CHANDIGARH UNIVERSITY
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NAAC GRADE A+
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Advanced Internet Programming Lab

Subject Code:22CAP-686

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UID: 22MCC20039 **Date of Performance:03/04/2023**

Semester: II

Experiment No. 2.1

1. Aim/Overview of the practical:

Implement database connectivity to perform CRUD commands in server-side applications.

To create a Servlet file that contains the following functions.

Connect, Create Database, Create Table, Insert Records into the respective table, Update records of the particular table of the database, Delete Records from the table, Delete table and database.

2. Code: Insert Record, Update record, Delete Record (rahul.java)

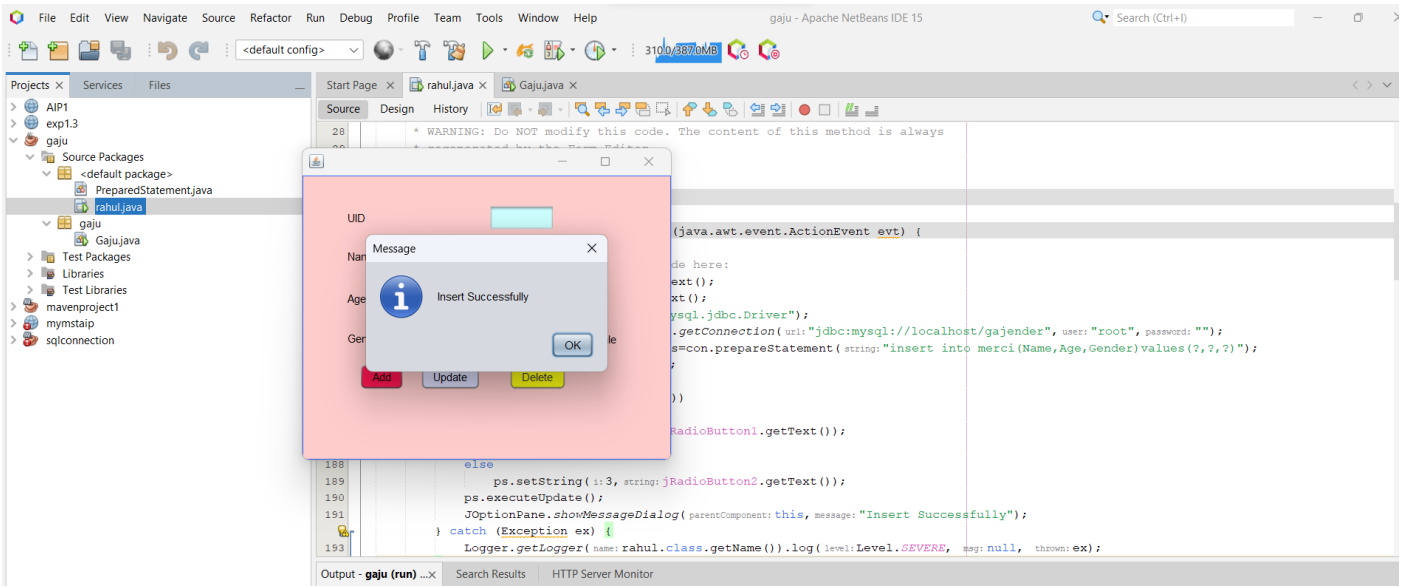
Import package:

