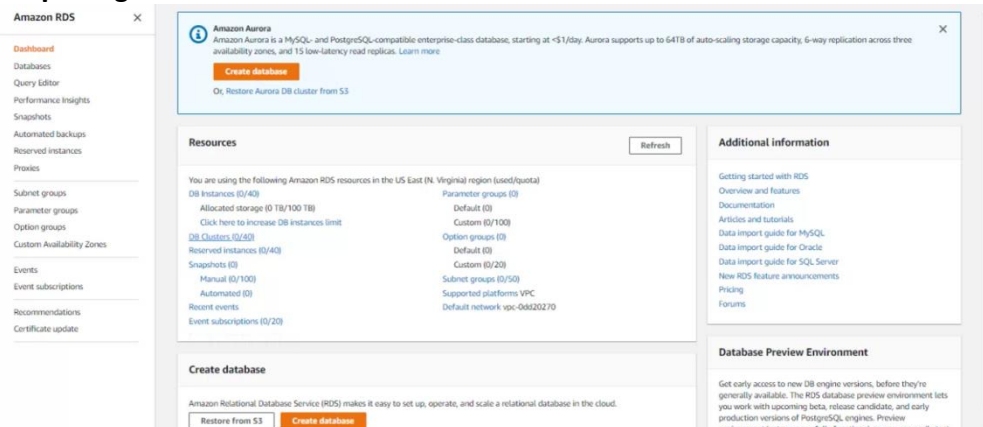


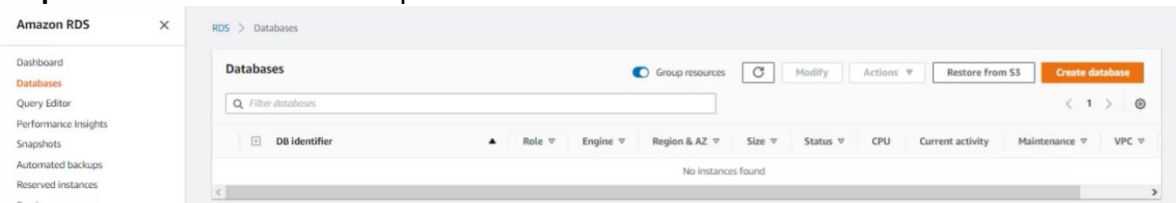
Lab5

Create RDS Server and connect using MySQL Workbench.

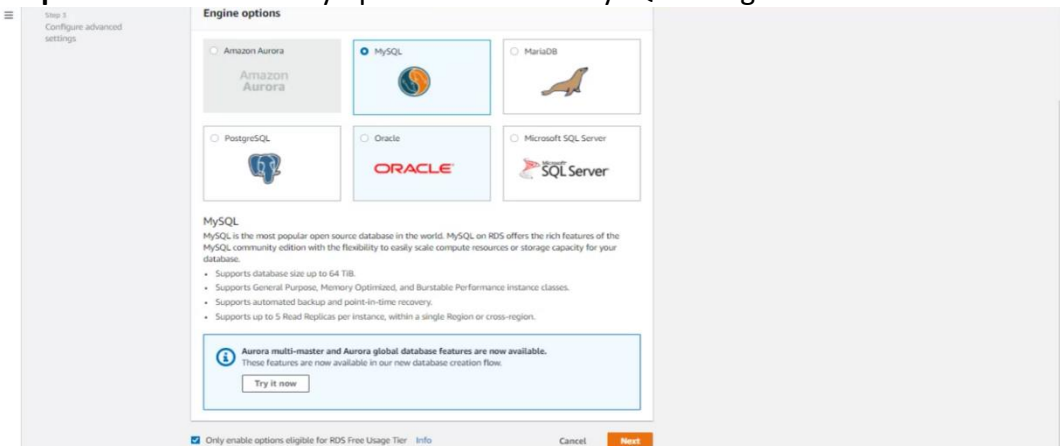
Step1:Log in to the AWS Console and select RDs.



Step2:select create database option.



Step3:select free tier only option and select MySQL as Engine.



Step4: In next step Specify the DB details.

(Minimum: 20 GiB, Maximum: 20 GiB) higher allocated storage **may improve** IOPS performance.

Storage autoscaling

Provides dynamic scaling support for your database's storage based on your application's needs. [Info](#)

☒ **Enable storage autoscaling**
Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

Maximum storage threshold [Info](#)
Charges will apply when your database autoscales to the specified threshold

1000 GiB
(Minimum: 21 GiB, Maximum: 15384 GiB)

Settings

DB instance identifier [Info](#)
Specify a name that is unique for all DB instances owned by your AWS account in the current region.

Lab5

DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Must contain from 1 to 63 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.

