

```
public class DatabaseService {
    private static final String DB_NAME = "test";
    private static final String DB_USER = "root";
    private static final String DB_PASSWORD = "password";
    private static final String DB_HOST = "127.0.0.1";
    private static final int DB_PORT = 3306;
    private static final String DB_CHARSET = "utf8mb4";

    private static Connection connection;

    static {
        try {
            connection = DriverManager.getConnection("jdbc:mysql://" + DB_HOST + ":" + DB_PORT + "/" + DB_NAME, DB_USER, DB_PASSWORD);
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public static void main(String[] args) {
        try {
            DatabaseService dbService = new DatabaseService();
            dbService.createTable();
            dbService.insertData();
            dbService.selectAll();
            dbService.updateData();
            dbService.deleteData();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    private void createTable() {
        String sql = "CREATE TABLE IF NOT EXISTS users (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), department VARCHAR(255), properties JSON);";
        try {
            Statement statement = connection.createStatement();
            statement.executeUpdate(sql);
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    private void insertData() {
        String sql = "INSERT INTO users (name, department, properties) VALUES ('John Doe', 'Sales', '[]');";
        try {
            Statement statement = connection.createStatement();
            statement.executeUpdate(sql);
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    private void selectAll() {
        String sql = "SELECT * FROM users;";
        try {
            Statement statement = connection.createStatement();
            ResultSet resultSet = statement.executeQuery(sql);
            while (resultSet.next()) {
                System.out.println(resultSet.getString("name") + " - " + resultSet.getString("department") + " - " + resultSet.getString("properties"));
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    private void updateData() {
        String sql = "UPDATE users SET name = 'Jane Doe', department = 'Marketing' WHERE id = 1;";
        try {
            Statement statement = connection.createStatement();
            statement.executeUpdate(sql);
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    private void deleteData() {
        String sql = "DELETE FROM users WHERE id = 1;";
        try {
            Statement statement = connection.createStatement();
            statement.executeUpdate(sql);
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

