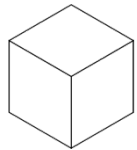


The **B**itmap **J**oin **I**ndex OLAP Tool

# Funcionalidades

- Construção do índice
- Consultas
- Operações OLAP
- Eliminação do índice

# Construção do índice



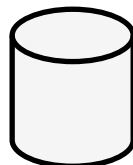
Mondrian Schema  
Workbench



BJIn OLAP



FastBit Software

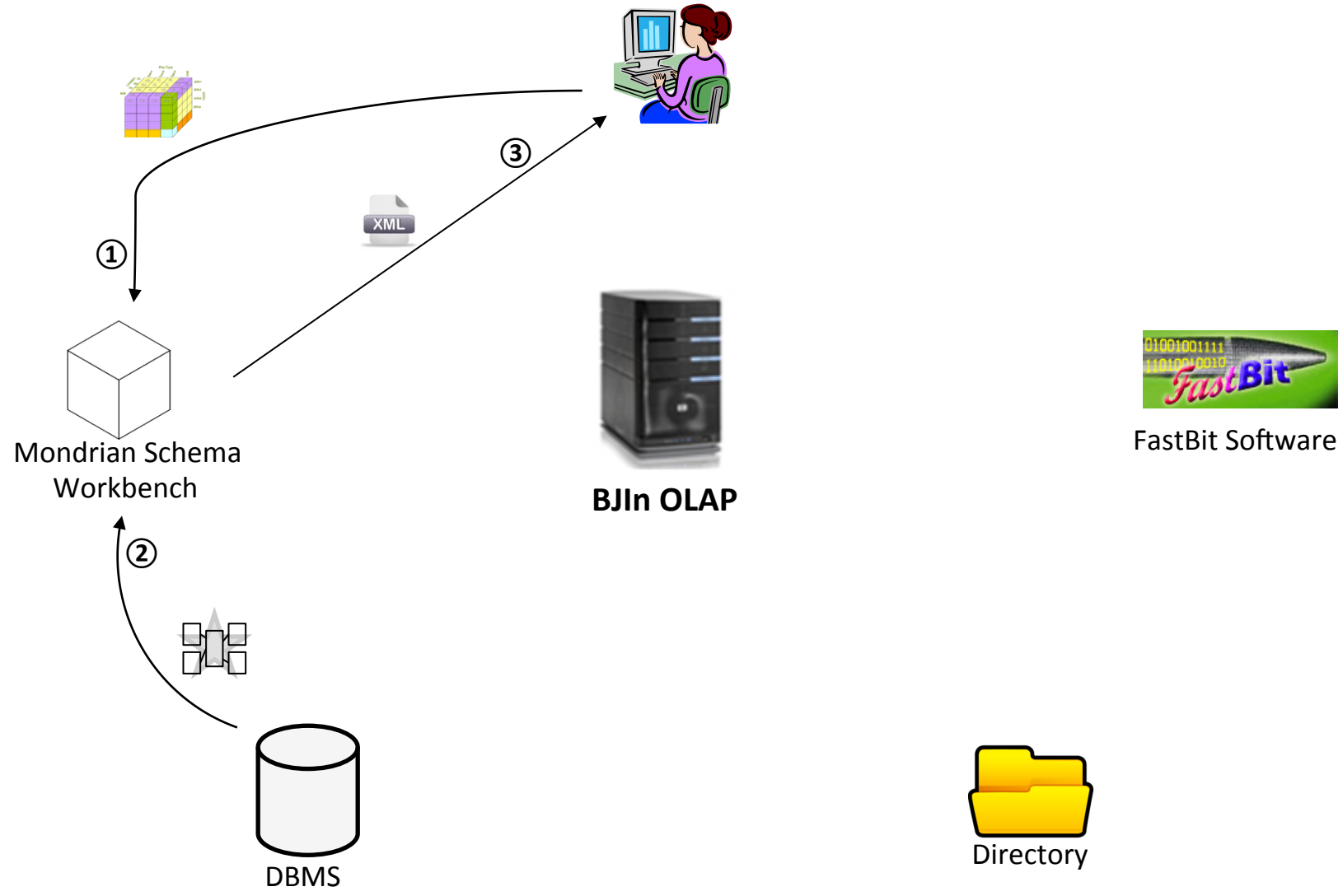


DBMS

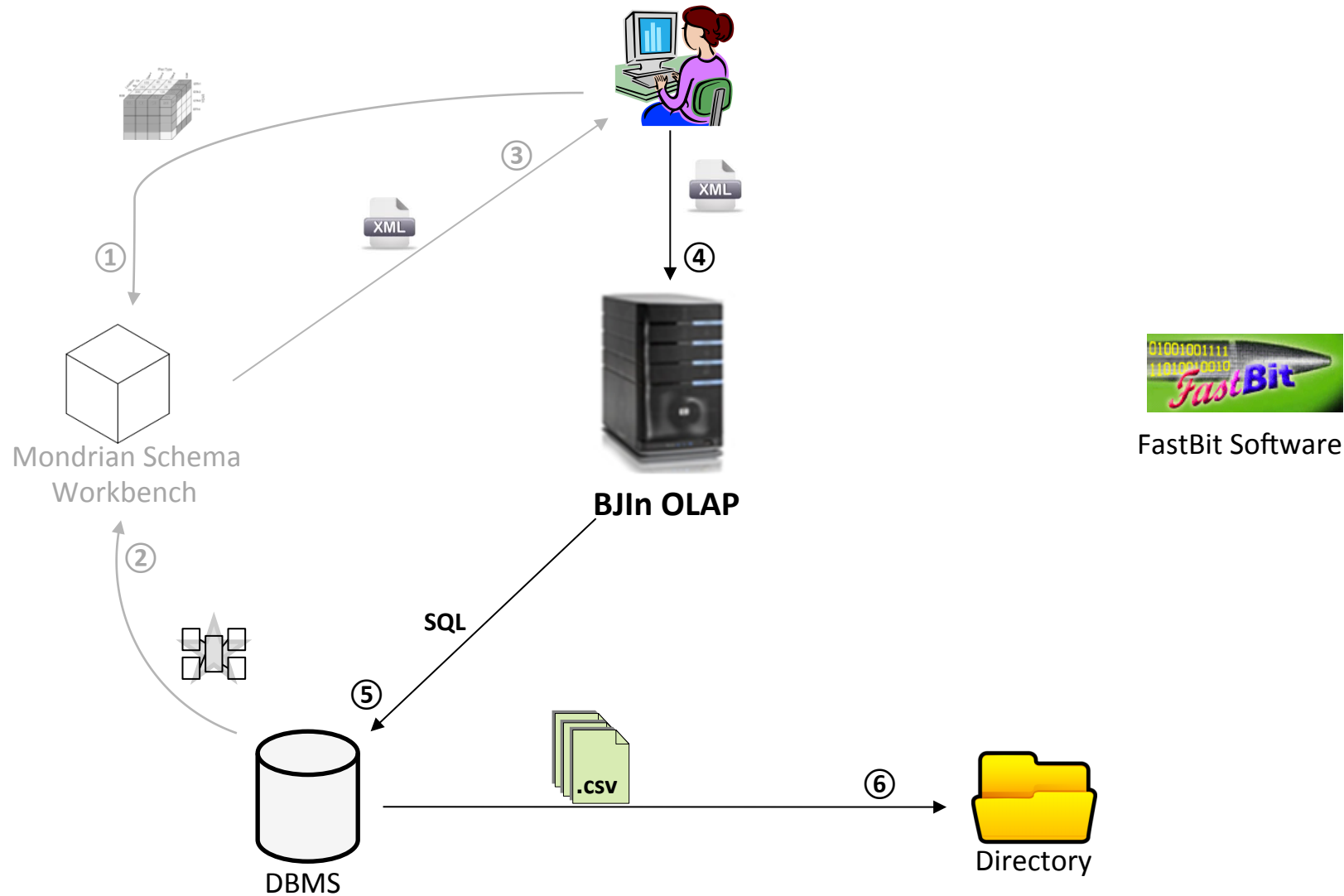


Directory

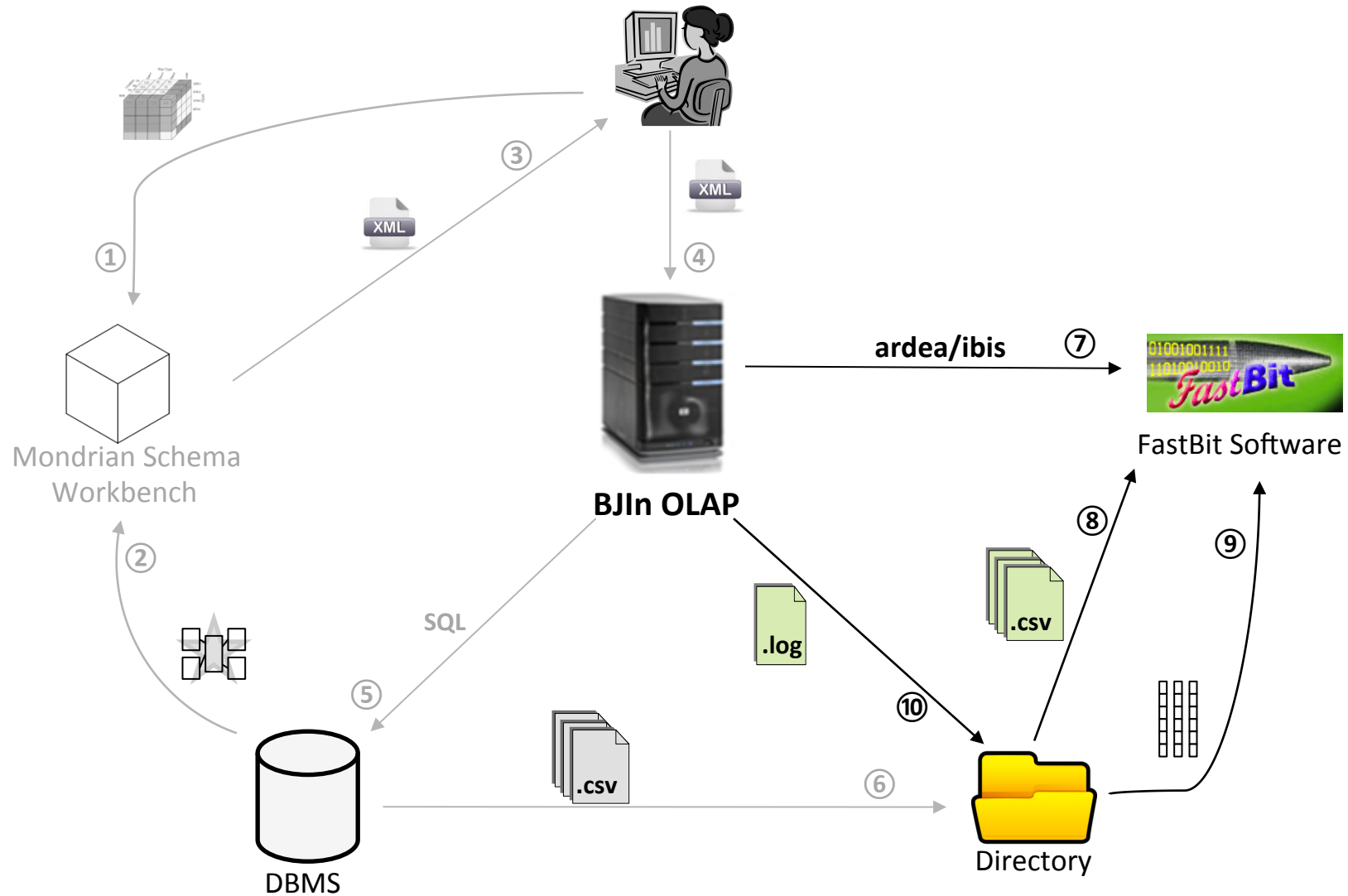
# Construção do índice



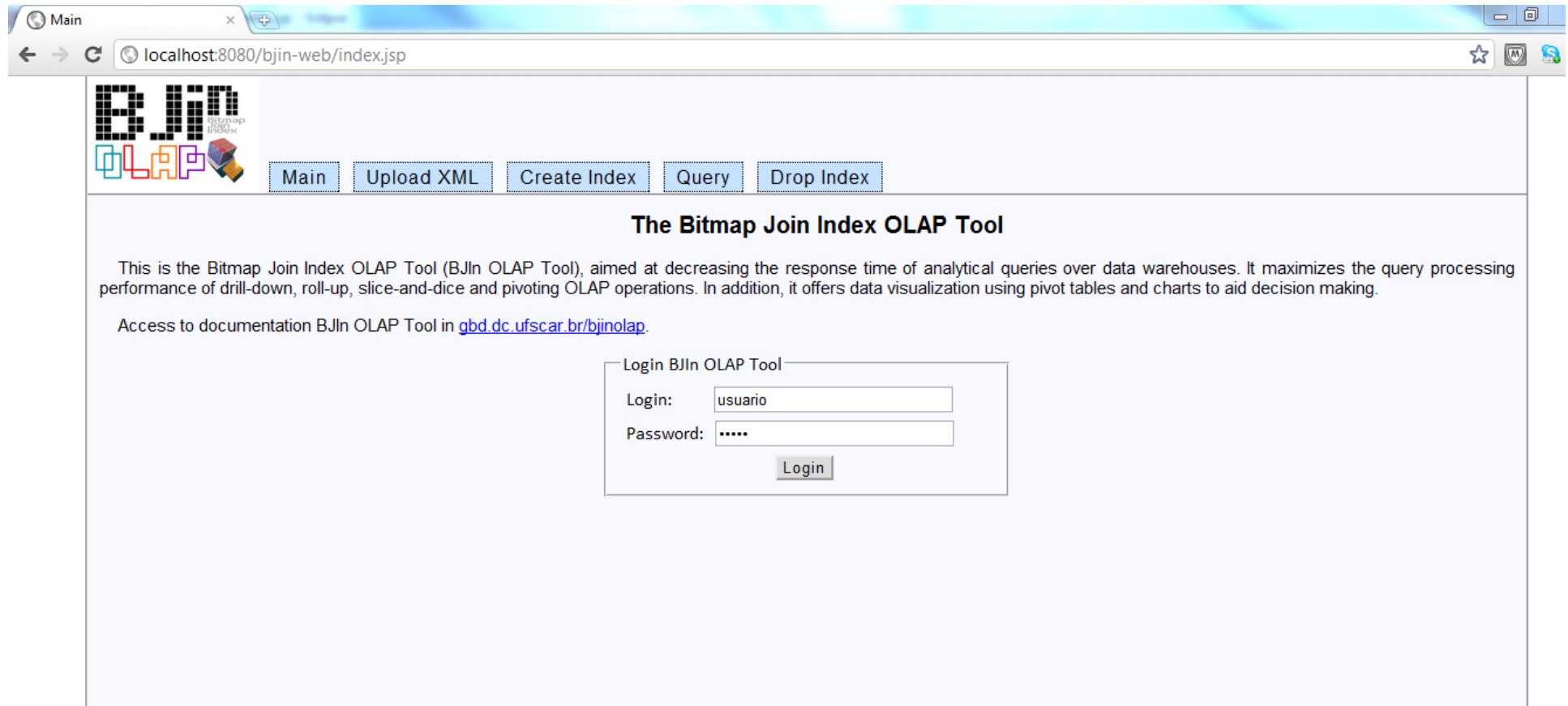
# Construção do índice



# Construção do índice



# Login



localhost:8080/bjin-web/index.jsp

**BJIn**  
OLAP

Main Upload XML Create Index Query Drop Index

### The Bitmap Join Index OLAP Tool

This is the Bitmap Join Index OLAP Tool (BJIn OLAP Tool), aimed at decreasing the response time of analytical queries over data warehouses. It maximizes the query processing performance of drill-down, roll-up, slice-and-dice and pivoting OLAP operations. In addition, it offers data visualization using pivot tables and charts to aid decision making.

Access to documentation BJIn OLAP Tool in [gbd.dc.ufscar.br/bjinolap](http://gbd.dc.ufscar.br/bjinolap).

