Week 10 Research

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JDBC is an API for connecting to relational databases from Java applications. It provides a set of standard classes and interfaces to connect to various database management systems. MySQL is a popular open-source relational database management system. It is widely used for web applications among other types of database management. MySQL can be accessed using JDBC, which allows us to connect to a MySQL database and perform various CRUD operations.

The 4 main JDBC classes are java.sql.DriverManager, java.sql.Connection, java.sql.Statement and java.sql.ResultSet.

import java.sql.\*;

public class JDBCExample {

public static void main(String[] args) {

Connection conn = null;

try {

// (a) Attach or Connect to a database

String url = "jdbc:mysql://localhost:3306/database\_name";

String username = "patrick";

String password = "corcoran";

conn = DriverManager.getConnection(url, username, password);

// (b) Create a statement

Statement sqlStatement = connection.createStatement();

// (c) Execute a query

String sqlQuery = "SELECT \* FROM table\_name";

ResultSet resultSet = statement.executeQuery(sqlQuery);

// (d) Process the data retrieved

while (resultSet.next()) {

// Example of processing data

String data = resultSet.getString("column\_name");

System.out.println("Data: " + data);

}

// (e) Close the connection to the database

resultSet.close();

statement.close();

connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

<https://www.quora.com/What-is-the-relationship-between-JDBC-and-MySQL>

<https://www.zaielacademic.net/web_databases_jsp_mysql/jdbc_classes.htm>