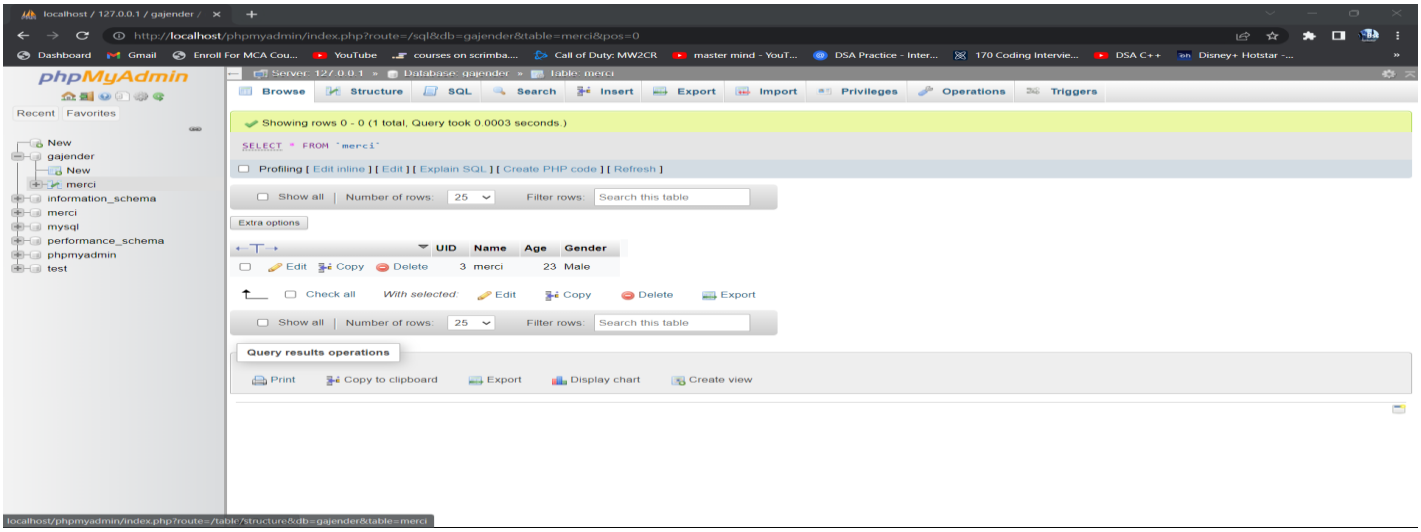
```
import java. util. logging. Level;
import java. util. logging. Logger;
import java.sql. Connection;
import java.sql. DriverManager;
import javax. swing.JOptionPane;
```

Insert(code):

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try {
      // TODO add your handling code here:
      String Name=jTextField2.getText();
      String Age=jTextField3.getText();
      Class.forName("com.mysql.jdbc.Driver");
      Connection con=DriverManager.getConnection("jdbc:mysql://localhost/gajender","root","");
      java.sql.PreparedStatement ps=con.prepareStatement("insert into merci(Name,Age,Gender)values(?,?,?)");
      ps.setString(1,Name);
      ps.setString(2,Age);
      if(jRadioButton1.isSelected())
      {
```

