gsf v8

hir12

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1

```java
package forritun;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class v8a {
    public static void main(String[] args) throws ClassNotFoundException{
        Class.forName("org.sqlite.JDBC");

        Connection connection = null;
        try {
            connection = DriverManager.getConnection("jdbc:sqlite:company.db");
            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery("SELECT Salary FROM EMPLOYEE");
            int count = 0;
            double sum = 0;
            while(rs.next()){
                sum += rs.getDouble(1);
                count++;
            }
            rs.close();
            System.out.print("Meðallaun eru: " + sum/count);
        }
        catch(SQLException e){
            System.err.println(e.getMessage());
        }
        finally{
            try {
                if(connection != null) connection.close();
            }
```

```java
            catch(SQLException e){
                System.err.println(e);
            }
        }
    }
}
```

2

```java
package forritun;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class v8b {
    public static void main(String[] args) throws ClassNotFoundException{
        Class.forName("org.sqlite.JDBC");

        Connection connection = null;
        try {
            connection = DriverManager.getConnection("jdbc:sqlite:company.db");
            Statement statement = connection.createStatement();
            statement.setQueryTimeout(30);

            String query = "update EMPLOYEE set salary = (salary + 200) where ssn = ?";
            PreparedStatement ps = connection.prepareStatement(query);
            ResultSet rs = statement.executeQuery("SELECT ssn FROM EMPLOYEE");

            while(rs.next()){
                String ssn = rs.getString(1);
                ps.clearParameters();
                ps.setString(1, ssn);
                ps.execute();
            }
            rs.close();
        }
        catch(SQLException e){
            System.err.println(e.getMessage());
        }
        finally{
            try {
```

```java
                if(connection != null) connection.close();
            }
            catch(SQLException e){
                System.err.println(e);
            }
        }
    }
}
```

3

```java
package forritun;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class v8c {
    public static void main(String[] args) throws ClassNotFoundException{
        Class.forName("org.sqlite.JDBC");

        Connection connection = null;
        try {
            connection = DriverManager.getConnection("jdbc:sqlite:company.db");
            Statement statement = connection.createStatement();

            statement.executeUpdate("update EMPLOYEE set salary = (salary + (0.03*salary))")

        }
        catch(SQLException e){
            System.err.println(e.getMessage());
        }
        finally{
            try {
                if(connection != null) connection.close();
            }
            catch(SQLException e){
                System.err.println(e);
            }
        }
    }
}
```

4

v8a

```
C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar v8a.java
Me?°allaun eru: 35125.0
```

v8b

```
C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar v8b.java

C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar v8a.java
Me?°allaun eru: 35325.0
```

v8c

```
C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar v8c.java

C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar v8a.java
Me?°allaun eru: 36384.75
```

JDBC1

```
C:\Users\Hákon Ingi\VS code\javavitleysa\forritun>java -cp .;sqlite-jdbc-3.39.3.0.jar JDBC1.java
Enter a Social Security Number: 888665555
Borg 56856.0
```