TÖL303G Gagnasafnsfræði

Verkefni 8

Hjörvar Sigurðsson

1. <u>Kóði:</u>

```
ackage V8;
       catch (SQLException e) {
   public static void disconnect() {
               conn.close();
```

```
*/
public static void meanSalaryOfAllEmployees() {
    String sql = "SELECT AVG(Salary) FROM EMPLOYEE";

    try {
        if (conn != null) {
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery(sql);

        while (rs.next()) {
            System.out.println(rs.getDouble("AVG(Salary)"));
        }
      }
    }
    catch (SQLException e) {
        System.out.println(e);
    }
}

public static void main(String[] args) {
        connect(); // Tengist gagnagrunni og prenta út skilaboð þess eðlis.
        meanSalaryOfAllEmployees(); // Framkvæmi sql statement-ið og prenta út útkomuna.
        disconnect(); // Aftengist gagnagrunni og prenta út skilaboð þess eðlis.
        }
}
```

Útkoma keyrslu:

Tenging við gagnagrunn stofnuð. 35125.0 Tenging við gagnagrunn rofin.

2. Kóði:

```
conn.close();
            System.out.println("Tenging við gagnagrunn rofin.");
       System.out.println(ex.getMessage());
public static void raiseAllSalaryBy200() {
```

```
ResultSet rs = stmt.executeQuery(SQLSelectSSN); //
              pstmt.executeUpdate(); // Uppfæri laun starfsmanns með
 catch (SQLException e) {
Fyrir keyrslu:
```

```
sqlite> SELECT Ssn, Salary FROM EMPLOYEE;
888665555|55000
333445555|40000
987654321|43000
123456789|30000
999887777|25000
666884444|38000
453453453|25000
987987987|25000
```

Eftir keyrslu:

```
sqlite> SELECT Ssn, Salary FROM EMPLOYEE;
888665555|55200
333445555|40200
987654321|43200
123456789|30200
999887777|25200
666884444|38200
453453453|25200
987987987|25200
```

3. Kóði:

```
catch (SQLException ex) {
       System.out.println(ex.getMessage());
public static void blanket3PercentRaise() {
```

Fyrir keyrslu:

```
sqlite> SELECT * FROM Employee;
Fname|Minit|Lname|Ssn|Bdate|Address|Sex|Salary|Super_ssn|Dno
James|E|Borg|888665555|1937-11-10|450 Stone, Houston, TX|M|55200||1
Franklin|T|Wong|333445555|1955-12-08|638 Voss, Houston, TX|M|40200|888665555|5
Jennifer|S|Wallace|987654321|1941-06-20|291 Berry, Bellaire, TX|F|43200|888665555|4
John|B|Smith|123456789|1965-01-09|731 Fondren, Houston, TX|M|30200|333445555|5
Alicia|J|Zelaya|999887777|1968-01-19|3321 Castle, Spring, TX|F|25200|987654321|4
Ramesh|K|Narayan|666884444|1962-09-15|975 Fire Oak, Humble, TX|M|38200|333445555|5
Joyce|A|English|453453453|1972-07-31|5631 Rice, Houston, TX|F|25200|987654321|4
Ahmad|V|Jabbar|987987987|1969-03-29|980 Dallas, Houston, TX|M|25200|987654321|4
```

Eftir keyrslu:

```
sqlite> SELECT * FROM Employee;
Fname|Minit|Lname|Ssn|Bdate|Address|Sex|Salary|Super_ssn|Dno
James|E|Borg|888665555|1937-11-10|450 Stone, Houston, TX|M|56856||1
Franklin|T|Wong|333445555|1955-12-08|638 Voss, Houston, TX|M|41406|888665555|5
Jennifer|S|Wallace|987654321|1941-06-20|291 Berry, Bellaire, TX|F|44496|888665555|4
John|B|Smith|123456789|1965-01-09|731 Fondren, Houston, TX|M|31106|333445555|5
Alicia|J|Zelaya|999887777|1968-01-19|3321 Castle, Spring, TX|F|25956|987654321|4
Ramesh|K|Narayan|666884444|1962-09-15|975 Fire Oak, Humble, TX|M|39346|333445555|5
Joyce|A|English|453453453|1972-07-31|5631 Rice, Houston, TX|F|25956|333445555|5
Ahmad|V|Jabbar|987987987|1969-03-29|980 Dallas, Houston, TX|M|25956|987654321|4
```

4. <u>Keyrsla forritsins JDBC1.java:</u>

Enter a Social Security Number: 888665555 Borg 56856.0

Keyrsla V8a:

```
Tenging við gagnagrunn stofnuð.
36384.75
Tenging við gagnagrunn rofin.
Disconnected from the target VM, address: '127.0.0.1:52583', transport: 'socket'
Process finished with exit code 0
```