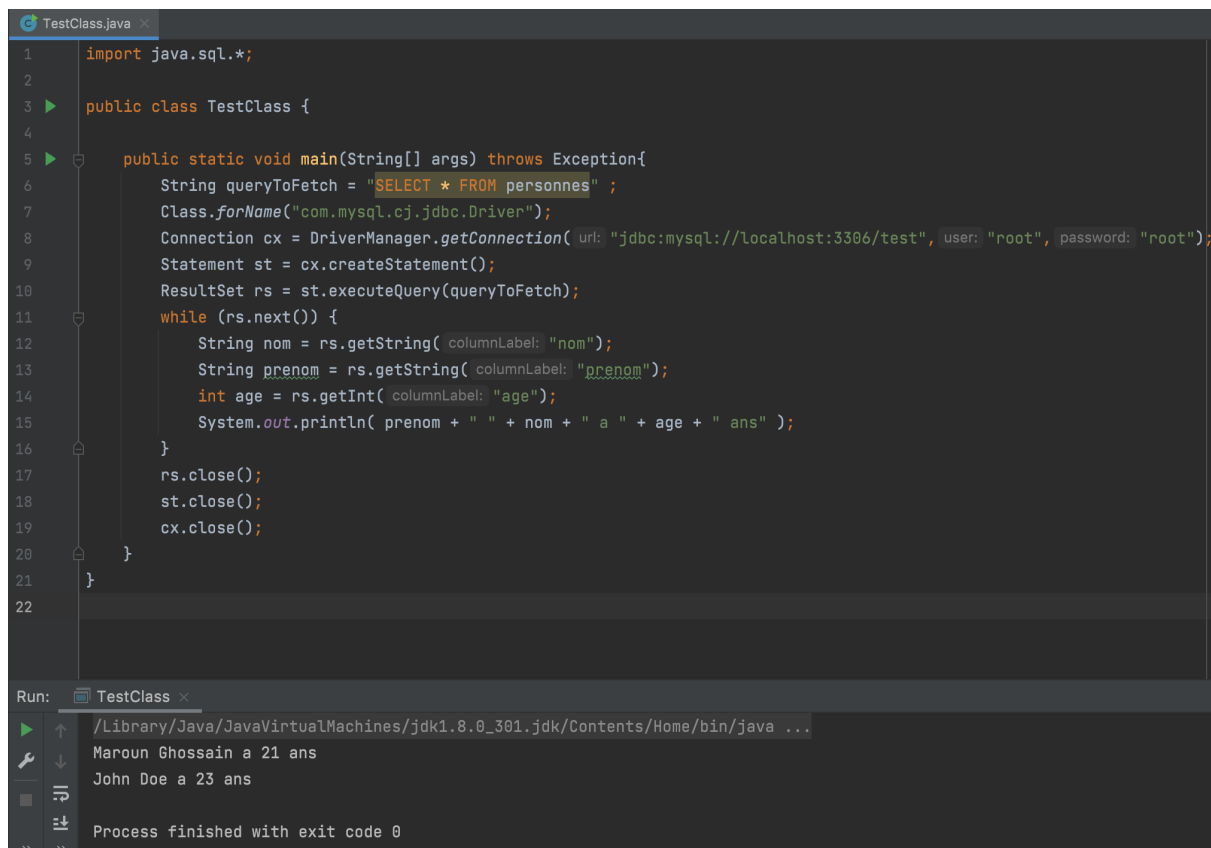


Rendu JDBC

On a une base donnee appelee test qui contient une table personnes. Cette table contient les informations suivant :

```
[mysql> select * from personnes ;  
+-----+-----+-----+  
| nom      | prenom | age  |  
+-----+-----+-----+  
| Ghossain | Maroun | 21   |  
| Doe      | John   | 23   |  
+-----+-----+-----+  
2 rows in set (0.00 sec)
```

