

Modern Application Development (Java Spring Boot)

ASSIGNMENT – 3

Creating the Database that we need to connect to Java JDBC:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\bodar> mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| siddudb |
| sys |
+-----+
5 rows in set (0.00 sec)
```

```

Windows PowerShell
mysql> create database DB_20MIS7068
-> ;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| db_20mis7068 |
| information_schema |
| mysql |
| performance_schema |
| siddudb |
| sys |
+-----+
6 rows in set (0.00 sec)

mysql> use db_20mis7068
Database changed
mysql> create table EngineeringStudents(
-> student_ID INT NOT NULL,
-> Department VARCHAR(25),
-> First_Name VARCHAR(25),
-> Last_Name VARCHAR(25),
-> PassOutYear INT NOT NULL,
-> University_Rank INT NOT NULL,
-> PRIMARY KEY(student_ID)
-> );
Query OK, 0 rows affected (0.02 sec)

```

```

Windows PowerShell
mysql> INSERT INTO EngineeringStudents VALUES (7068,'MTSE','Rangasai','Siddartha',2025,55);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7025,'MTSE','Pokala','Rohit',2025,54);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7016,'CSE','Vivek','Vardhan',2025,56);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7030,'ECE','Tharun','Goud',2024,44);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7040,'ECE','Yogi','Reddy',2024,44);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7039,'CSE','Veerndra','bee',2024,45);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7005,'MTSE','Bansi','Noel',2025,99);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7026,'CSE','Pallavi','Iyer',2025,26);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7062,'MTSE','Aparna supriya','Suresh',2025,62);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EngineeringStudents VALUES (7003,'ECE','Pooja','P',2024,03);
Query OK, 1 row affected (0.03 sec)

```

```
Windows PowerShell
mysql> INSERT INTO EngineeringStudents VALUES (7003,'ECE','Pooja','P',2024,03);
Query OK, 1 row affected (0.03 sec)

mysql> select * from EngineeringStudents;
+-----+-----+-----+-----+-----+-----+
| student_ID | Department | First_Name | Last_Name | PassOutYear | University_Rank |
+-----+-----+-----+-----+-----+-----+
| 7003 | ECE | Pooja | P | 2024 | 3 |
| 7005 | MTSE | Banshi | Noel | 2025 | 99 |
| 7016 | CSE | Vivek | Vardhan | 2025 | 56 |
| 7025 | MTSE | Pokala | Rohit | 2025 | 54 |
| 7026 | CSE | Pallavi | Iyer | 2025 | 26 |
| 7030 | ECE | Tharun | Goud | 2024 | 44 |
| 7039 | CSE | Veerndra | bee | 2024 | 45 |
| 7040 | ECE | Yogi | Reddy | 2024 | 44 |
| 7062 | MTSE | Aparna supriya | Suresh | 2025 | 62 |
| 7068 | MTSE | Rangasai | Siddartha | 2025 | 55 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> select student_ID,Department,First_Name,Last_Name,PassOutYear from EngineeringStudents where Student_ID = 7068;
+-----+-----+-----+-----+-----+
| student_ID | Department | First_Name | Last_Name | PassOutYear |
+-----+-----+-----+-----+-----+
| 7068 | MTSE | Rangasai | Siddartha | 2025 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

Connecting the Database with Java JDBC:

We need to perform try catch method and the modules need to import are:

- Connection
- DriverManager
- ResultSet
- Statement

```
package com.gnanitha;

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 {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/db_20mis7068","root","Anuprasa
d_19");

            Statement statement = conn.createStatement();
            ResultSet resultSet = statement.executeQuery("select * from
EngineeringStudents");
            while (resultSet.next()) {
                System.out.println(resultSet.getString("First_Name"));
            }
        }
        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

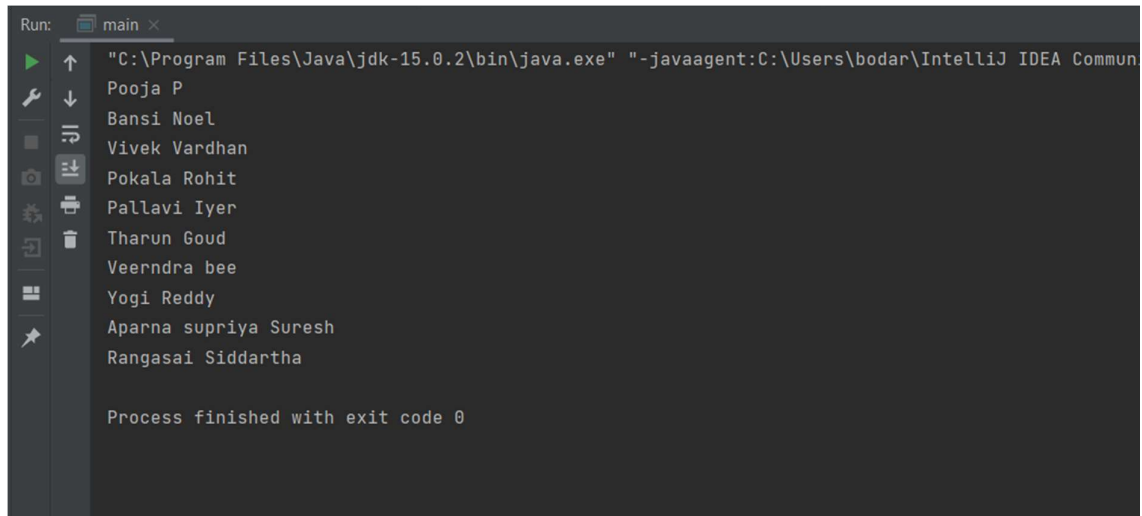
```
Run: main x
"C:\Program Files\Java\jdk-15.0.2\bin\java.exe" "-javaagent:C:\Users\bodar\IntelliJ I
Pooja
Bansi
Vivek
Pokala
Pallavi
Tharun
Veerndra
Yogi
Aparna supriya
Rangasai

Process finished with exit code 0
```

```
package com.gnanitha;

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 {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/db_20mis7068","root","Anuprasa
d_19");
            Statement statement = conn.createStatement();
            ResultSet resultSet = statement.executeQuery("select * from
EngineeringStudents");
            while (resultSet.next()) {
                System.out.println(resultSet.getString("First_Name")+ " "
+resultSet.getString("Last_Name"));
            }
        }
        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```



```
Run: main ×
"C:\Program Files\Java\jdk-15.0.2\bin\java.exe" "-javaagent:C:\Users\bodar\IntelliJ IDEA Commun
Pooja P
Bansi Noel
Vivek Vardhan
Pokala Rohit
Pallavi Iyer
Tharun Goud
Veerndra bee
Yogi Reddy
Aparna supriya Suresh
Rangasai Siddartha

Process finished with exit code 0
```

Jetti. Gnanitha

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