

ASSIGNMENT 3

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20BCE1539

PROGRAM

```
import java.sql.*;

public class JDBCExample {
    // JDBC driver and database URL
    static final String JDBC_DRIVER =
"com.mysql.jdbc.Driver";
    static final String DB_URL = "jdbc:mysql://
localhost/employee";

    // Database credentials
    static final String USER = "admin";
    static final String PASS = "admin1234";

    public static void main(String[] args) {
        Connection conn = null;
        Statement stmt = null;

        try {
            // Register JDBC driver
            Class.forName(JDBC_DRIVER);

            // Open a connection
            System.out.println("Connecting to
database...");
            conn =
DriverManager.getConnection(DB_URL, USER, PASS);

            // Create a table
            System.out.println("Creating table...");
            stmt = conn.createStatement();
            String createTableSQL = "CREATE TABLE
employees (id INT, name VARCHAR(50))";
            stmt.executeUpdate(createTableSQL);
```

```
        System.out.println("Table created  
successfully.");
```

```
        // Insert data into the table  
        System.out.println("Inserting data...");  
        String insertDataSQL = "INSERT INTO  
employees (id, name) VALUES (1, 'deep'), (2,  
'anushka'), (3, 'jane')";  
        stmt.executeUpdate(insertDataSQL);  
        System.out.println("Data inserted  
successfully.");
```

```
        // Retrieve data from the table  
        System.out.println("Retrieving data...");  
        String selectDataSQL = "SELECT id, name  
FROM employees";  
        ResultSet rs =  
stmt.executeQuery(selectDataSQL);
```

```
        // Process the result set  
        while (rs.next()) {  
            int id = rs.getInt("id");  
            String name = rs.getString("name");
```

```
                System.out.println("ID: " + id);  
                System.out.println("Name: " + name);  
                System.out.println();  
            }  
            rs.close();  
        } catch (SQLException se) {  
            se.printStackTrace();  
        } catch (Exception e) {  
            e.printStackTrace();  
        } finally {  
            try {  
                if (stmt != null)  
                    stmt.close();  
            } catch (SQLException se2) {  
            }  
            try {
```

```
        if (conn != null)
            conn.close();
    } catch (SQLException se) {
        se.printStackTrace();
    }
}
}
```