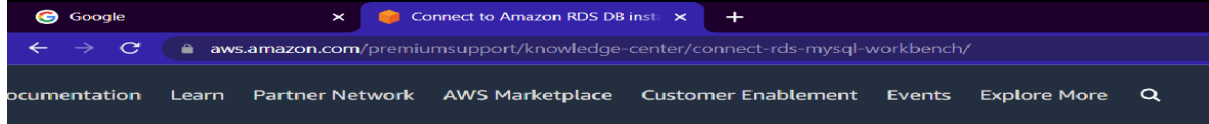


(RELATIONAL DATABASE SERVICES (RDS))

RDS CONFIGURE

Download workbench MySQL




How do I connect to my Amazon RDS DB instance that's running MySQL using MySQL Workbench?

Last updated: 2020-12-08

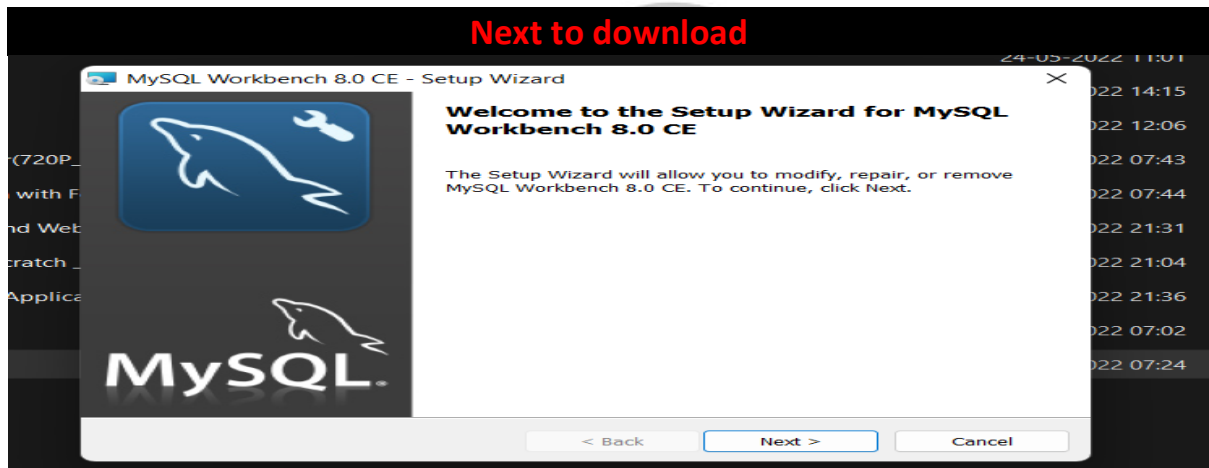
How do I connect to my Amazon Relational Database Service (Amazon RDS) DB instance that's running MySQL by using MySQL Workbench?

Resolution

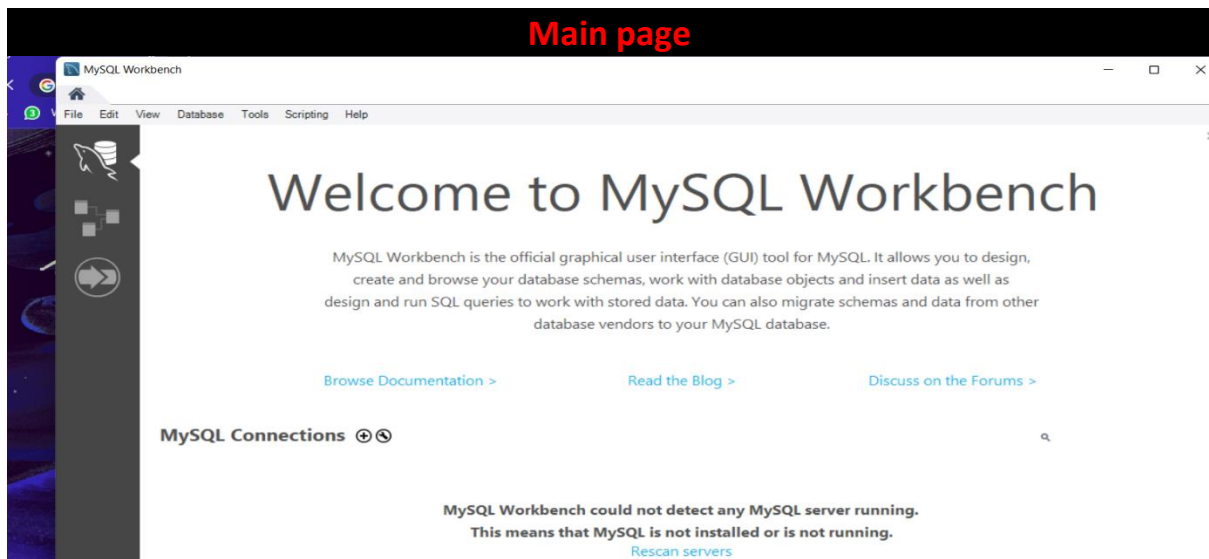
Follow the steps below to connect MySQL Workbench to your Amazon RDS DB instance:

1. Download and install [MySQL Workbench](#).
2. Open MySQL Workbench, and choose the  sign beside MySQL Connections to set up a new connection.
3. In the **Setup New Connection** dialog box, enter a suitable name for your connection.

