JDBC (JAVA DATA BASE CONNECTER)

We can control a database using java language . Here I will provide you some code as example. You have to create a maven project on your java IDE .

Then you have to add a dependency in pom.xml file. Here is the dependency code bellow.

```xml
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
   <groupId>mysql</groupId>
   <artifactId>mysql-connector-java</artifactId>
   <version>8.0.29</version>
</dependency>
```

Here I have created a table in qafox data base on mySQL workbench.

MYSQL CODE:

USE QAFOX;

CREATE TABLE STUDENT(ID INT,NAME VARCHAR(40));

INSERT INTO STUDENT VALUES(1,'ARKA');
INSERT INTO STUDENT VALUES(2,'ARUN');
INSERT INTO STUDENT VALUES(3,'BARUN');

SELECT * FROM STUDENT;

Table

	ID	NAME
▶	1	ARKA
	2	ARUN
	3	BARUN

>> Now we have to know the port number, user name and password of our mySQL server.

From mysql workbench I got all the informations. And now lets go for the code of java.

JAVA CODE TO WRITE MYSQL CODE :

```java
package org.example;

import java.sql.*;

public class arka_jdbc1 {
    public static void main(String[] args) throws SQLException {

        // connecting to qafox database using mysql server
        Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/qafox","root","arka_mySQL@.o07");
        if(!connection.isClosed()){
            System.out.println("Connected to qafox database in
mySQL server. ");
        }

        //creating a sql statement
        Statement statement = connection.createStatement();
        //statement.execute("insert into student
values(4,'barun')");
        //statement.execute("update student set name='tarun'
where id = 4");
        ResultSet resultSet = statement.executeQuery("select *
from student ");
        System.out.println("id name");
        while(resultSet.next()){
            int id = resultSet.getInt("id");
            String name = resultSet.getString("name");
            System.out.println(id+" "+name);
        }

        connection.close();
        if(connection.isClosed()){
            System.out.println("Here we are signing off from
qafox database in mysql server. ");
        }
    }
}
```

	ID	NAME
▶	1	ARKA
	2	ARUN
	3	BARUN
	4	tarun

We have also printed the table in the java IDE terminal . Here is the output...

Connected to qafox database in mySQL server.
id name
1 ARKA
2 ARUN
3 BARUN
4 tarun
Here we are signing off from qafox database in mysql server.

Process finished with exit code 0

Thus we can connect out mySQL program with java project.

Thank You

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