## 4. Connectivity with MySQL

To connect Java application with the MySQL database, we need to follow 5 following steps. In this example we are using MySql as the database. So, we need to know following information for the mysql database:

- 1. **Driver class:** The driver class for the mysql database is **com.mysql.jdbc.Driver**.
- 2. **Connection URL:** The connection URL for the mysql database is **jdbc:mysql:**//**localhost:3306/organization** where jdbc is the API, mysql is the database, localhost is the server name on which mysql is running, we may also use IP address, 3306 is the port number and organization is the database name. We may use any database, in such case, we need to replace the organization with our database name.
- 3. **Username:** The default username for the mysql database is **root**.
- 4. **Password:** It is the password given by the user at the time of installing the mysql database. In this example, we are going to use root as the password.

Let's first create a table in the mysql database, but before creating table, we need to create database first.

```
CREATE DATABASE organization;
USE organization;
CREATE TABLE employee(empid INT, name VARCHAR(40), designation VARCHAR(40), salary INT);
INSERT INTO employee (empid, name, designation, salary)
VALUES
(1, 'John Doe', 'Software Engineer', 60000),
(2, 'Jane Smith', 'Senior Developer', 75000),
(3, 'Robert Brown', 'Project Manager', 90000),
(4, 'Emily White', 'QA Engineer', 55000),
(5, 'Michael Green', 'DevOps Engineer', 65000);
```

## **Example to Connect Java Application with mysql database**

In this example, organization is the database name, root is the username and password both.

## **Output:**

```
John Doe Software Engineer 60000
Jane Smith Senior Developer 75000
Robert Brown Project Manager 90000
Emily White QA Engineer 55000
Michael GreenDevOps Engineer 65000
```