Next to download

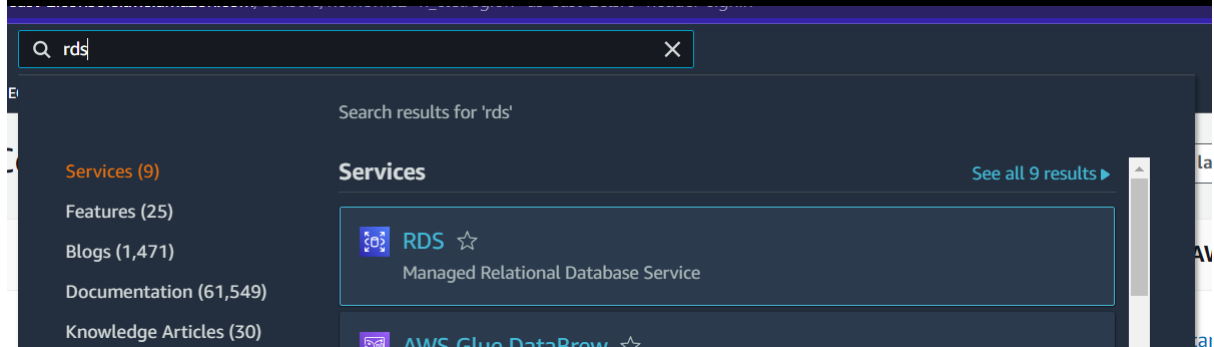


Main page

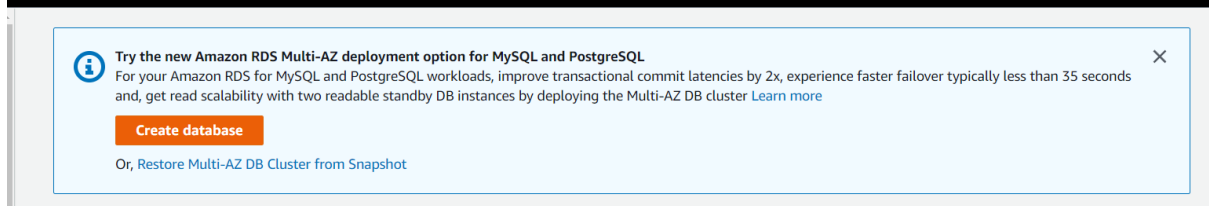


(RELATIONAL DATABASE SERVICES (RDS))

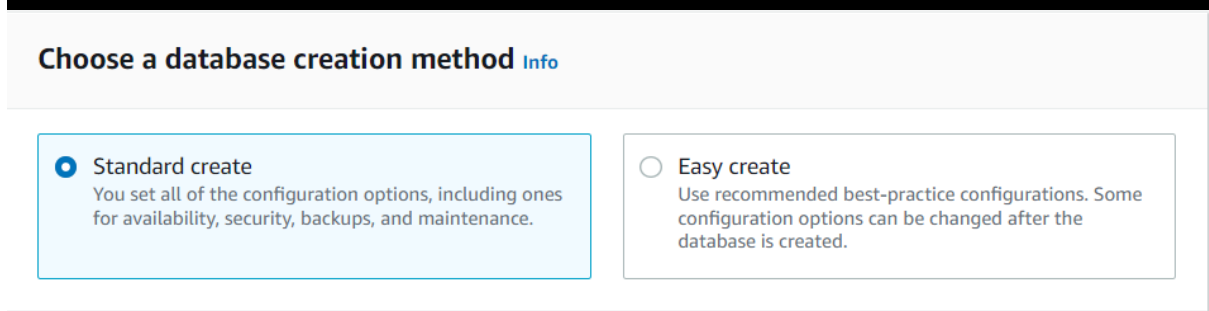
Search RDS



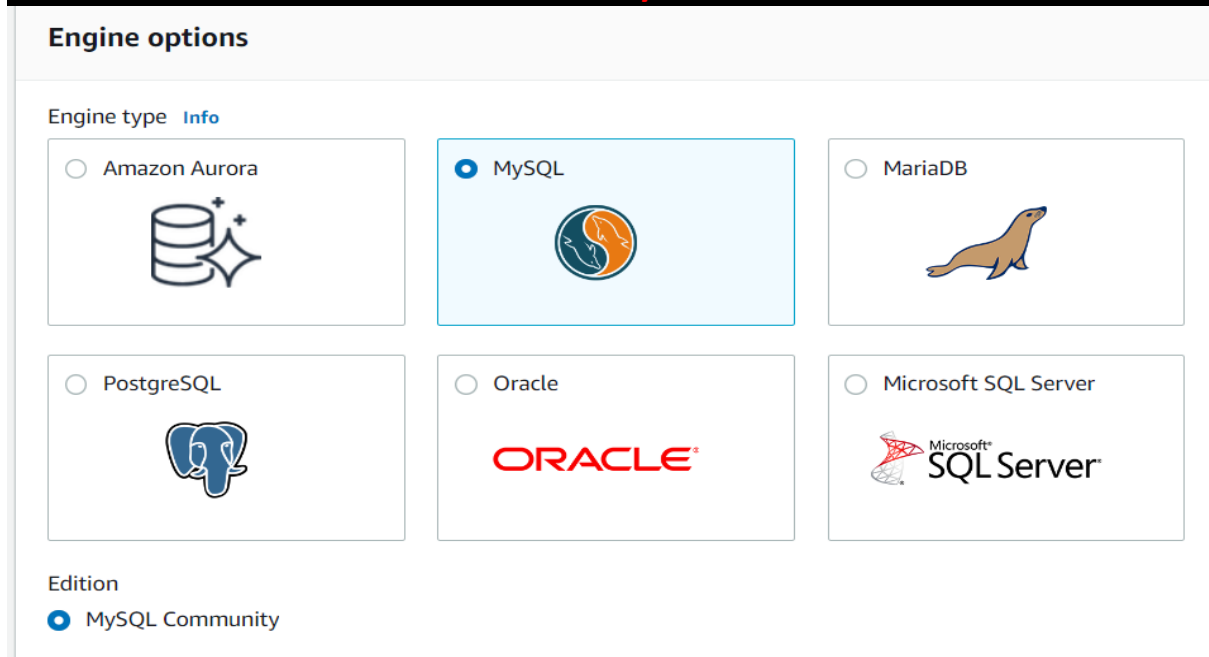
Click to create database



Select standard



Select MySQL



(RELATIONAL DATABASE SERVICES (RDS))

Select version

Version

MySQL 8.0.28

MySQL 8.0.13

MySQL 8.0.15

MySQL 8.0.16

MySQL 8.0.17

If you HA & FAILOVER select production

Templates

Choose a sample template to meet your use case.



