

Heimadæmi – vikublað 8

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1.

```
25     try
26     {
27         // create a database connection
28         connection = DriverManager.getConnection("jdbc:sqlite:company.db");
29         Statement statement = connection.createStatement();
30         //statement.setQueryTimeout(30); // set timeout to 30 sec.
31
32         //statement.executeUpdate("drop table if exists person");
33         //statement.executeUpdate("create table person (id integer, name string)");
34         //statement.executeUpdate("insert into person values(1, 'leo')");
35         //statement.executeUpdate("insert into person values(2, 'yui')");
36         ResultSet rs = statement.executeQuery("select sum(salary) from employee;");
37         while(rs.next())
38         {
39             // read the result set
40             System.out.println("salary = " + rs.getString("sum(salary)"));
41             //System.out.println("id = " + rs.getInt("id"));
42         }
43         rs.close();
44     }
```

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8a
salary = 281000
```

2.

```
25     try
26     {
27         // create a database connection
28         connection = DriverManager.getConnection("jdbc:sqlite:company.db");
29         Statement statement = connection.createStatement();
30         //statement.setQueryTimeout(30); // set timeout to 30 sec.
31
32         //statement.executeUpdate("drop table if exists person");
33         //statement.executeUpdate("create table person (id integer, name string)");
34         //statement.executeUpdate("insert into person values(1, 'leo')");
35         //statement.executeUpdate("insert into person values(2, 'yui')");
36         statement.executeUpdate("update employee set salary = salary * 1.05;");
37         ResultSet rs = statement.executeQuery("select sum(salary) from employee;");
38         while(rs.next())
39         {
40             // read the result set
41             System.out.println("salary = " + rs.getString("sum(salary)"));
42             //System.out.println("id = " + rs.getInt("id"));
43         }
44         rs.close();
45     }
```

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8b
salary = 309802.5
```

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8b
salary = 325292.625
```

3.

```
25     try
26     {
27         // create a database connection
28         connection = DriverManager.getConnection("jdbc:sqlite:company.db");
29         Statement statement = connection.createStatement();
30         //statement.setQueryTimeout(30); // set timeout to 30 sec.
31
32         //statement.executeUpdate("drop table if exists person");
33         //statement.executeUpdate("create table person (id integer, name string)");
34         //statement.executeUpdate("insert into person values(1, 'leo')");
35         //statement.executeUpdate("insert into person values(2, 'yui')");
36         statement.executeUpdate("update employee set salary = salary + 100");
37         ResultSet rs = statement.executeQuery("select Fname, salary from employee;");
38         while(rs.next())
39         {
40             // read the result set
41             System.out.println("name, salary = " + rs.getString("Fname")+ " " + rs.getString("salary"));
42             //System.out.println("id = " + rs.getInt("id"));
43         }
44         rs.close();
45     }
```

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8c
name, salary = James 55100
name, salary = Franklin 40100
name, salary = Jennifer 43100
name, salary = John 30100
name, salary = Alicia 25100
name, salary = Ramesh 38100
name, salary = Joyce 25100
name, salary = Ahmad 25100
```

4.

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8a
salary = 281000

C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8b
salary = 295050

C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8c
name, salary = James 57850
name, salary = Franklin 42100
name, salary = Jennifer 45250
name, salary = John 31600
name, salary = Alicia 26350
name, salary = Ramesh 40000
name, salary = Joyce 26350
name, salary = Ahmad 26350
```

Meðaltal launa:

```
25     try
26     {
27         // create a database connection
28         connection = DriverManager.getConnection("jdbc:sqlite:company.db");
29         Statement statement = connection.createStatement();
30         //statement.setQueryTimeout(30); // set timeout to 30 sec.
31
32         //statement.executeUpdate("drop table if exists person");
33         //statement.executeUpdate("create table person (id integer, name string)");
34         //statement.executeUpdate("insert into person values(1, 'leo')");
35         //statement.executeUpdate("insert into person values(2, 'yui')");
36         //statement.executeUpdate("update employee set salary = salary + 100");
37         ResultSet rs = statement.executeQuery("select sum(salary)/count(salary) as average from employee;");
38         while(rs.next())
39         {
40             // read the result set
41
42             System.out.println("average salary = " + rs.getString("average"));
43             //System.out.println("id = " + rs.getInt("id"));
44         }
45         rs.close();
46     }
```

Fyrir keyrslu á v8a, v8b og v8c:

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8d
average salary = 35125
```

Eftir keyrslu á v8a, v8b, og v8c:

```
C:\Users\addi\Desktop\Háskóli\onn 3\Gagnasafnsfraedi\Heimadaemi 8>java -cp .;sqlite-jdbc-3.18.0.jar v8d
average salary = 36981
```