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package postgresConnectionExample;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
import java.sql.PreparedStatement;
public class PostgreSqlExample {
       public static void main(String[] args) {
              try
//Creating Connection Object
                     Connection connection =
DriverManager.getConnection("jdbc:postgresql://localhost:5432/university", "postgres",
"123456");
                     System.out.println("Java JDBC PostgreSQL Example");
                     System.out.println("Connected to PostgreSQL database!\n");
                     //Creating statement
                     Statement statement = connection.createStatement();
//Reading student names who have got A+ grade in semester Fall and year 2009
                     System.out.println("Reading student records...");
                     System.out.printf("%s %s %s", "Student id", "Student name", "Student
grade Student course\n");
                     //Reading values from resultset StudentList
                     ResultSet StudentList = statement.executeQuery(
                                    "select s.id,s.name,t.grade,t.course id from student
s,takes t where s.id=t.id and t.semester='Fall' and t.year='2009' and t.grade='A+' order by s.id
LIMIT 5;");
                     while (StudentList.next()) {
                             System.out.printf("%s %s %s %s\n\n", StudentList.getString("id"),
StudentList.getString("name"),
                                           StudentList.getString("grade"),
StudentList.getString("course_id"));
//inserting values using preparedstatement
```

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PreparedStatement st = connection. prepareStatement("INSERT INTO
instructor (ID, NAME, DEPT_NAME, SALARY) VALUES (?, ?, ?, ?)");
                      st.setString(1,"67825");
                      st.setString(2, "Peter");
                      st.setString(3,"English");
                      st.setFloat(4,(float) 90000.00);
                      st.executeUpdate();
                      st.close();
                       System.out.println("Inserted instructor values sucessfully...");
//updating department name of instructor Levine
                      Scanner myObj = new Scanner(System.in); // Create a Scanner object
                      System.out.println("Enter new department for instructor Levine");
                      //Reading new department name
                      String new dept name = myObj.nextLine();
                      System.out.println(new dept name);
                      String updatesql = "update instructor set dept_name="" + new_dept_name
+ "' where name='Levine'";
                      int updateStatus=statement.executeUpdate(updatesql);
//displaying instructor values after insert and update
System.out.printf("%s %s %s %s", "id", "name", "dept_name", "salary\n");
ResultSet instructorList = statement.executeQuery("select id,name,dept_name,salary from
instructor");
while (instructorList.next()) { System.out.printf("%s %s %s
s\n\n", instructorList.getString("id"), instructorList.getString("name"), instructorList.getString("dep
t name"),
instructorList.getString("salary"));
}
       } catch (SQLException e) {
                      System.out.println("Connection failure.");
                      e.printStackTrace();
              }
       }
}
```