Production

Use defaults for high availability and fast, consistent performance.



Dev/Test

This instance is intended for development use outside of a production environment.



Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Select ZONE

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.



Multi-AZ DB Cluster - new

Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.



Multi-AZ DB instance

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.



Single DB instance

Creates a single DB instance with no standby DB instances.

Or

Availability & durability

Multi-AZ deployment [Info](#)



Create a standby instance (recommended for production usage)

Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.



Do not create a standby instance

(RELATIONAL DATABASE SERVICES (RDS))

Enter name

Settings

DB cluster identifier [Info](#)

Type a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Create user name & Password (Admin123)

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB cluster.

1 to 16 alphanumeric characters. First character must be a letter.

☐ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).

Confirm password [Info](#)

Instance select

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

1 vCPUs 1 GiB RAM Not EBS Optimized

- ☒ Include previous generation classes

(RELATIONAL DATABASE SERVICES (RDS))

Select storage type

Storage

Storage type [Info](#)

General Purpose SSD (gp2)



Baseline performance determined by volume size

Allocated storage

20

GiB

(Minimum: 20 GiB. Maximum: 16,384 GiB) Higher allocated storage can improve IOPS performance.

 Provisioning less than 100 GiB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Learn more](#) 

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☐ Enable storage autoscaling

Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Select VPC

Connectivity



Virtual private cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB instance.

Default VPC (vpc-0c930c8f6492bbf6c)

Only VPCs with a corresponding DB subnet group are listed.

 After a database is created, you can't change its VPC.

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 access always no but testing purpose you can select yes

Public access [Info](#)

☒ Yes

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

☐ No

RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

Select SG

VPC security group

Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

☐

Choose existing

Choose existing VPC security groups

☒

Create new

Create new VPC security group

New VPC security group name

RDSSG

(RELATIONAL DATABASE SERVICES (RDS))

Select Authentication

Database port [Info](#)

TCP/IP port that the database will use for application connections.

Database authentication

Database authentication options [Info](#)

- ☒ Password authentication
Authenticates using database passwords.
- ☐ Password and IAM database authentication
Authenticates using the database password and user credentials through AWS IAM users and roles.
- ☐ Password and Kerberos authentication
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Check configuration

Database options

Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

Option group [Info](#)

Backup

- ☐ Enable automated backups
Creates a point-in-time snapshot of your database

Monitoring

- ☒ Enable Enhanced monitoring
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

Configuration

Log exports


Select the log types to publish to Amazon CloudWatch Logs

- ☐ Audit log
- ☐ Error log
- ☐ General log
- ☐ Slow query log

IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

RDS service-linked role

 Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. [Learn more](#)

(RELATIONAL DATABASE SERVICES (RDS))

Check configuration Maintenance

Maintenance

Auto minor version upgrade [Info](#)

- ☐ **Enable auto minor version upgrade**
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

- ☒ **Choose a window**
☐ No preference

Start day

Monday ▼

Start time

00 ▼

:

00 ▼

UTC

Duration

0.5 ▼

hours

Deletion protection

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


Check bill & create

Estimated monthly costs

DB instance	12.41 USD
Multi-AZ standby instance	12.41 USD
Storage	4.60 USD
Total	29.42 USD

This billing estimate is based on on-demand usage as described in [Amazon RDS Pricing](#). Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.

Estimate your monthly costs for the DB Instance using the [AWS Simple Monthly Calculator](#).

 You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel

Create database

Successfully create

RDS > Databases

Databases

☒ Group resources



Modify

Actions ▼

Restore from S3

Create database

Q Filter by databases

< 1 >



<input type="checkbox"/>	DB identifier	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Status ▼	CPU
<input type="radio"/>	vivekdb	Instance	MySQL Community	ap-south-1b	db.t2.micro	Available	

Auto create snap

RDS > Snapshots

Snapshots

Manual

System

Shared with me

Public

Backup service

Exports in Amazon S3

Manual snapshots (1)



Actions ▼

Take snapshot

Q Filter by manual snapshots

< 1 >



<input type="checkbox"/>	Snapshot name	DB instance or cluster ▼	Snapshot creation time ▼	DB Instance cr
<input type="checkbox"/>	vivek-final-snapshot	vivek	July 04, 2022, 10:18:27 AM UTC	July 04, 2022, 5

(RELATIONAL DATABASE SERVICES (RDS))

Select db and copy endpoint

Amazon RDS console showing the 'vivekdb' database instance. The 'Endpoint & port' section is highlighted with a red box, showing the endpoint 'vivekdb.c003vi2z6ea3.ap-south-1.rds.amazonaws.com'.

Summary			
DB identifier vivekdb	CPU 6.89%	Status Available	Class db.t2.micro
Role Instance	Current activity 0 Connections	Engine MySQL Community	Region & AZ ap-south-1b

Connectivity & security

Endpoint & port	Networking	Security
Endpoint vivekdb.c003vi2z6ea3.ap-south-1.rds.amazonaws.com	Availability Zone ap-south-1b	VPC security groups dbsg (sg-025d3b62f8b11cf13)
	VPC	Active

Open workbench MySQL click (+)

MySQL Workbench interface. The 'MySQL Connections' button is highlighted with a red box. The interface shows a welcome message and a message that MySQL Workbench could not detect any MySQL server running.

Welcome to MySQL Workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

MySQL Connections (+)

MySQL Workbench could not detect any MySQL server running.
This means that MySQL is not installed or is not running.
[Rescan servers](#)

Copy here link endpoint

Setup New Connection dialog box. The 'Hostname' field is highlighted with a red box, showing the endpoint 'i2z6ea3.ap-south-1.rds.amazonaws.com'.