Master username [Info](#)
Specify an alphanumeric string that defines the login ID for the master user:

user1

Master Username must start with a letter. Must contain 1 to 16 alphanumeric characters.

Master password [Info](#) **Confirm password** [Info](#)

Master Password must be at least eight characters long, as in "mypassw0rd". Can be any printable ASCII character except "(", ")", " ", or "g".

Cancel Previous **Next**

Step 5: Configure advanced settings for DB. Make Public accessibility as yes.

Amazon RDS

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Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies

Subnet groups
Parameter groups
Option groups
Custom Availability Zones

Events
Event subscriptions

Recommendations
Certificate update

Step 4: Specify DB details

Step 5: Configure advanced settings

Network & Security

Virtual Private Cloud (VPC) [Info](#)
VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-odd20270)

Only VPCs with a corresponding DB subnet group are listed.

Subnet group [Info](#)
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default

Public accessibility [Info](#)

☒ **Yes**
EC2 instances and devices outside of the VPC hosting the DB instance will connect to the DB instance. You must also select one or more VPC security groups that specify which EC2 instances and devices can connect to the DB instance.

☐ **No**
DB instance will not have a public IP address assigned. No EC2 instance or devices outside of the VPC will be able to connect.

Availability zone [Info](#)

No preference

VPC security groups
Security groups have rules authorizing connections from all the EC2 instances and devices that need to access the DB instance.

☒ **Create new VPC security group**

☐ Choose existing VPC security groups

Database options

Database name [Info](#)

dbname

Note: If no database name is specified then no initial MySQL database will be created on the DB instance.

Step 6: Give the Database name and click on create database option.

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☐ Choose existing VPC security groups

Database options

Database name [Info](#)

cc

Note: If no database name is specified then no initial MySQL database will be created on the DB instance.

Port [Info](#)
TCP/IP port the DB instance will use for application connections.

3306

DB parameter group [Info](#)

default.mysql8.0

Option group [Info](#)

defaultmysql-8-0

IAM DB authentication [Info](#)

☐ Enable IAM DB authentication
Manage your database user credentials through AWS IAM users and roles.

☒ **Disable**

Encryption

Encryption

☒ **Enable encryption** [Learn more](#)
Select to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the Key Management Service (KMS) console.

☐ Disable encryption

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Ensure that General, Slow Query, and Audit Logs are turned on. Error logs are enabled by default.
[Learn more](#)

Maintenance

Auto minor version upgrade [Info](#)

☒ Enable auto minor version upgrade
Enables automatic upgrades to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the DB instance.

☐ Disable auto minor version upgrade

Maintenance window [Info](#)
Select the period in which you want pending modifications or patches applied to the DB instance by Amazon RDS.

☐ Select window

☒ No preference

Deletion protection

☒ Enable deletion protection
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

Cancel Previous **Create database**

Step7:Copy the endpoint from the connectivity and security tab from db.

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RDS > Databases > lab5

lab5

Modify Actions

Summary

DB identifier lab5	CPU 2.50%	Status Available	Class db.t2.micro
Role Instance	Current activity 0 Connections	Engine MySQL Community	Region & AZ us-east-1d

Connectivity & security Monitoring Logs & events Configuration Maintenance & backups Tags

Connectivity & security

Endpoint & port Endpoint lab5.cu0wckrt9sh1j.us-east-1.rds.amazonaws.com Port 3306	Networking Availability zone us-east-1d VPC vpc-0dd202270 Subnet group	Security VPC security groups rds-launch-wizard (sg-00c4644d661411b7) (active) Public accessibility Yes
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Step8:Enter the DB credentials in the Setup New Connection panel of MySQL workbench.

MySQL Workbench

File Edit View Database Tools Scripting Help

MySQL Co

Filter connections

Setup New Connection

Connection Name: demo Type a name for the connection

Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS

Parameters SSL Advanced

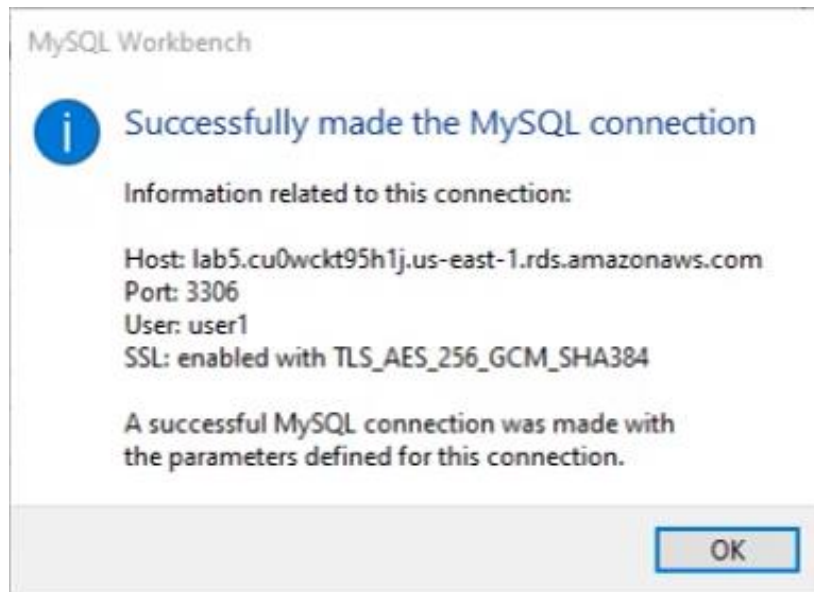
Hostname: vckrt9sh1j.us-east-1.rds.amazonaws.com Port: 3306 Name or IP address of the server host - and TCP/IP port.

