

## LAB ASSIGNMENTS 3: AWS RDS

### Create Database

The screenshot displays the AWS Management Console interface for Amazon RDS. The top navigation bar includes the AWS logo, a search bar, and the user's profile. The left sidebar lists various RDS services, with 'Databases' selected. A prominent green notification banner at the top right confirms the successful creation of 'database-1'. Below the notification, a table titled 'Databases (1)' shows the details of the newly created instance. The table has columns for DB identifier, Status, Role, Engine, Region, and Size. The instance 'database-1' is listed with a status of 'Available', role of 'Instance', engine of 'MySQL Co...', region of 'ap-south-1b', and size of 'db.t4g.micro'. The bottom of the console shows the 'CloudShell' and 'Feedback' links.

### Start Spring Boot Application

The screenshot shows an IDE (IntelliJ IDEA) with a Spring Boot application running. The 'Run' console at the bottom displays the application's startup logs. The logs indicate that the application is starting on port 8080 and initializing various components, including the Spring DispatcherServlet and the Servlet 'dispatcher'. The code editor in the background shows the 'Expense.java' file, which contains annotations like @Entity and @Id, and a public class Expense with a public method getId.

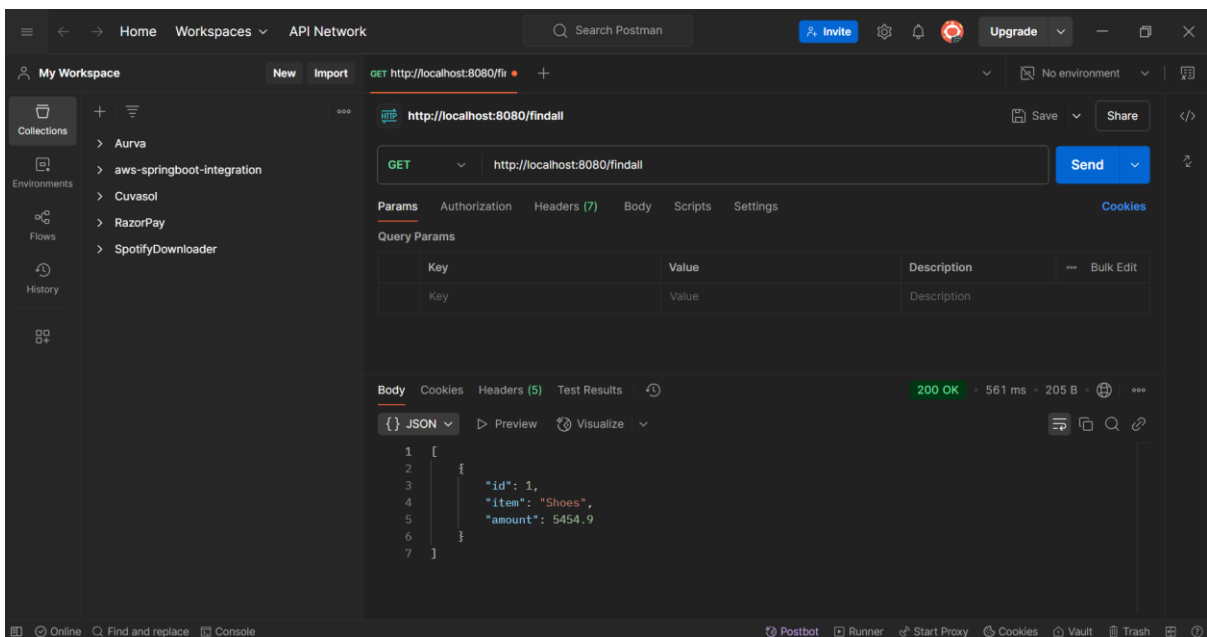
## Connect to RDS from CMD

```
mysql> use lab5
Database changed
mysql> show tables;
+-----+
| Tables_in_lab5 |
+-----+
| expense        |
+-----+
1 row in set (0.03 sec)

mysql> select * from expense;
+----+-----+-----+
| id | amount | item  |
+----+-----+-----+
| 1  | 5454.9 | Shoes |
+----+-----+-----+
1 row in set (0.03 sec)

mysql>
```

## REST endpoints to access the RDS database



The screenshot shows the Postman interface with a REST client request configured. The URL is `http://localhost:8080/findall` and the method is `GET`. The response is a `200 OK` status with a `561 ms` response time and `205 B` of data. The response body is a JSON array containing one object with the following fields:

```
{
  "id": 1,
  "item": "Shoes",
  "amount": 5454.9
}
```