Connection Name: vivekdb

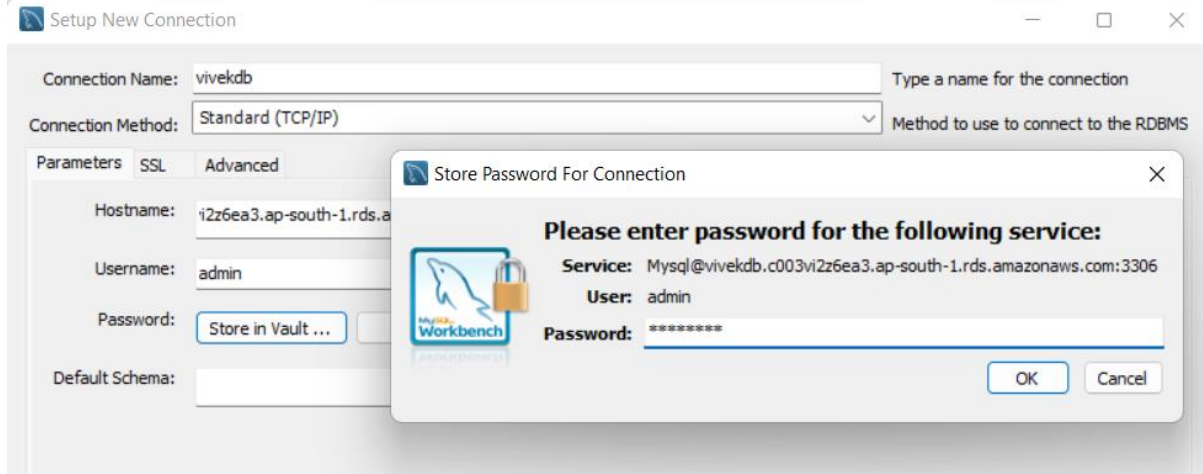
Connection Method: Standard (TCP/IP)

Parameters

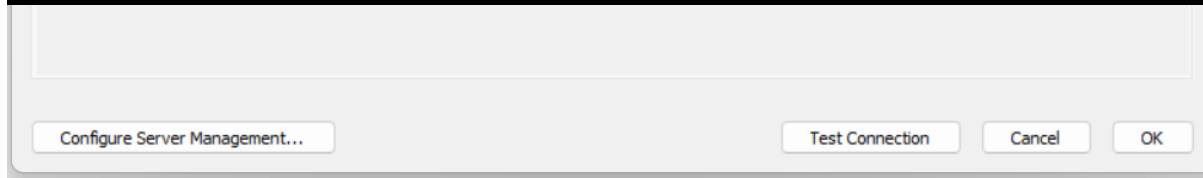
Field	Value	Description
Hostname	i2z6ea3.ap-south-1.rds.amazonaws.com	Name or IP address of the server host - and TCP/IP port.
Port	3306	
Username	admin	Name of the user to connect with.
Password	Store in Vault ...	The user's password. Will be requested later if it's not set.
Default Schema		The schema to use as default schema. Leave blank to select it later.

(RELATIONAL DATABASE SERVICES (RDS))