```
            ps.setString(3,jRadioButton1.getText());
        }
        else
            ps.setString(3,jRadioButton2.getText());
        ps.executeUpdate();
        JOptionPane.showMessageDialog(this,"Insert Successfully");
    } catch (Exception ex) {
        Logger.getLogger(rahul.class.getName()).log(Level.SEVERE, null, ex);
    }
```

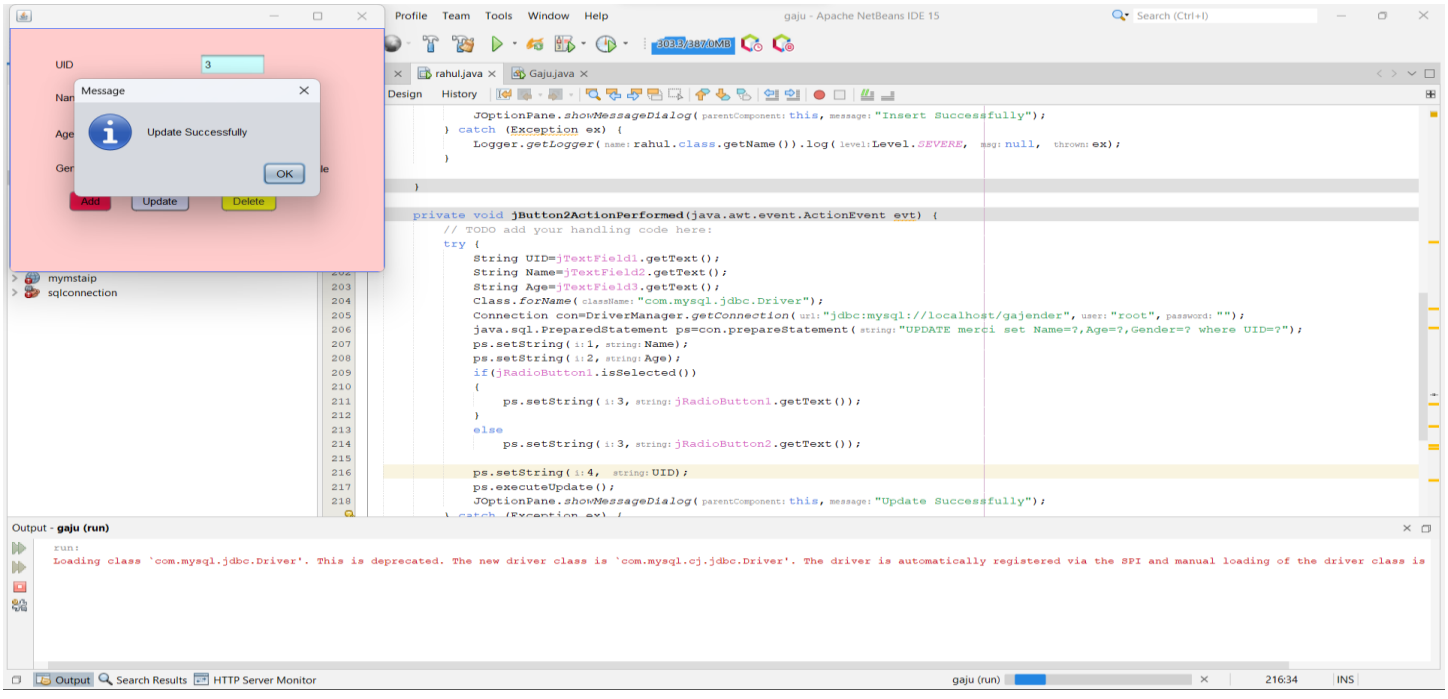


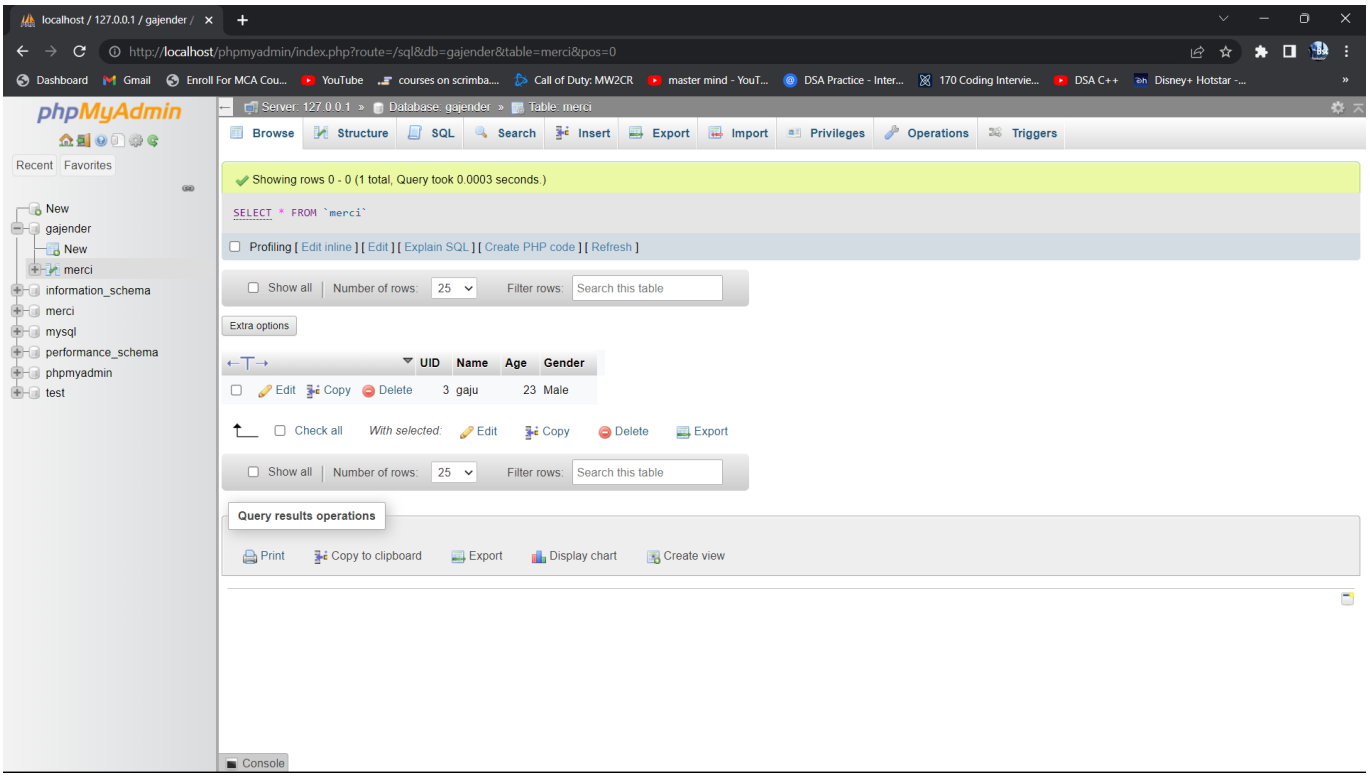


Update(code):

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try {
      String UID=jTextField1.getText();
      String Name=jTextField2.getText();
      String Age=jTextField3.getText();
      Class.forName("com.mysql.jdbc.Driver");
      Connection con=DriverManager.getConnection("jdbc:mysql://localhost/gajender","root","");
      java.sql.PreparedStatement ps=con.prepareStatement("UPDATE merci set Name=?,Age=?,Gender=? where
UID=?");
      ps.setString(1,Name);
      ps.setString(2,Age);
      if(jRadioButton1.isSelected())
      {
        ps.setString(3,jRadioButton1.getText());
      }
      else
        ps.setString(3,jRadioButton2.getText());

      ps.setString(4, UID);
      ps.executeUpdate();
      JOptionPane.showMessageDialog(this,"Update Successfully");
    } catch (Exception ex) {
      Logger.getLogger(rahul.class.getName()).log(Level.SEVERE, null, ex);
    }
```



