

MORDERN APPLICATION DEVELOPMENT
(JAVA SPRING BOOT)
ASSIGNMENT-3

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GOOGLE DRIVE LINK:

https://drive.google.com/drive/folders/1hmlHKYGC8c6MSQn2MKASU52_cvV3Q_53?usp=drive_link

1. Implement JDBC Connectivity using java

DATABASE CONNECTIVITY CODE:

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class Main {

    public static void main(String args[]) {
        try {
            // 1.register the driver
            Class.forName("com.mysql.jdbc.Driver");

            // 2.connection
            Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/OFFICE", "root",
"Sharan@999");

            // 3.Statement
            Statement stmt = conn.createStatement();

            // 4.Execute query
            ResultSet rs = stmt.executeQuery("select * from employees");

            while (rs.next()) {
                System.out.println(rs.getInt(1) + " " + rs.getString(2) + " " + rs.getInt(3)+" "+rs.getString(4)+"
"+rs.getInt(5));
            }

            // 5.close the conenction
            conn.close();
        } catch (Exception e) {

        }
    }
}
```

```
}  
}
```

DATABASE CREATION QUERY:

```
CREATE DATABASE OFFICE;
```

```
USE OFFICE;
```

```
CREATE TABLE Employees (  
    employee_id INT PRIMARY KEY,  
    name VARCHAR(100),  
    department_id INT,  
    position VARCHAR(50),  
    salary DECIMAL(10, 2)  
);
```

```
INSERT INTO Employees (employee_id, name, department_id, position, salary)  
VALUES
```

```
(1, 'John Doe', 1, 'Manager', 5000.00),  
(2, 'Jane Smith', 1, 'Assistant Manager', 4000.00),  
(3, 'Mike Johnson', 2, 'Developer', 3000.00),  
(4, 'Emily Davis', 2, 'Developer', 3000.00),  
(5, 'Chris Wilson', 3, 'Sales Representative', 2500.00);
```

SCREENSHOTS:

```
mysql> create database OFFICE;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use office;  
Database changed
```

```
mysql> create table Employees(emp_id INT PRIMARY KEY,name VARCHAR(100),department_id INT,position VARCHAR(50),salary DECIMAL(10,2));  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> INSERT INTO Employees (emp_id, name, department_id, position, salary)  
-> VALUES  
-> (1, 'John Doe', 1, 'Manager', 5000.00),  
-> (2, 'Jane Smith', 1, 'Assistant Manager', 4000.00),  
-> (3, 'Mike Johnson', 2, 'Developer', 3000.00),  
-> (4, 'Emily Davis', 2, 'Developer', 3000.00),  
-> (5, 'Chris Wilson', 3, 'Sales Representative', 2500.00);  
Query OK, 5 rows affected (0.01 sec)  
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from employees;
```

emp_id	name	department_id	position	salary
1	John Doe	1	Manager	5000.00
2	Jane Smith	1	Assistant Manager	4000.00
3	Mike Johnson	2	Developer	3000.00
4	Emily Davis	2	Developer	3000.00
5	Chris Wilson	3	Sales Representative	2500.00

5 rows in set (0.00 sec)

CODE OUTPUT:

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.1.2\lib\idea_rt.jar=53263:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.1.2\bin" -Dfile.encoding=UTF-8
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally discouraged.
1 John Doe 1 Manager 5000
2 Jane Smith 1 Assistant Manager 4000
3 Mike Johnson 2 Developer 3000
4 Emily Davis 2 Developer 3000
5 Chris Wilson 3 Sales Representative 2500

Process finished with exit code 0
```