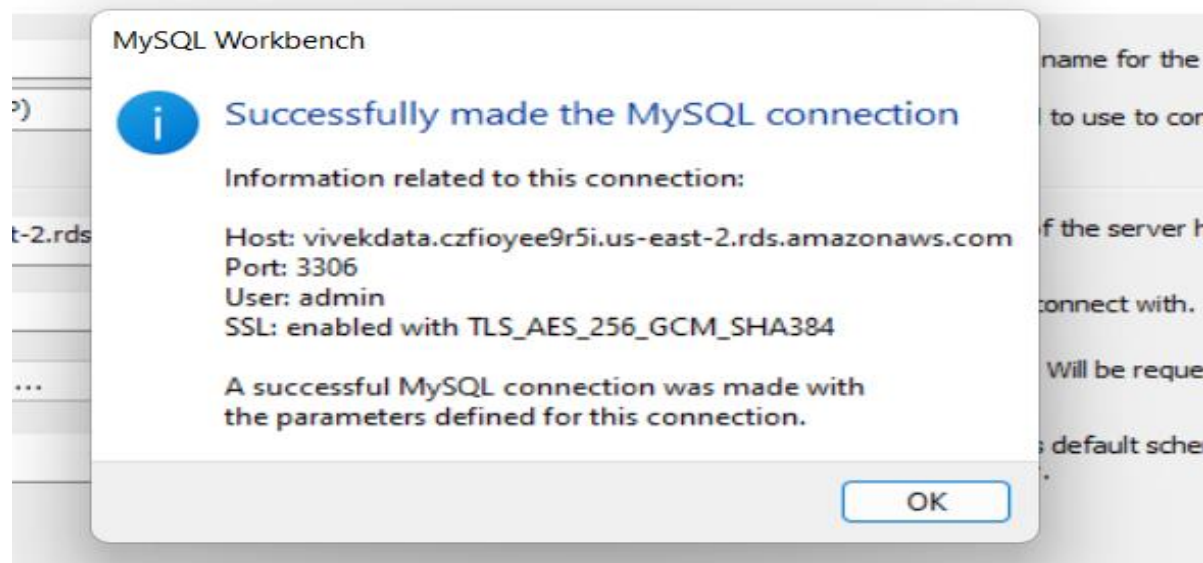
Enter username and open store vault



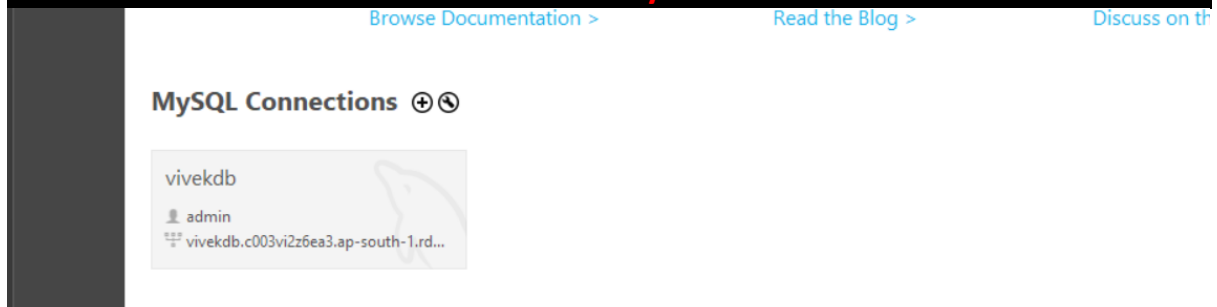
Click to test connection



If configuration all ok then test connection successfully



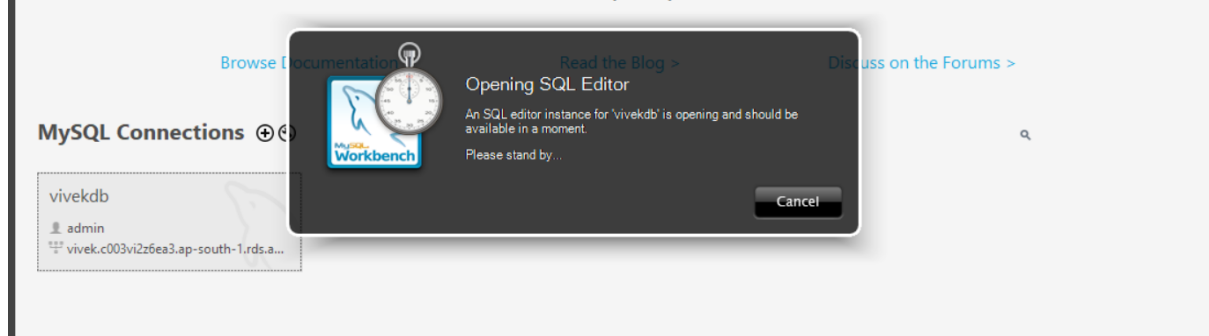
Successfully save



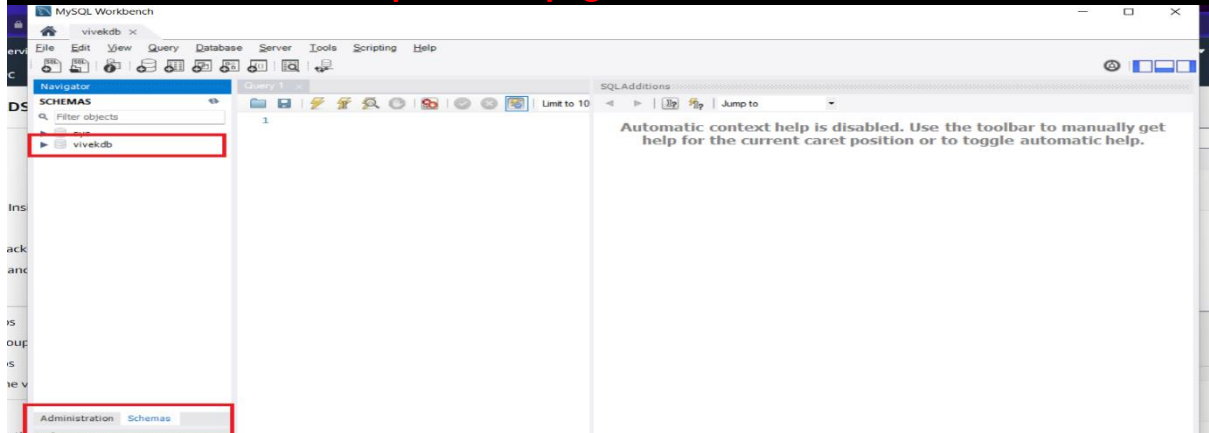
(RELATIONAL DATABASE SERVICES (RDS))

Click to database

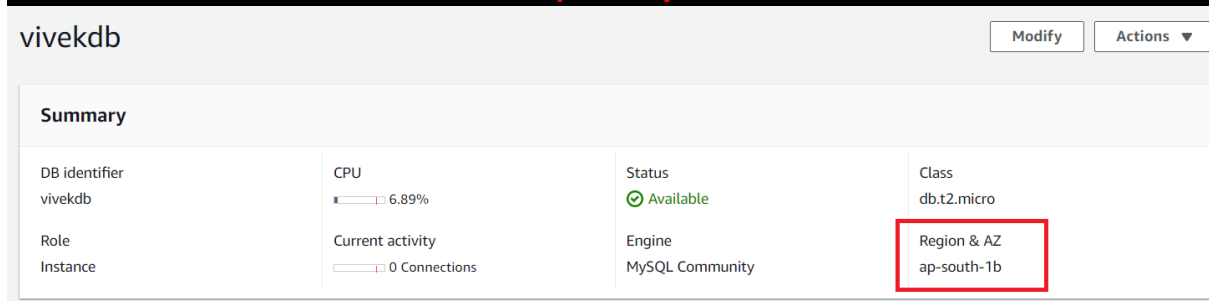
database vendors to your MySQL database.