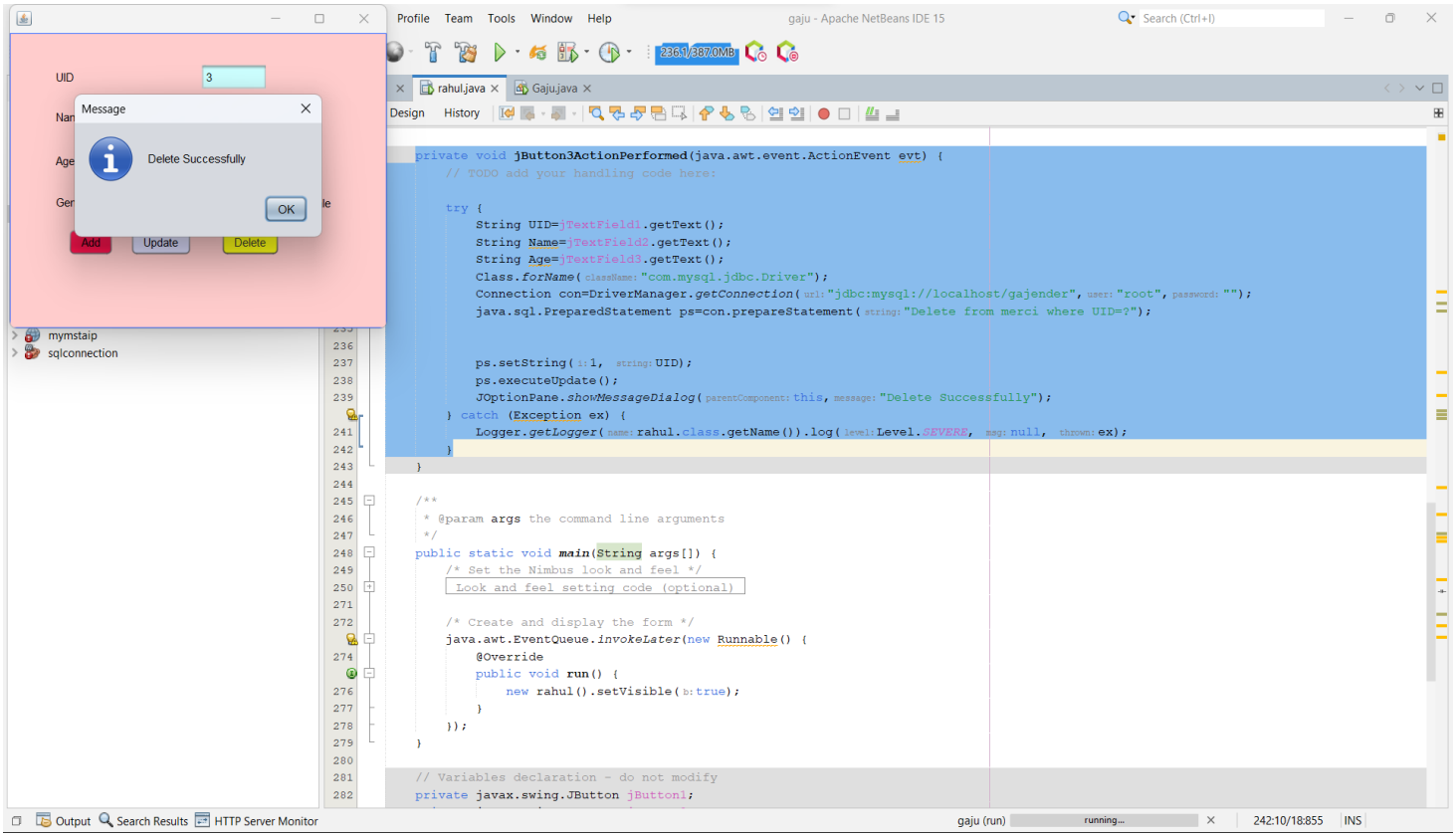


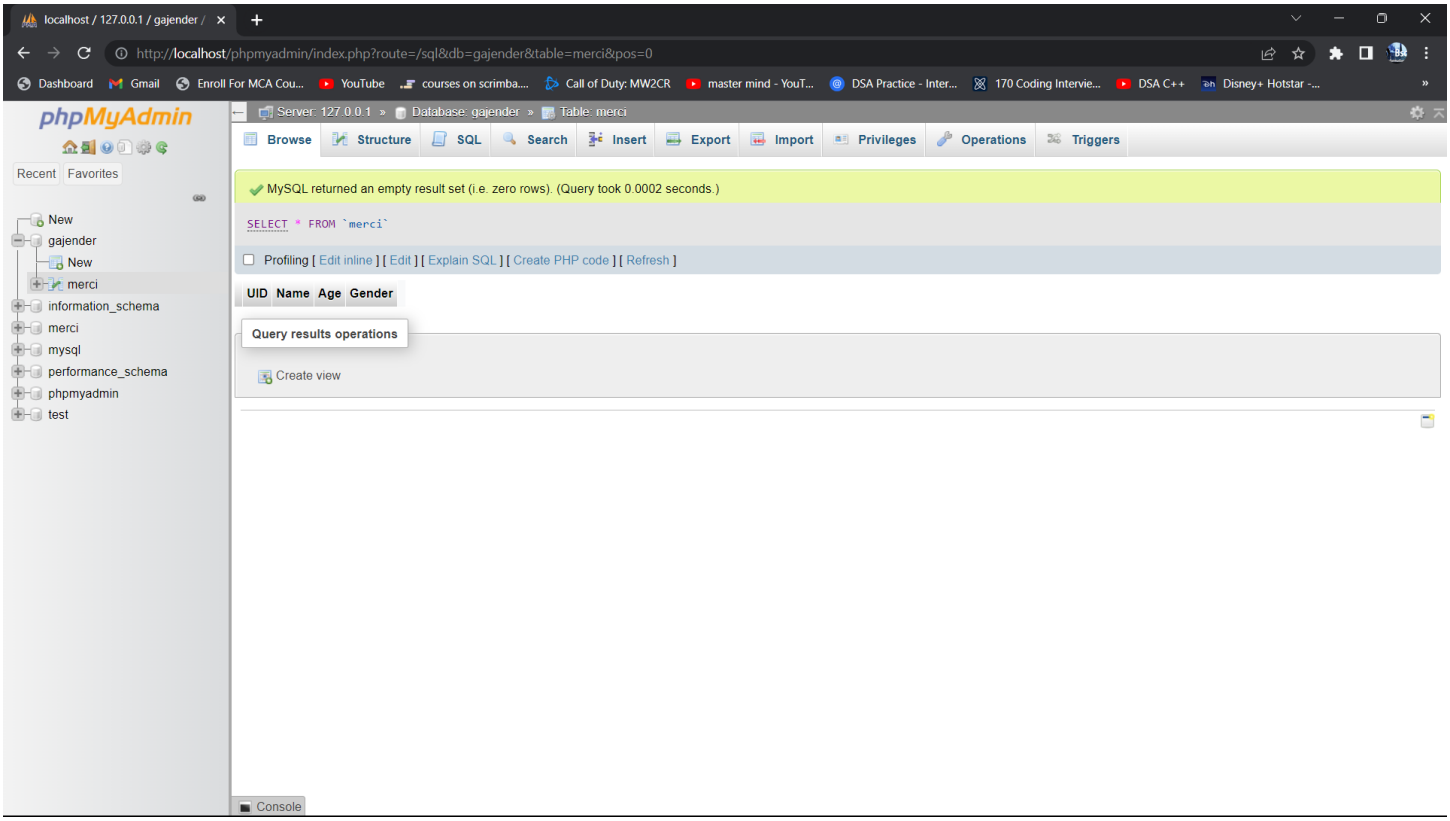
Delete(code):