Apres avoir installe le mysql-connector jar file, on a connecte notre base de donnee. Comme on peut voir dans le terminal on recoit les donnees correctes.



```
1 import java.sql.*;
2
3 public class TestClass {
4
5     public static void main(String[] args) throws Exception{
6         String queryToFetch = "SELECT * FROM personnes" ;
7         Class.forName("com.mysql.cj.jdbc.Driver");
8         Connection cx = DriverManager.getConnection( url: "jdbc:mysql://localhost:3306/test", user: "root", password: "root");
9         Statement st = cx.createStatement();
10        ResultSet rs = st.executeQuery(queryToFetch);
11        while (rs.next()) {
12            String nom = rs.getString( columnLabel: "nom");
13            String prenom = rs.getString( columnLabel: "prenom");
14            int age = rs.getInt( columnLabel: "age");
15            System.out.println( prenom + " " + nom + " a " + age + " ans" );
16        }
17        rs.close();
18        st.close();
19        cx.close();
20    }
21 }
22
```

Run: TestClass

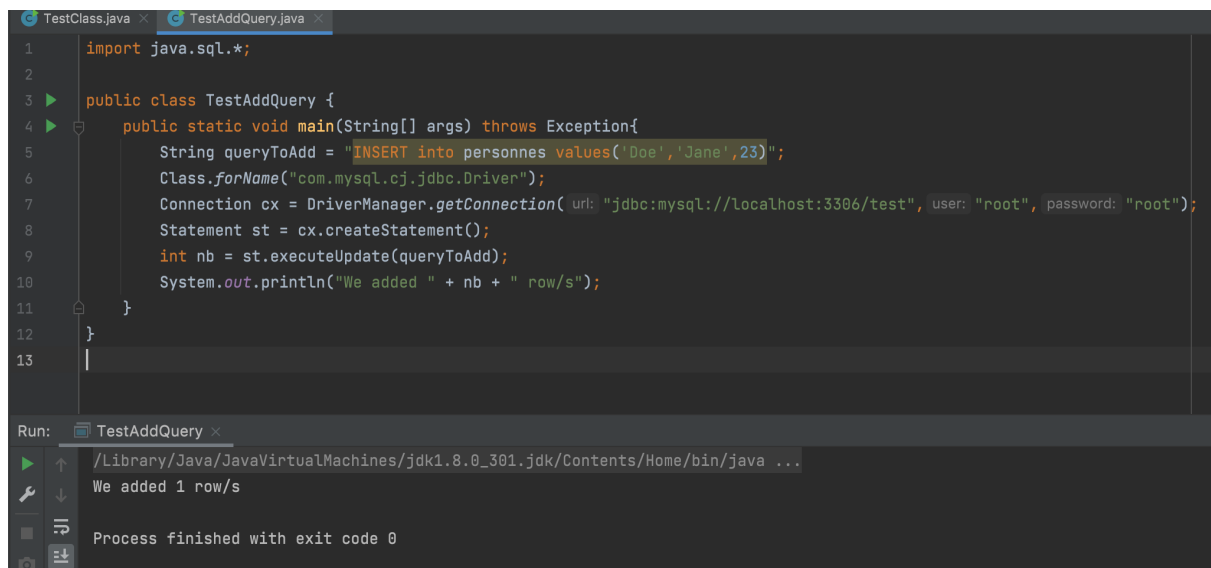
/Library/Java/JavaVirtualMachines/jdk1.8.0_301.jdk/Contents/Home/bin/java ...

Maroun Ghossain a 21 ans

John Doe a 23 ans

Process finished with exit code 0

Ce code nous permet d'ajouter une ligne a notre table.



```
1 import java.sql.*;
2
3 public class TestAddQuery {
4
5     public static void main(String[] args) throws Exception{
6         String queryToAdd = "INSERT into personnes values('Doe','Jane',23)";
7         Class.forName("com.mysql.cj.jdbc.Driver");
8         Connection cx = DriverManager.getConnection( url: "jdbc:mysql://localhost:3306/test", user: "root", password: "root");
9         Statement st = cx.createStatement();
10        int nb = st.executeUpdate(queryToAdd);
11        System.out.println("We added " + nb + " row/s");
12    }
13 }