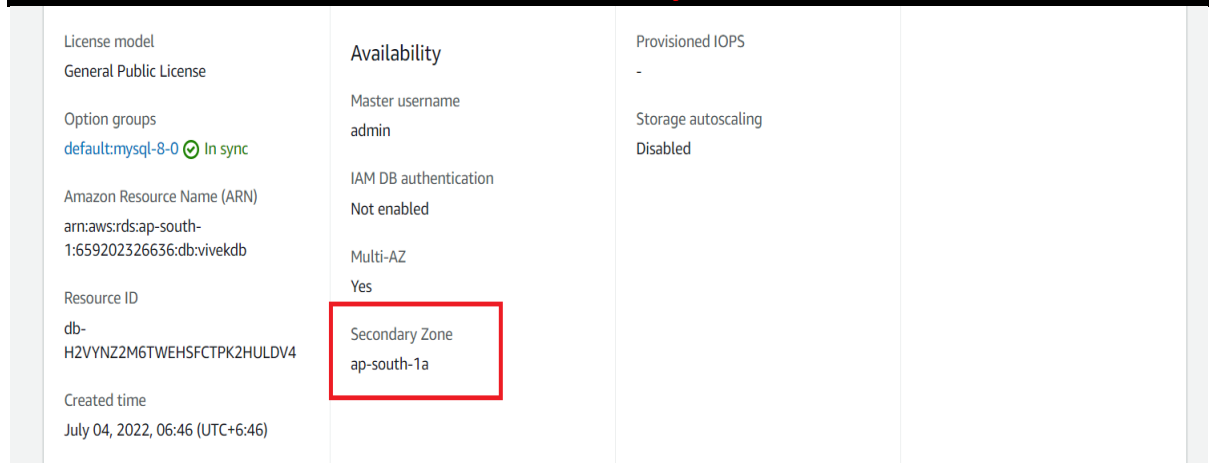
Open main page clicks schemas



See primary AZ

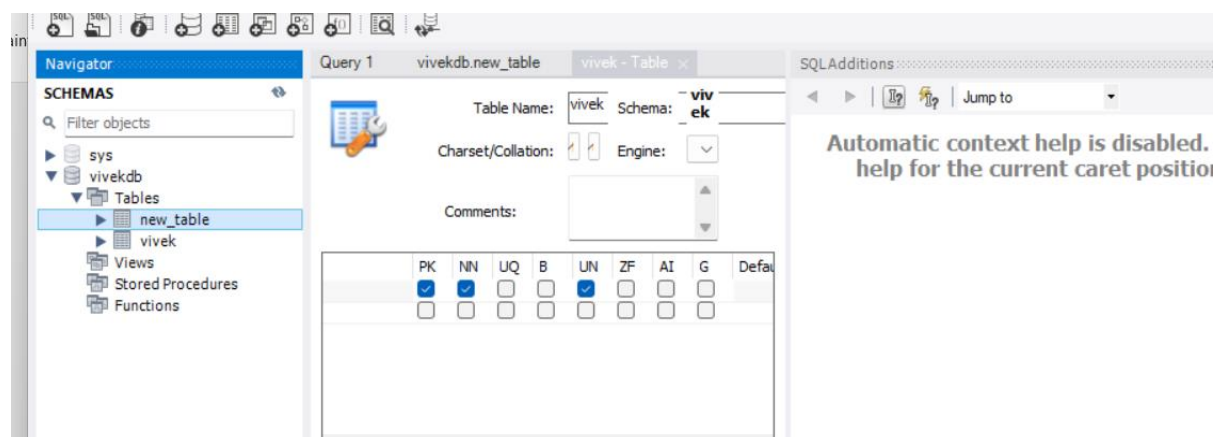
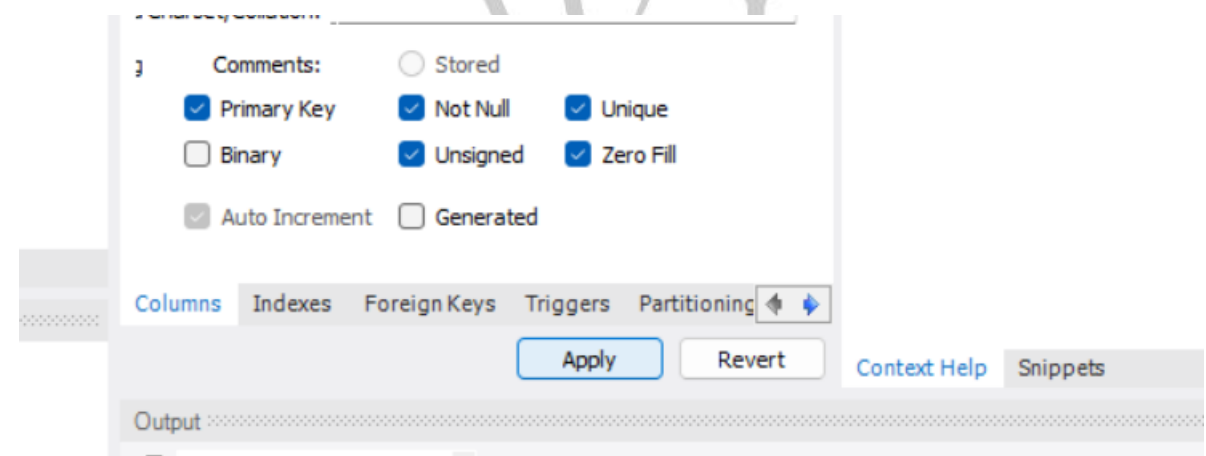
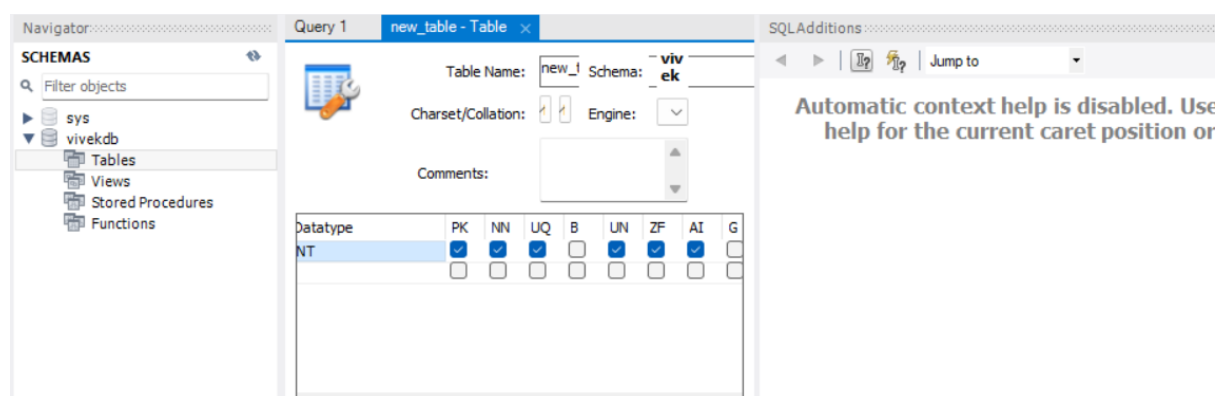
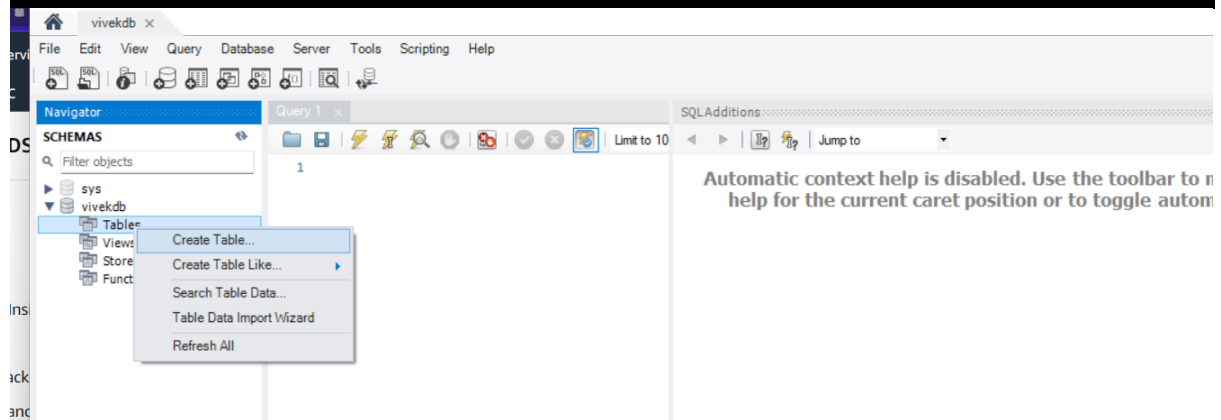


