



Discipline

Configure a RDS with Postgres SQL and create 2 table in it.

CS5002

Activity-17

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❖ Problem Statement:

Configure a RDS with Postgres SQL and create 2 table in it.

Table 1: Books, with attribute as Name, Pages, Cost and Language.

Table 2: Movies, with Attribute, Movie Name: Actor, Director, Release Year.

❖ Solution:

Step 1: Creating Database with the settings below.

The screenshot shows the 'Create database' page in the AWS Management Console. The page is titled 'Create database' and has a breadcrumb 'RDS > Create database'. The 'Choose a database creation method' section has two options: 'Standard create' (selected) and 'Easy create'. The 'Engine options' section shows 'Engine type' with six options: Amazon Aurora, MySQL, MariaDB, PostgreSQL (selected), Oracle, and Microsoft SQL Server. The 'Version' dropdown is set to 'PostgreSQL 12.7-R1'. The 'Templates' section has three options: 'Production', 'Dev/Test', and 'Free tier' (selected). The 'Settings' section shows the 'DB instance identifier' as 'activity17DB'. The 'Credentials Settings' section is collapsed.

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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.

Engine options

Engine type [Info](#)

☐ Amazon Aurora

☐ MySQL

☐ MariaDB

☒ PostgreSQL

☐ Oracle

☐ Microsoft SQL Server

Version

PostgreSQL 12.7-R1

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](#)

Settings

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

activity17DB

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). 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.

▼ Credentials Settings

Master username [Info](#)

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

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](#)

DB instance class

DB instance class [Info](#)

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

db.t2.micro

1 vCPUs 1 GiB RAM Not EBS Optimized

☒ Include previous generation classes

Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Allocated storage

20

GiB

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

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 once the specified threshold is

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

1000

GiB

Minimum: 21 GiB. Maximum: 16,384 GiB

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

Connectivity



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

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

Default VPC (vpc-f99b4b92)

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 [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.

...

Retention period [Info](#)

Default (7 days) ▼

AWS KMS Key [Info](#)

(default) aws/rds ▼

Account

137496460515

KMS key ID

alias/aws/rds

⚠

You can't change the KMS key after enabling Performance Insights.

Monitoring

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

Log exports

Select the log types to publish to Amazon CloudWatch Logs

☐ Postgresql log
☐ Upgrade log

IAM role

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

RDS service-linked role

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.

☐ 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.

Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page.](#)

ⓘ

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

Feedback

English (US) ▼

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In Below Screenshot we can see the database created successfully

Amazon RDS

Dashboard

Databases

Query Editor

Performance Insights

Snapshots

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Events

Event subscriptions

Recommendations

Creating database activity17db

Your database might take a few minutes to launch.

View credential details

RDS > Databases

Databases

☒ Group resources

Modify

Actions ▼

Restore from S3

Create database

Filter databases

DB identifier

Role

Engine

Region & AZ

Size

Status

CPU

activity17db

Instance

PostgreSQL

ap-south-1b

db.t2.micro

Available

-

Step 2: Connecting the created Database to Sqlectron.

Server Information

Name

activity17DB

Database Type

PostgreSQL

SSL

Server Address

activity17db.cu6jicfosqhk.ap-south-1

5432

Domain

Unix socket path

User

activity17DB

Password

.....

Initial Database/Keyspace

Database

Initial Schema

Schema

URI

postgres://activity17DB:*****@activity17db.cu6jicfosqhk.ap-south-1.rds.amazonaws.com:5432

Make the password visible in order to change the database credentials through the URI format.

