

```
create database GL;
use GL;
CREATE TABLE employee (
  Id INT PRIMARY KEY,
  Name VARCHAR(50) NOT NULL,
  Email_Id VARCHAR(50) NOT NULL,
  Phone_Number VARCHAR(20)
)
```

```
String url = "jdbc:mysql://localhost/GL";
String username = "your_username";
String password = "your_password";
String jdbcDriver = "com.mysql.cj.jdbc.Driver";
```

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

  // Open a connection
  Connection conn = DriverManager.getConnection(url, username, password);

  // Insert 5 records
  String insertQuery = "INSERT INTO employee (Id, Name, Email_Id, Phone_Number)
VALUES (?, ?, ?, ?)";
  PreparedStatement stmt = conn.prepareStatement(insertQuery);

  stmt.setInt(1, 1);
  stmt.setString(2, "John");
  stmt.setString(3, "john@example.com");
  stmt.setString(4, "1234567890");
  stmt.executeUpdate();

  stmt.setInt(1, 2);
  stmt.setString(2, "Mary");
  stmt.setString(3, "mary@example.com");
  stmt.setString(4, "2345678901");
  stmt.executeUpdate();

  stmt.setInt(1, 3);
  stmt.setString(2, "Bob");
  stmt.setString(3, "bob@example.com");
  stmt.setString(4, "3456789012");
  stmt.executeUpdate();

  stmt.setInt(1, 4);
```

```
stmt.setString(2, "Alice");
stmt.setString(3, "alice@example.com");
stmt.setString(4, "4567890123");
stmt.executeUpdate();
```

```
stmt.setInt(1, 5);
stmt.setString(2, "Tom");
stmt.setString(3, "tom@example.com");
stmt.setString(4, "5678901234");
stmt.executeUpdate();
```

```
System.out.println("Inserted 5 records successfully");
```

```
// Close the resources
stmt.close();
conn.close();
} catch (Exception e) {
    e.printStackTrace();
}
```

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

    // Open a connection
    Connection conn = DriverManager.getConnection(url, username, password);

    // Modify Email_Id column to varchar(30) NOT NULL
    String alterQuery = "ALTER TABLE employee MODIFY Email_Id VARCHAR(30) NOT NULL";
    Statement stmt = conn.createStatement();
    stmt.executeUpdate(alterQuery);
```

```
System.out.println("Modified Email_Id column successfully");
```

```
// Close the resources
stmt.close();
conn.close();
} catch (Exception e) {
    e.printStackTrace();
}
```

```
try {
    // Register JDBC driver
```

```

Class.forName(jdbcDriver);

// Open a connection
Connection conn = DriverManager.getConnection(url, username, password);

// Insert 2 records
String insertQuery = "INSERT INTO employee (Id, Name, Email_Id, Phone_Number)
VALUES (?, ?, ?, ?)";
PreparedStatement stmt = conn.prepareStatement(insertQuery);
stmt.setInt(1, 6);
stmt.setString(2, "Sarah");
stmt.setString(3, "sarah@example.com");
stmt.setString(4, "6789012345");
stmt.executeUpdate();

stmt.setInt(1, 7);
stmt.setString(2, "Peter");
stmt.setString(3, "peter@example.com");
stmt.setString(4, "446544646545");

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

    // Open a connection
    Connection conn = DriverManager.getConnection(url, username, password);

    // Update the name and phone number of employee Id 3
    String updateQuery = "UPDATE employee SET Name = ?, Phone_Number = ? WHERE Id =
?";
    PreparedStatement stmt = conn.prepareStatement(updateQuery);
    stmt.setString(1, "Karthik");
    stmt.setString(2, "1234567890");
    stmt.setInt(3, 3);
    stmt.executeUpdate();

    System.out.println("Updated employee record successfully");

    // Close the resources
    stmt.close();
    conn.close();
} catch (Exception e) {
    e.printStackTrace();
}

```

```

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

    // Open a connection
    Connection conn = DriverManager.getConnection(url, username, password);

    // Delete employee records 3 and 4
    String deleteQuery = "DELETE FROM employee WHERE Id IN (?, ?)";
    PreparedStatement stmt = conn.prepareStatement(deleteQuery);
    stmt.setInt(1, 3);
    stmt.setInt(2, 4);
    stmt.executeUpdate();

    System.out.println("Deleted employee records successfully");

    // Close the resources
    stmt.close();
    conn.close();
} catch (Exception e) {
    e.printStackTrace();
}

```

```

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

    // Open a connection
    Connection conn = DriverManager.getConnection(url, username, password);

    // Remove all records from the table employee
    String deleteQuery = "DELETE FROM employee";
    Statement stmt = conn.createStatement();
    stmt.executeUpdate(deleteQuery);

    System.out.println("Removed all records from employee table successfully");

    // Close the resources
    stmt.close();
    conn.close();
} catch (Exception e) {

```

```
e.printStackTrace();  
}
```