SEE scendary AZ



(RELATIONAL DATABASE SERVICES (RDS))

Create table



(RELATIONAL DATABASE SERVICES (RDS))

If reboot system

vivekdb

Summary

DB identifier vivekdb	CPU 8.00%	Status Available	Class db.t2.micro
Role Instance	Current activity 2 Connections	Engine MySQL Community	Region & AZ ap-south-1

Modify Actions

- Stop
- Reboot
- Delete
- Create read replica
- Create Aurora read replica
- Promote
- Take snapshot

Check mark to failover data

Reboot DB Instance

DB Instances

Are you sure you want to reboot these DB Instance(s)?

- vivekdb

☒ Reboot With Failover?

Cancel Confirm

See reboot system

Databases

Group resources

Filter by databases

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current act
vivekdb	Instance	MySQL Community	ap-south-1b	db.t2.micro	Rebooting	7.38%	2 C

After reboot see failover system one AZ to Another AZ

Databases

Group resources

Filter by databases

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU
vivekdb	Instance	MySQL Community	ap-south-1a	db.t2.micro	Available	8.7

See primary AZ

Summary

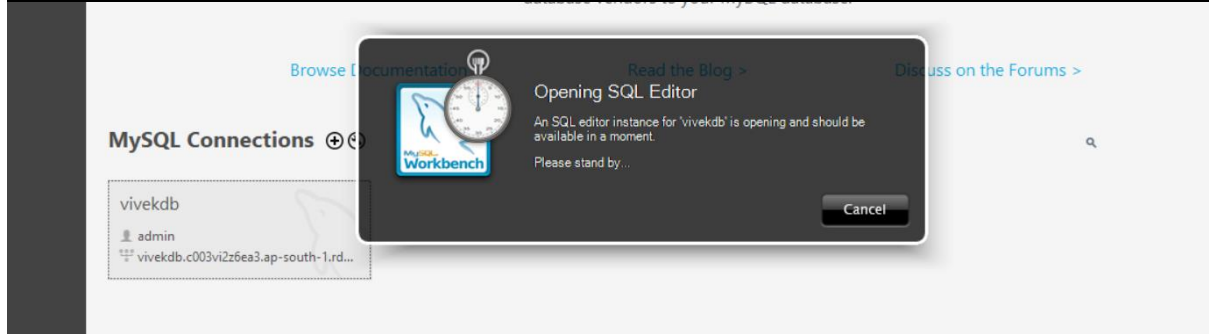
DB identifier vivekdb	CPU 7.80%	Status Available	Class db.t2.micro
Role Instance	Current activity 2 Connections	Engine MySQL Community	Region & AZ ap-south-1a

Seconadroy AZ

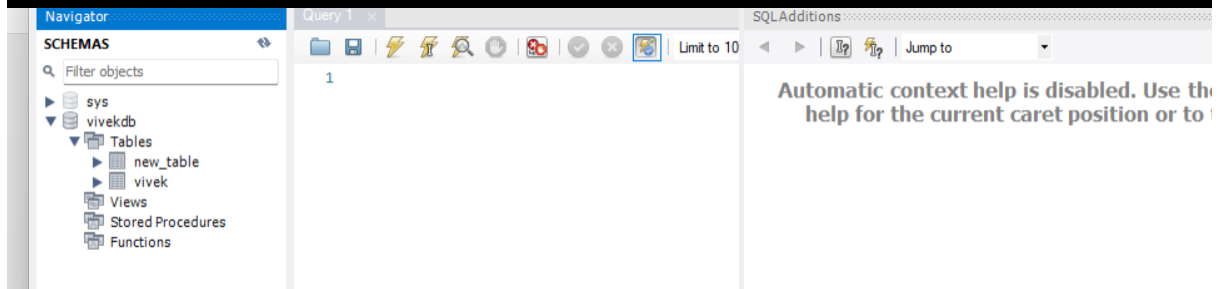
arn:aws:rds:ap-south-1:659202326636:db:vivekdb	Multi-AZ Yes	Secondary Zone ap-south-1b
Resource ID db-H2VYNZ2M6TWEHSFCTPK2HULDV4		
Created time		

(RELATIONAL DATABASE SERVICES (RDS))

