Academic Year: 2023-24 Semester: II Class: FYMCA

Course Code: MC506 Course Name: Java Programming

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**Experiment No.6** 

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Problem: Create the Employee Database and make connection using java.

```
import java.sql.*;
public class DatabaseExample {
   private static final String PASSWORD = "nita";
   public static void main(String[] args) {
       try (Connection conn = DriverManager.getConnection(DB URL, USER,
PASSWORD)) {
           createTable(conn);
        } catch (SQLException e) {
           e.printStackTrace();
       try (Connection conn = DriverManager.getConnection(DB URL, USER,
PASSWORD)) {
            createRecord(conn, "Ram", 22);
           readRecords(conn);
           updateRecord(conn, 1, "Updated name", 30);
```

```
} catch (SQLException e) {
           e.printStackTrace();
   private static void createTable(Connection conn) throws SQLException {
       String sql = "CREATE TABLE IF NOT EXISTS persons ("
                + "age INT NOT NULL)";
       Statement statement = conn.createStatement();
       statement.executeUpdate(sql);
       System.out.println("Table created successfully.");
   private static void createRecord(Connection conn, String name, int
age) throws SQLException {
       String sql = "INSERT INTO persons (name, age) VALUES (?, ?)";
       PreparedStatement statement = conn.prepareStatement(sql);
       statement.setString(1, name);
       statement.setInt(2, age);
       statement.executeUpdate();
       System.out.println("Record created successfully.");
   private static void readRecords (Connection conn) throws SQLException {
       String sql = "SELECT id, name, age FROM persons";
       Statement statement = conn.createStatement();
       ResultSet resultSet = statement.executeQuery(sql);
       while (resultSet.next()) {
            int id = resultSet.getInt("id");
           String name = resultSet.getString("name");
            int age = resultSet.getInt("age");
           System.out.println("ID: " + id + ", Name: " + name + ", Age: "
 age);
```

```
private static void updateRecord(Connection conn, int id, String
newName, int newAge) throws SQLException {
        String sql = "UPDATE persons SET name = ?, age = ? WHERE id = ?";
        PreparedStatement statement = conn.prepareStatement(sql);
        statement.setString(1, newName);
        statement.setInt(2, newAge);
        statement.setInt(3, id);
        statement.executeUpdate();
        System.out.println("Record updated successfully.");
   private static void deleteRecord(Connection conn, int id) throws
SQLException {
        String sql = "DELETE FROM persons WHERE id = ?";
        PreparedStatement statement = conn.prepareStatement(sql);
        statement.setInt(1, id);
       statement.executeUpdate();
        System.out.println("Record deleted successfully.");
```

## **OutPut:**

```
PS C:\Users\smart\Documents\SPIT-MCA\SPIT-lab\Sem 2\Java\Lab6> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '@C:\Users\smart\App p. 5d29spvsvmdfdsyydwhw0l47b.argfile' 'DatabaseExample'
Table created successfully.

Record created successfully.

ID: 1, Name: Updated name, Age: 30
ID: 2, Name: Updated name, Age: 30
ID: 3, Name: Ram, Age: 22
ID: 4, Name: Ram, Age: 22
ID: 5, Name: Ram, Age: 22
ID: 6, Name: Ram, Age: 22
ID: 7, Name: Ram, Age: 22
Record updated successfully.

PS C:\Users\smart\Documents\SPIT-MCA\SPIT-lab\Sem 2\Java\Lab6>
```