

Java – MySQL Database [JDBC] Program

2020-24 Batch

S3 CSE (A)

Jyothi Engineering College Computer Science & Engineering

JDBC – Java Database Connectivity [Module – 5] Java Program [Exp 57]



Thrissur



422



paulson@jecc.ac.in



jecc.ac.in

PREREQUISITE

//Intsall Mysql Database Server (Community Edition) and Set root password(as 'root' itself) and Windows System Path Environment

MySQL Installer for Windows Download Link:

https://dev.mysql.com/get/Downloads/MySQLInstaller/mysqlinstaller-community-8.0.28.0.msi

How to install MySQL 8.0.28 Server and Workbench latest version on Windows 10: https://www.youtube.com/watch?v=eq-e_n7lm2M

Download and copy the mysql-connector-java jar file in the folder where you have saved the java program

MySQL Connector Java:

https://drive.google.com/file/d/1gthA4vrXkYIWUW47gRBJExDl2AXu4jF 5/view?usp=sharing

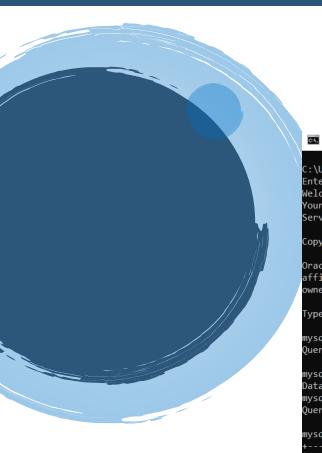
Compile the java program

Run/Interpret the java program using the classpath variable:

java -cp .;mysql-connector-java-8.0.28.jar JyothiDB



SCREENSHOTS



Command Prompt - mysql -u root -p

```
C:\Users\shaij>mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 8.0.28 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database jyothi;
Query OK, 1 row affected (0.02 sec)
mysql> use jyothi;
Database changed
mysql> create table student(rollno int, name varchar(20), branch varchar(3),cgpa
Query OK, 0 rows affected (0.05 sec)
mysql> describe student;
 Field | Type
                        | Null | Key | Default | Extra |
 rollno
           int
                                        NULL
           varchar(20)
                                        NULL
 name
 branch
           varchar(3)
                                        NULL
           float
                                        NULL
 cgpa
4 rows in set (0.02 sec)
mysql>
```



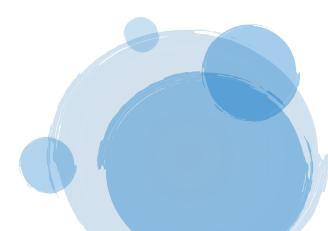




```
JyothiDB.java 🗶
```

```
import java.sql.*;
     public class JyothiDB
4
         public static void main(String args[]) throws Exception
5
 6
              Class.forName("com.mysql.jdbc.Driver");
 7
              Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jyothi","root","root"
 8
              Statement st=con.createStatement();
 9
10
              st.executeUpdate("insert into student values(1,'Amal','CSE',7.0)");
11
12
13
14
              st.executeUpdate("insert into student values(2,'Dia','CSE',9.0)");
              st.executeUpdate("insert into student values(3,'Joel','CSE',8.5)");
             System.out.println("***Inserted 3 records***");
15
              ResultSet rs=st.executeQuery("select * from student");
16
             String str="";
17
18
             while(rs.next())
19
20
21
             str=rs.getInt("rollno")+":"+rs.getString("name")+":"+rs.getString("branch")+":"+rs.getFloat('
              System.out.println(str);
22
23
24
25
26
27
              st.executeUpdate("delete from student where rollno=3");
              System.out.println("***Deleted 1 record***");
              ResultSet rs2=st.executeQuery("select * from student");
             String str2="";
28
              while(rs2.next())
29
30
             str2=rs2.getInt("rollno")+":"+rs2.getString("name")+":"+rs2.getString("branch")+":"+rs2.getFl
31
              System.out.println(str2);
32
33
34
35
36
37
              st.close();
             con.close();
```





```
Command Prompt
                                                                                                Microsoft Windows [Version 10.0.22000.527]
(c) Microsoft Corporation. All rights reserved.
C:\Users\shaij>d:
D:\>cd Java\s3cseA
D:\Java\s3cseA>dir
Volume in drive D is Data
Volume Serial Number is B882-75F7
 Directory of D:\Java\s3cseA
02/26/2022 09:10 PM
                        <DIR>
02/26/2022 09:02 PM
                        <DIR>
02/26/2022 09:10 PM
                                 2,377 JyothiDB.class
02/26/2022 09:10 PM
                                 1,205 JyothiDB.java
                             2,476,480 mysql-connector-java-8.0.28.jar
02/25/2022 12:59 AM
               3 File(s)
                              2,480,062 bytes
               2 Dir(s)
                          7,965,257,728 bytes free
D:\Java\s3cseA>javac JyothiDB.java
D:\Java\s3cseA>java -cp .;mysql-connector-java-8.0.28.jar JyothiDB
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc
iver'. The driver is automatically registered via the SPI and manual loading of the driver class is g
rally unnecessary.
***Inserted 3 records***
1:Amal:CSE:7.0
2:Dia:CSE:9.0
3:Joel:CSE:8.5
***Deleted 1 record***
1:Amal:CSE:7.0
2:Dia:CSE:9.0
D:\Java\s3cseA>
```





Command Prompt

```
C:\Users\shaij>mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 24
Server version: 8.0.28 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
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> use jyothi;
Database changed
mysql> select * from student;
 rollno | name | branch | cgpa
      1 | Amal | CSE
       2 Dia
               CSE
2 rows in set (0.00 sec)
mysql> exit
Bye
C:\Users\shaij>
```