SSH Tunnel

Filter

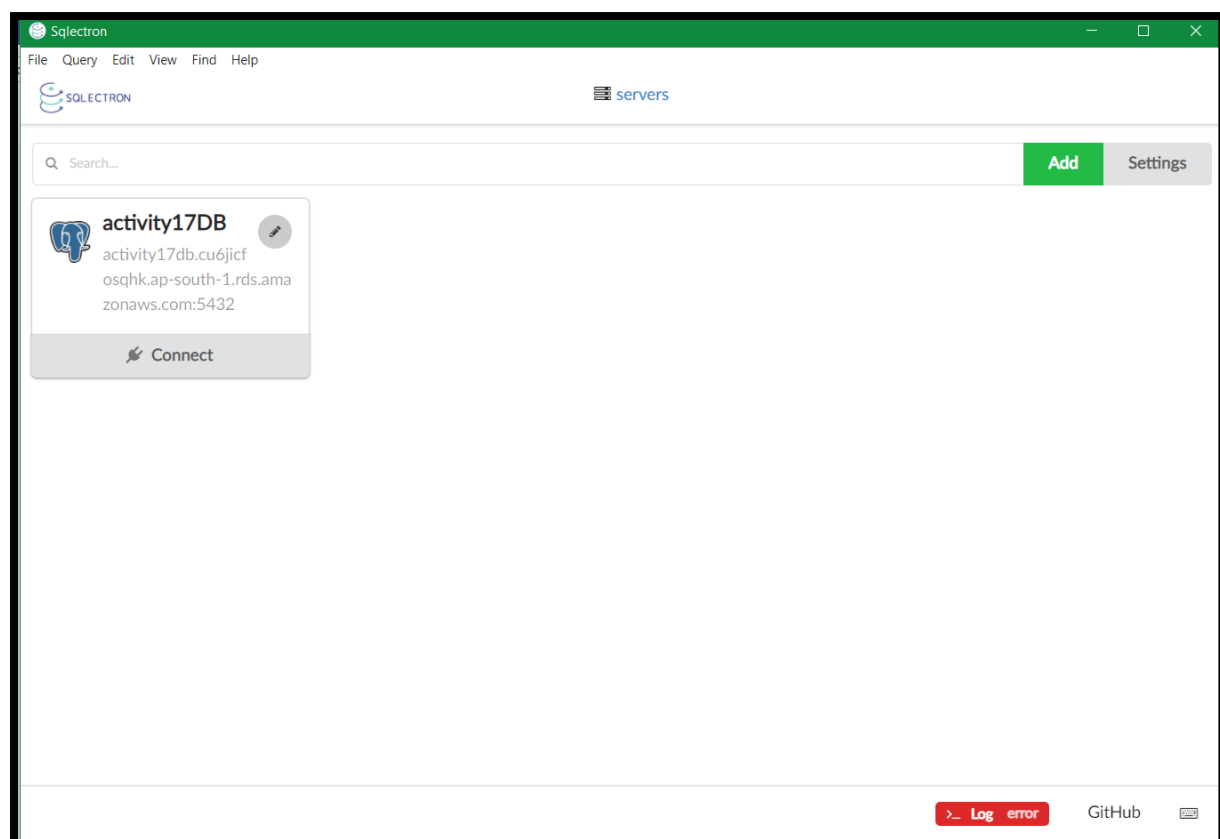
Test

Duplicate

Cancel

Save

Remove



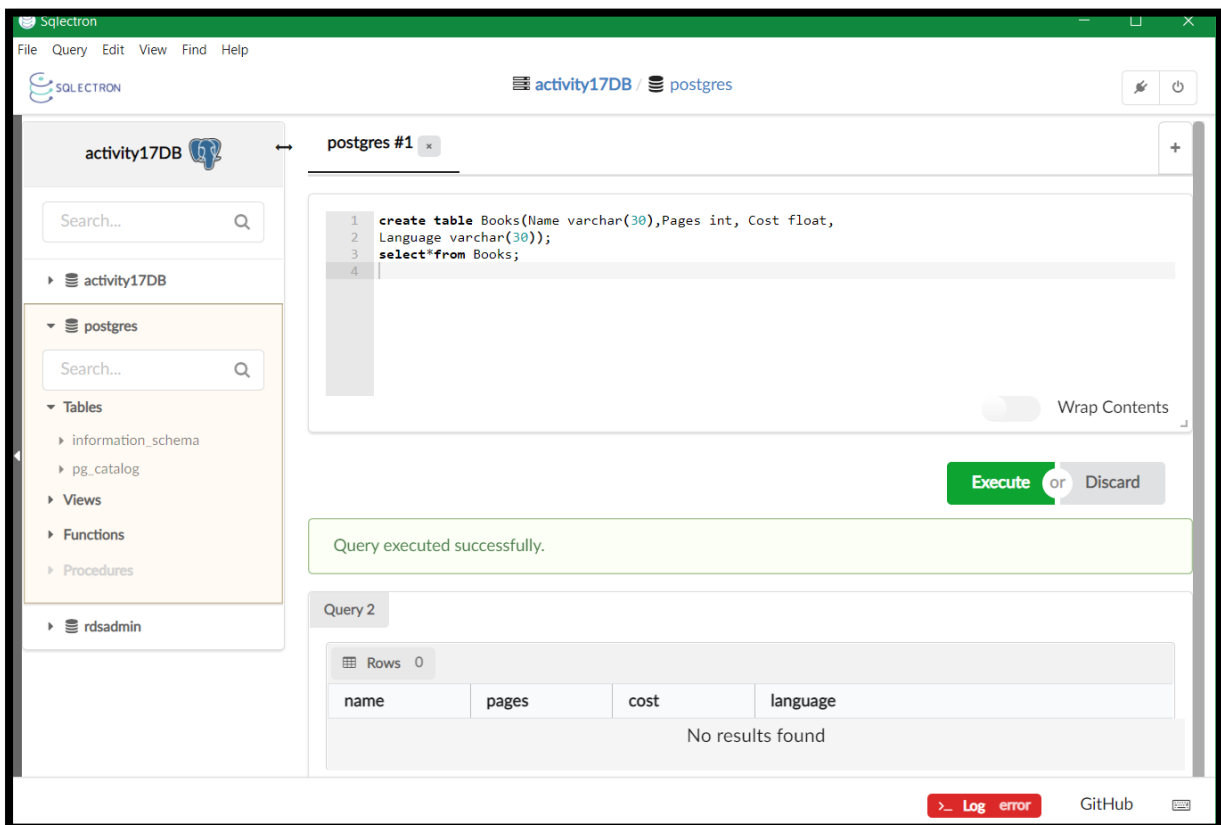
Step 3: Creating Table with MySQL commands.

➤ Table 1:

Books, with attribute as Name, Pages, Cost and Language.

➤ Command:

1. create table Books (Name varchar (30), Pages int, Cost float, Language varchar (30));
2. select*from Books;



➤ Table 2:

Movies, with Attribute, Movie Name, Actor, Director, Release Year.

➤ Command:

1. create table Movies (Movie_Name varchar (30), Actor varchar (30), Director varchar (30), Release_year int);
2. select*from Movies;