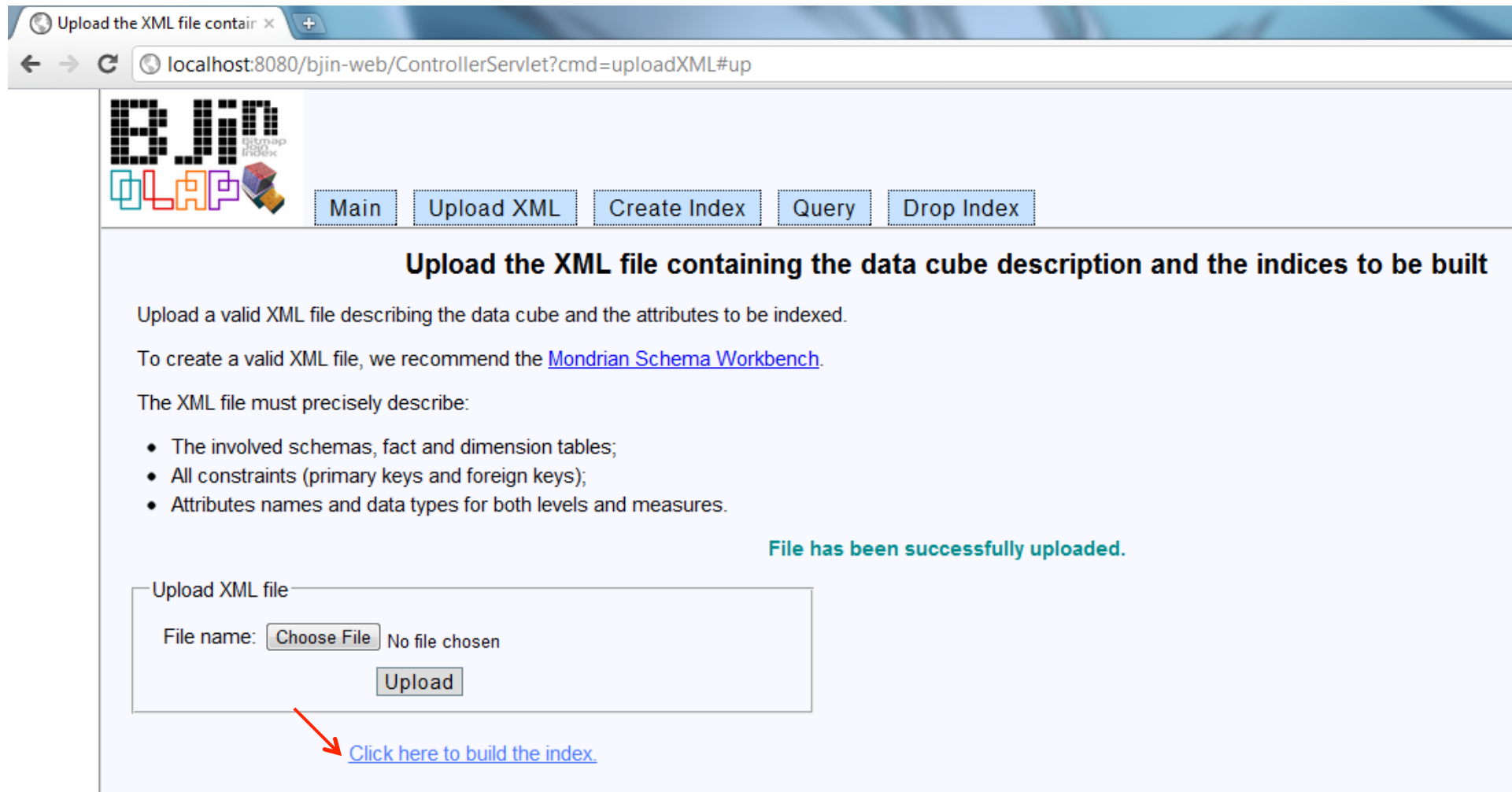
Login BJIn OLAP Tool

Login:

Password:

Login

# Etapas da construção do índice



The screenshot shows a web browser window with the address bar displaying `localhost:8080/bjin-web/ControllerServlet?cmd=uploadXML#up`. The page features a navigation menu with buttons for **Main**, **Upload XML**, **Create Index**, **Query**, and **Drop Index**. The main content area is titled "Upload the XML file containing the data cube description and the indices to be built". It provides instructions on how to create a valid XML file, recommending the [Mondrian Schema Workbench](#). A list of requirements for the XML file is provided:

- The involved schemas, fact and dimension tables;
- All constraints (primary keys and foreign keys);
- Attributes names and data types for both levels and measures.

A green message states: **File has been successfully uploaded.**

Below the message is a form titled "Upload XML file" containing a "File name:" label, a "Choose File" button, the text "No file chosen", and an "Upload" button. A red arrow points from the bottom of the form to a blue link: [Click here to build the index.](#)



# Etapas da construção do índice

Create Index

localhost:8080/bjin-web/create.jsp

Main Upload XML Create Index Query Drop Index

### Create Index

Select the XML file containing the description of your data cube and of the attributes to be indexed. If your file is not available, please [upload](#) it.

Give the index a name without spaces or special characters, then enter your database user role and the password.

If you want to build your index over the materialized view that answer your queries, please check the corresponding option and check the attributes to be indexed.\*

**\*This can provide even better query processing performance, but the index creation will take more time.**

Create Bitmap Join Index

Index description:

Index name:

DBMS User:

Password:

Create Index over the Materialized View

Create Index

Opcional

# Etapas da construção do índice

Create Index

Select the XML file containing the description of your data cube and of the attributes to be indexed. If your file is not available, please [upload](#) it.

Give the index a name without spaces or special characters, then enter your database user role and the password.

If you want to build your index over the materialized view that answer your queries, please check the corresponding option and check the attributes to be indexed.\*

**\*This can provide even better query processing performance, but the index creation will take more time.**

Create Bitmap Join Index

Index description:

Index name:

DBMS User:

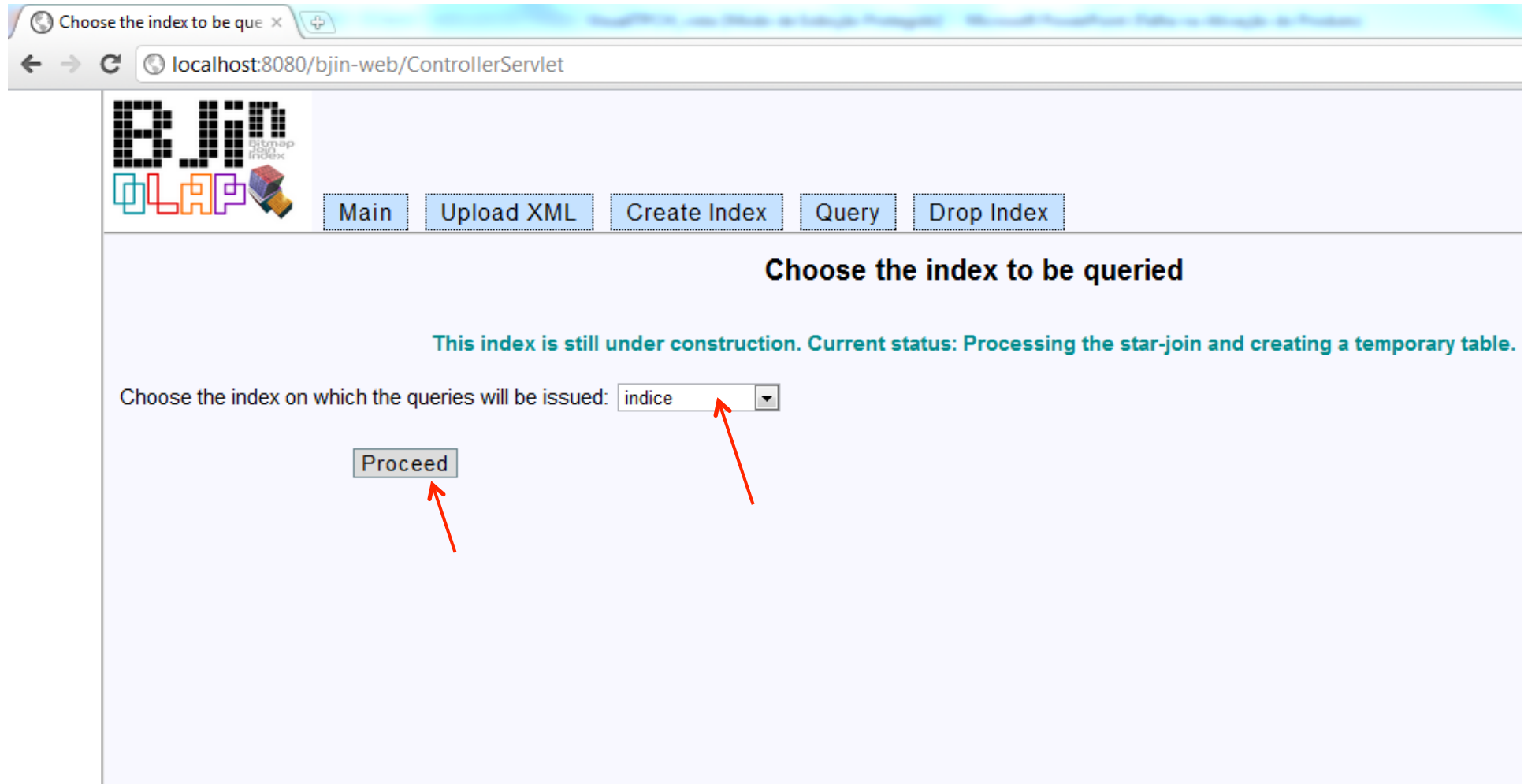
Password:

Create Index over the Materialized View

- lineorder
  - Date
    - Year
      - Supplier
        - Region
          - Nation
- Customer
  - Customer
    - Region
      - Nation

Selecionar atributos específicos da visão materializada

# Etapas da construção do índice



The screenshot shows a web browser window with the address bar displaying "localhost:8080/bjin-web/ControllerServlet". The page features a navigation menu with buttons for "Main", "Upload XML", "Create Index", "Query", and "Drop Index". The main content area is titled "Choose the index to be queried" and contains a status message: "This index is still under construction. Current status: Processing the star-join and creating a temporary table." Below this, there is a label "Choose the index on which the queries will be issued:" followed by a dropdown menu currently showing "indice". A "Proceed" button is located below the dropdown. Two red arrows point to the dropdown menu and the "Proceed" button.

Choose the index to be queried

This index is still under construction. Current status: Processing the star-join and creating a temporary table.

Choose the index on which the queries will be issued: indice

Proceed