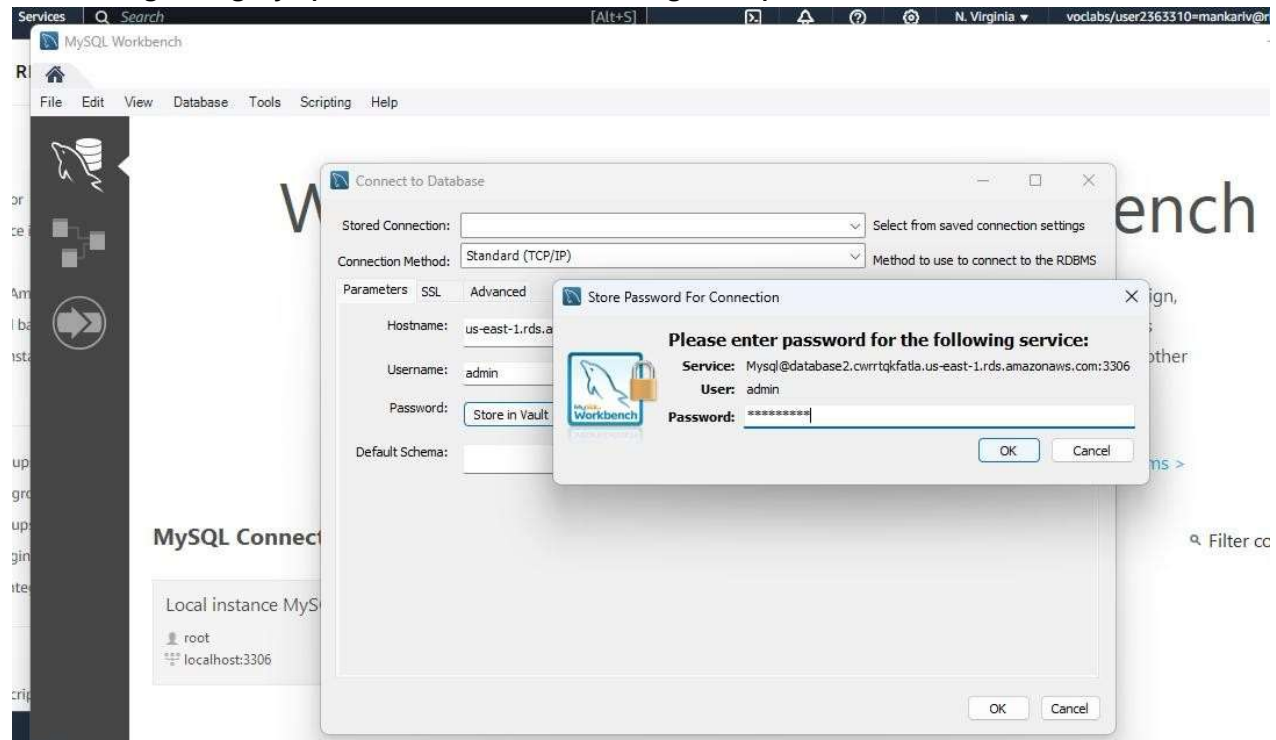
Add rule

Cancel

Preview changes

Save rules

Connecting using mysql workbench and executing the queries



MySQL Workbench

mysql@database2.cwrtoqfatl... x

File Edit View Query Database Server Tools Scripting Help

Navigator: exp06 - Schema

SCHEMAS

Filter objects

exp06

Tables

Views

Stored Procedures

Functions

sys

Query 1 x exp06 - Schema

Limit to 1000 rows

```
1 create table isha(  
2   name varchar(50),  
3   city varchar(20));  
4 insert into isha values("isha","ngp");  
5 select * from isha;
```

Result Grid

name	city
isha	ngp

isha 2 x

Read Only Context Help Snippets

Administration Schemas

Information

Schema: exp06

Object Info Session

Output

#	Time	Action	Message	Duration / Fetch
2	13:43:53	create table isha(name varchar(50), city varchar(20))	0 row(s) affected	0.328 sec
3	13:43:56	create table isha(name varchar(50), city varchar(20))	Error Code: 1050. Table 'isha' already exists	0.266 sec
4	13:44:43	insert into table isha("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.265 sec
5	13:44:49	insert into table isha("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.266 sec
6	13:45:50	insert into isha("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.266 sec
7	13:46:12	insert into table isha("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.265 sec
8	13:46:26	insert into table isha ("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.266 sec
9	13:47:43	insert into table isha values("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.265 sec
10	13:47:55	insert into table isha values("isha","ngp")	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.266 sec