Username: user1 Name of the user to connect with.

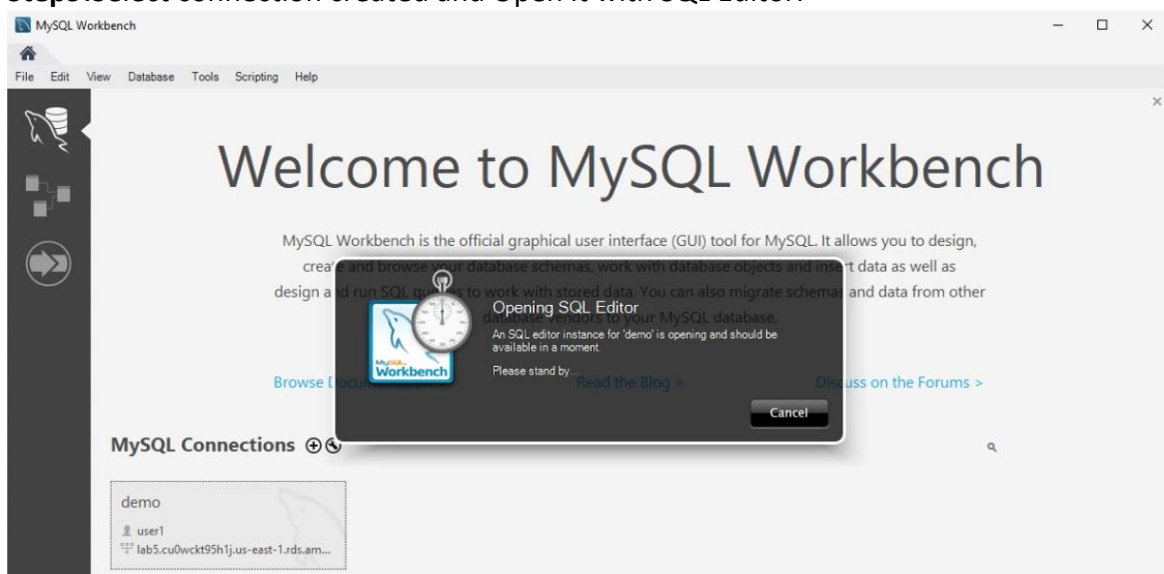
Password: Store in Vault ... Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

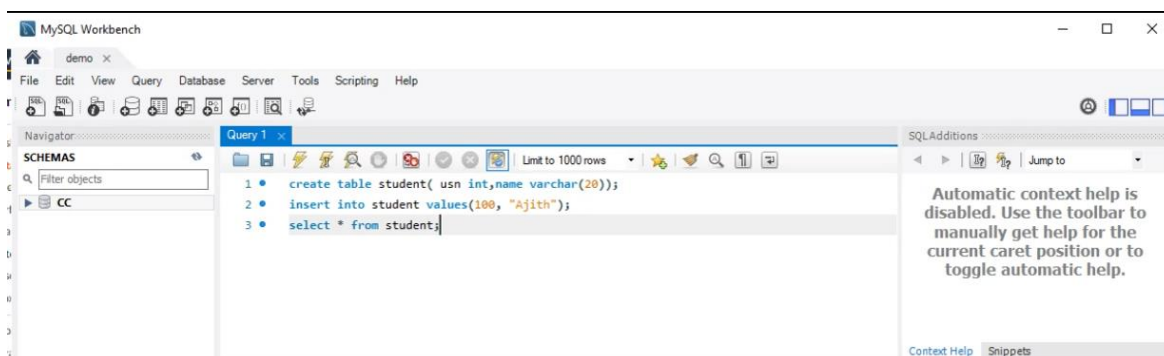
Configure Server Management... Test Connection Cancel **OK**



Step9:Select connection created and Open it with SQL Editor.



Step10:create the table and populate the data.



Step11:Once the data is populated we can see the data inserted.

