```
package jdbcapp2;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.logging.Level;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.logging.Logger;
import java.sql.*;

public class JDBCApp2 {


    public static void main(String[] args)
{
        int flag=1;
        String user="root";
        String password="root";
        String
URL="jdbc:mysql://localhost:3306/mysql?characterEncoding=utf8";
        BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        try {
            Class.forName("com.mysql.jdbc.Driver");

        Connection con = DriverManager.getConnection(URL,user,password);
        if (con!=null){
        System.out.println("\nConnection Established with database");
        while(flag==1){
        System.out.println("\nEnter your choice\n1.Retrieve
Data\n2.Insert Data\n3.Update Data\n4. Exit");
         int choice = Integer.parseInt(br.readLine());
        switch(choice){
            case 1:
                 // For retriving data
        String query;
        Statement stmt;
        ResultSet set;
        query = "select * from employee";
        stmt=con.createStatement();
        set = stmt.executeQuery(query);
        while(set.next()){
                int id=set.getInt(2);
                String name = set.getString(1);
                int salary = set.getInt(3);
        System.out.println("Employee details: "+"\nID: "+id+"\nName:
"+name+"\nSalary: "+salary);

        }
                break;

            case 2:
```

```
        String q = "insert into employee(Employeeid,EmployeeName,Salary)
value(?,?,?)";
        PreparedStatement pstmt = con.prepareStatement(q);
        System.out.println("Enter the Employee ID: ");
        String id1 = br.readLine();
        System.out.println("Enter name of employee: ");
        String name1 = br.readLine();
        System.out.println("Enter the salary: ");
        String salary1 = br.readLine();

        pstmt.setString(1, id1);
        pstmt.setString(2,name1);
        pstmt.setString(3, salary1);

        pstmt.executeUpdate();
        System.out.println("\nDatabase Updated sucessfully");

                break;
            case 3:
                 String q1 = "Update employee SET EmployeeName='RAM'
where Employeeid=?";
        PreparedStatement pstmt1 = con.prepareStatement(q1);
        System.out.println("Enter the Employee ID for which name to be
changed: ");
        String id2 = br.readLine();
        pstmt1.setString(1, id2);
        pstmt1.executeUpdate();
        System.out.println("\nDatabase Updated sucessfully");
                break;

          case 4:
              flag=0;
                break;
          default:
              System.out.println("\nEnter Valid choice!!");
        }
        }

        }
        else
            System.out.println("\nConnection Failed!!");

        }
        catch (ClassNotFoundException ex) {
            Logger.getLogger(JDBCApp2.class.getName()).log(Level.SEVERE,
null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(JDBCApp2.class.getName()).log(Level.SEVERE,
null, ex);
        } catch (IOException ex) {
            Logger.getLogger(JDBCApp2.class.getName()).log(Level.SEVERE,
null, ex);
        }
```

```
    }
}
```

Output.

```
Connection Established with database

Enter your choice
1.Retrieve Data
2.Insert Data
3.Update Data
4. Exit
1
Employee details:
ID: 123
Name: sudhir
Salary: 23455
Employee details:
ID: 123
Name: sudhir
Salary: 23455
Employee details:
ID: 345
Name: manoj
Salary: 34567
Employee details:
ID: 345
Name: sumit
Salary: 45
Employee details:
ID: 45
Name: pranali
Salary: 56000
Employee details:
ID: 67
Name: abc
Salary: 76000
Employee details:
ID: 67
Name: abc
Salary: 78000
Enter your choice
1.Retrieve Data
2.Insert Data
3.Update Data
4. Exit
4

BUILD SUCCESSFUL (total time: 23 seconds)
```