```

Run: TestAddQuery

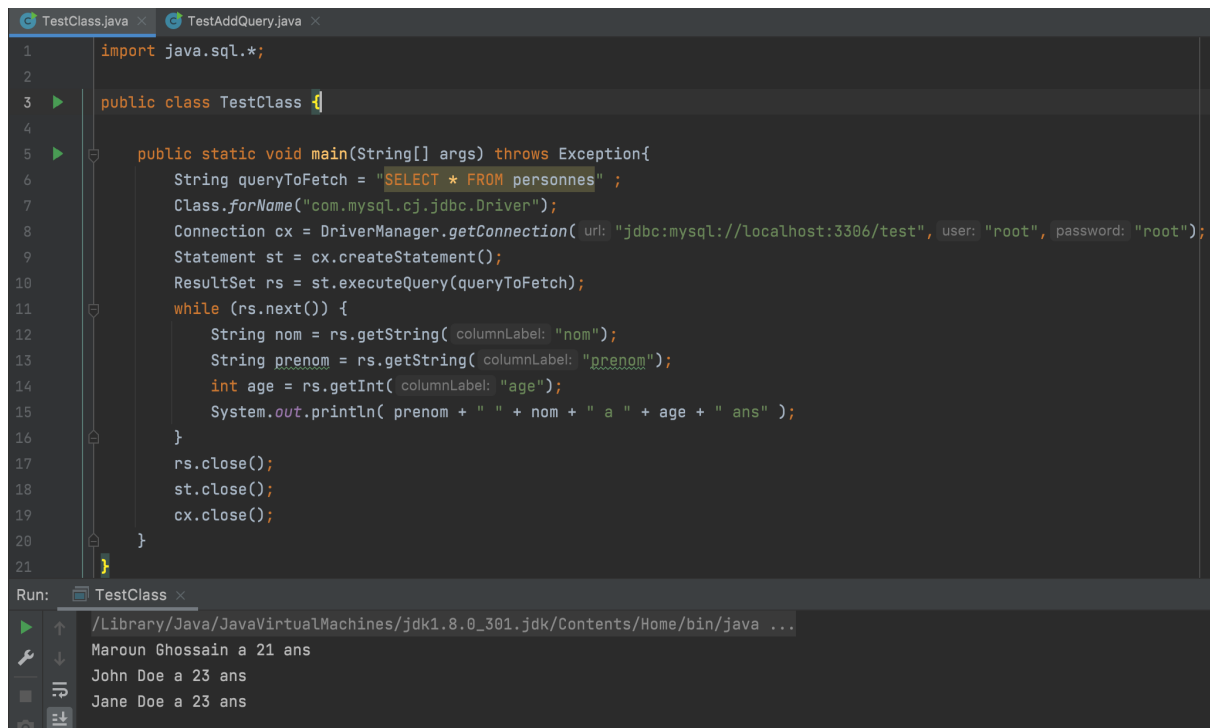
/Library/Java/JavaVirtualMachines/jdk1.8.0_301.jdk/Contents/Home/bin/java ...

We added 1 row/s

Process finished with exit code 0

On refait run a notre code qui possede la requete "Select * From personnes" et on peut voire dans notre terminal que notre table a ete modifiee et contient maintenant

la ligne ajoutée.



The screenshot shows an IDE with two tabs: TestClass.java and TestAddQuery.java. The TestClass.java file contains the following code:

```
1 import java.sql.*;
2
3 public class TestClass {
4
5     public static void main(String[] args) throws Exception{
6         String queryToFetch = "SELECT * FROM personnes" ;
7         Class.forName("com.mysql.cj.jdbc.Driver");
8         Connection cx = DriverManager.getConnection( url: "jdbc:mysql://localhost:3306/test", user: "root", password: "root");
9         Statement st = cx.createStatement();
10        ResultSet rs = st.executeQuery(queryToFetch);
11        while (rs.next()) {
12            String nom = rs.getString( columnLabel: "nom");
13            String prenom = rs.getString( columnLabel: "prenom");
14            int age = rs.getInt( columnLabel: "age");
15            System.out.println( prenom + " " + nom + " a " + age + " ans" );
16        }
17        rs.close();
18        st.close();
19        cx.close();
20    }
21 }
```

The Run console shows the output of the program:

```
Run: TestClass x
/Library/Java/JavaVirtualMachines/jdk1.8.0_301.jdk/Contents/Home/bin/java ...
Maroun Ghossain a 21 ans
John Doe a 23 ans
Jane Doe a 23 ans
```

```
mysql> select * from personnes ;
+-----+-----+-----+
| nom      | prenom | age  |
+-----+-----+-----+
| Ghossain | Maroun | 21   |
| Doe      | John   | 23   |
| Doe      | Jane   | 23   |
+-----+-----+-----+
3 rows in set (0.00 sec)
```