Try to connect



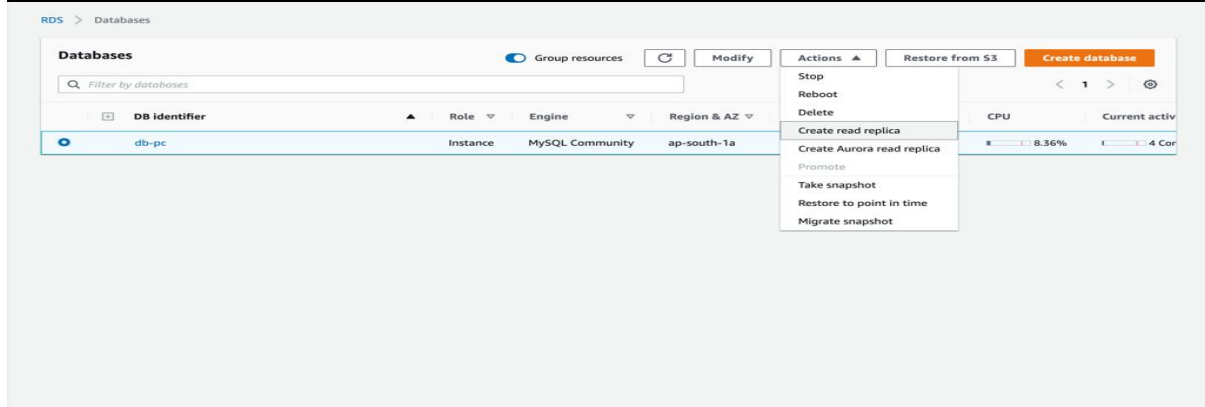
See all data is available after failover



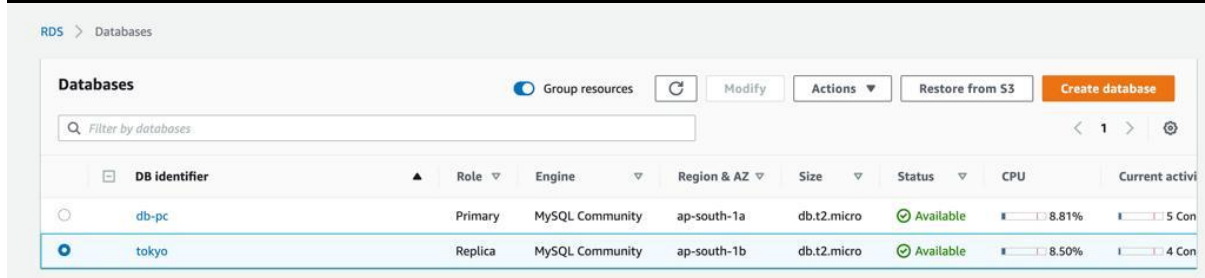
(RELATIONAL DATABASE SERVICES (RDS))

Create Read Replica

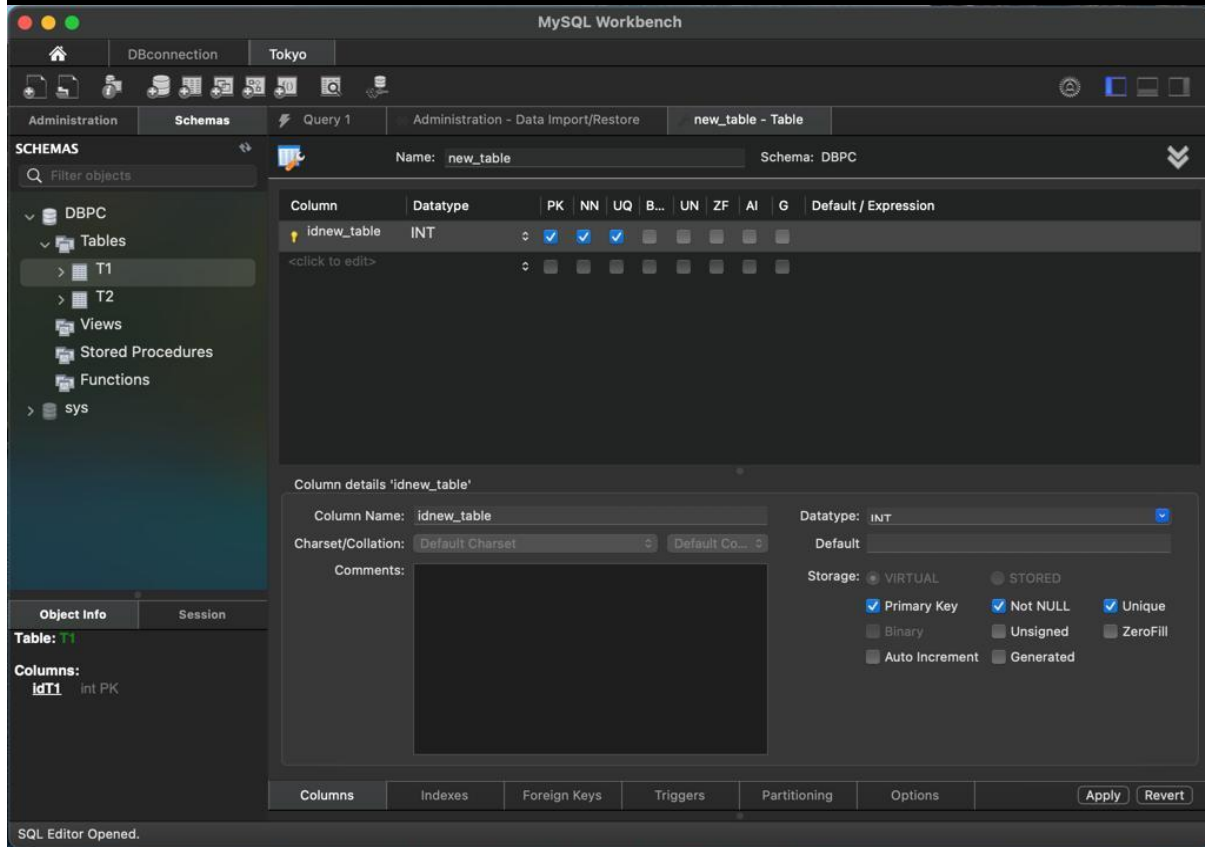
Click to create read replica



Create successfully



Create table



(RELATIONAL DATABASE SERVICES (RDS))

Automatic create table sysnce ok and not delete any tables only read permission

