# RDS Demo.md 7/17/2023

# **RDS Demo**

#### Creaye RDS Instance - MySQL

- Use the Easy Create option
- Engine: MySQL
- DB instance size: free or dev/test
- DB cluster identifier: <enter dbname ... >
- · Master username, and passord
- Create Database

# Install MySQL client on EC2 or local machine

- 1. Open a terminal window.
- 2. Install the MySQL Community repository:

```
sudo wget https://dev.mysql.com/get/mysql80-community-release-el9-
1.noarch.rpm
sudo ls -lrt
```

3. Install the MySQL server:

```
sudo dnf install mysql80-community-release-el9-1.noarch.rpm
dnf repolist enabled | grep "mysql.*-community.*"
sudo dnf install mysql-community-server
```

4. Start the MySQL server:

```
sudo systemctl start mysqld
sudo mysql -V
```

5. Access MySql server

```
mysql -h <MySQL instance endpoint> -P<portnumber> -u admin -p
```

# Connecting to DB from laptop terminal

Example:

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```
sudo mysql —h mysql—instance1.123456789012.us—east—1.rds.amazonaws.com —P 3306 —u mymasteruser —p
```

#### **Connecton Troubleshooting**

- 1. Publicly accessible to yes (usually not recommended)
- 2. Security Group: Inbound rule, MySQL, 0.0.0.0/0

### Connecting to DB instance from MySQL Workbench

- From Database menue select Manage Connections
- Creat New Connection
- Hostname: "RDS instance Endpoint"
- Port: "port number"
- · username and password
- Test connection

# MySQL Example:

1. Create a database:

```
CREATE DATABASE example_db;
```

2. Use the newly created database:

```
USE example_db;
```

3. Create a table:

```
CREATE TABLE records (
  id INT PRIMARY KEY AUTO_INCREMENT,
  name VARCHAR(50),
  age INT,
  city VARCHAR(50)
);
```

4. Insert 20 records into the table:

```
INSERT INTO records (name, age, city) VALUES
  ('John Doe', 25, 'New York'),
  ('Jane Smith', 30, 'Los Angeles'),
```

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```
('Michael Johnson', 40, 'Chicago'),
('Emily Davis', 28, 'San Francisco'),
('David Wilson', 35, 'Miami'),
('Sarah Thompson', 32, 'Seattle'),
('Robert Anderson', 27, 'Boston'),
('Jennifer Martin', 33, 'Houston'),
('Christopher Lee', 29, 'Dallas'),
('Amanda Wright', 31, 'Austin'),
('Daniel Taylor', 26, 'Denver'),
('Olivia White', 34, 'Phoenix'),
('Matthew Brown', 29, 'Philadelphia'),
('Emma Taylor', 27, 'Washington, D.C.'), ('James Clark', 30, 'San Diego'),
('Sophia Allen', 36, 'Atlanta'),
('Joseph Hill', 28, 'Nashville'),
('Mia Green', 33, 'Portland'), ('William Turner', 31, 'Las Vegas'),
('Grace Cooper', 35, 'New Orleans');
```

#### 5. Read all the data from the table:

```
SELECT * FROM records;
```