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    try {
       String UID=jTextField1.getText();
       String Name=jTextField2.getText();
       String Age=jTextField3.getText();
       Class.forName("com.mysql.jdbc.Driver");
       Connection con=DriverManager.getConnection("jdbc:mysql://localhost/gajender","root","");
       java.sql.PreparedStatement ps=con.prepareStatement("Delete from merci where UID=?");


       ps.setString(1, UID);
       ps.executeUpdate();
       JOptionPane.showMessageDialog(this,"Delete Successfully");
    } catch (Exception ex) {
       Logger.getLogger(rahul.class.getName()).log(Level.SEVERE, null, ex);
    }
```


UID
3
Message
Delete Successfully
OK
Add
Update
Delete
mymstaip
sqlconnection
Profile Team Tools Window Help
gaju - Apache NetBeans IDE 15
rahul.java
Gaju.java
Design History
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
try {
String UID=jTextField1.getText();
String Name=jTextField2.getText();
String Age=jTextField3.getText();
Class.forName("com.mysql.jdbc.Driver");
Connection con=DriverManager.getConnection("jdbc:mysql://localhost/gajender", "root", "");
java.sql.PreparedStatement ps=con.prepareStatement("Delete from merci where UID=?");
ps.setString(1, UID);
ps.executeUpdate();
JOptionPane.showMessageDialog(this, "Delete Successfully");
} catch (Exception ex) {
Logger.getLogger(rahul.class.getName()).log(Level.SEVERE, null, ex);
}
}
/**
* @param args the command line arguments
*/
public static void main(String args[]) {
/* Set the Nimbus look and feel */
Look and feel setting code (optional)
/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
@Override
public void run() {
new rahul().setVisible(true);
}
});
}
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
Output
Search Results
HTTP Server Monitor
gaju (run)
running...
242:10/18:855
INS


localhost / 127.0.0.1 / gajender /
http://localhost/phpmyadmin/index.php?route=/sql&db=gajender&table=merci&pos=0
phpMyAdmin
Recent Favorites
New
gajender
New
merci
information_schema
merci
mysql
performance_schema
phpmyadmin
test
Server: 127.0.0.1 » Database: gajender » Table: merci
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)
SELECT * FROM `merci`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
UID Name Age Gender
Query results operations
Create view
Console