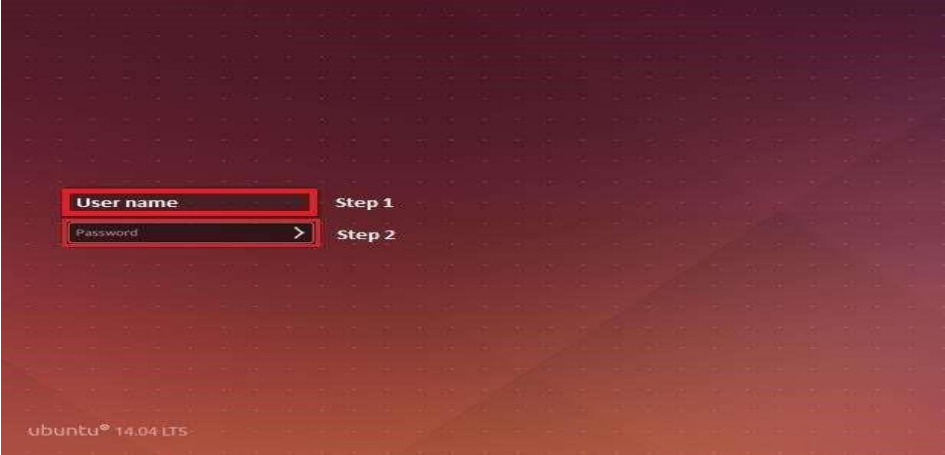


# KenyaEMR Data Tools Reporting

July 2023 Revision

Tasks:	Query Design Reporting Using KenyaEMR Data Tools
Objective:	To formulate Ad Hoc reports that aim to inform programming
Who:	EMR user
Required Materials:	Username, password, computer installed with KenyaEMR and data tools

STEP	ACTION
1.	<div data-bbox="175 611 1114 1062" data-label="Image">  </div> <p>Accessing KenyaEMR data tools</p>
	<p>Login to your Ubuntu Server</p> <p>Step 1: Enter the username for logging into the server            Step 2: Enter the password for logging into the server</p> <p>Click enter.</p>

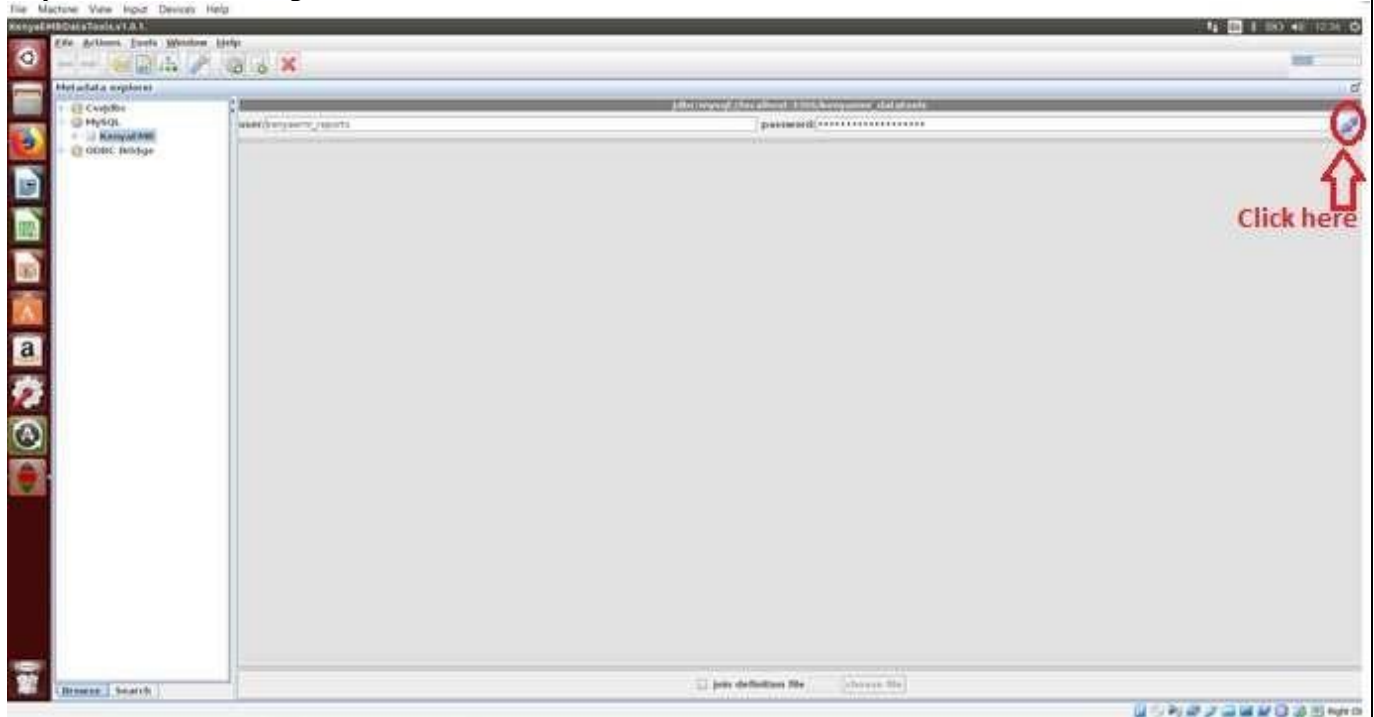
## 2. Ubuntu Desktop



Upon successful login, you shall be navigated to Linux home Page

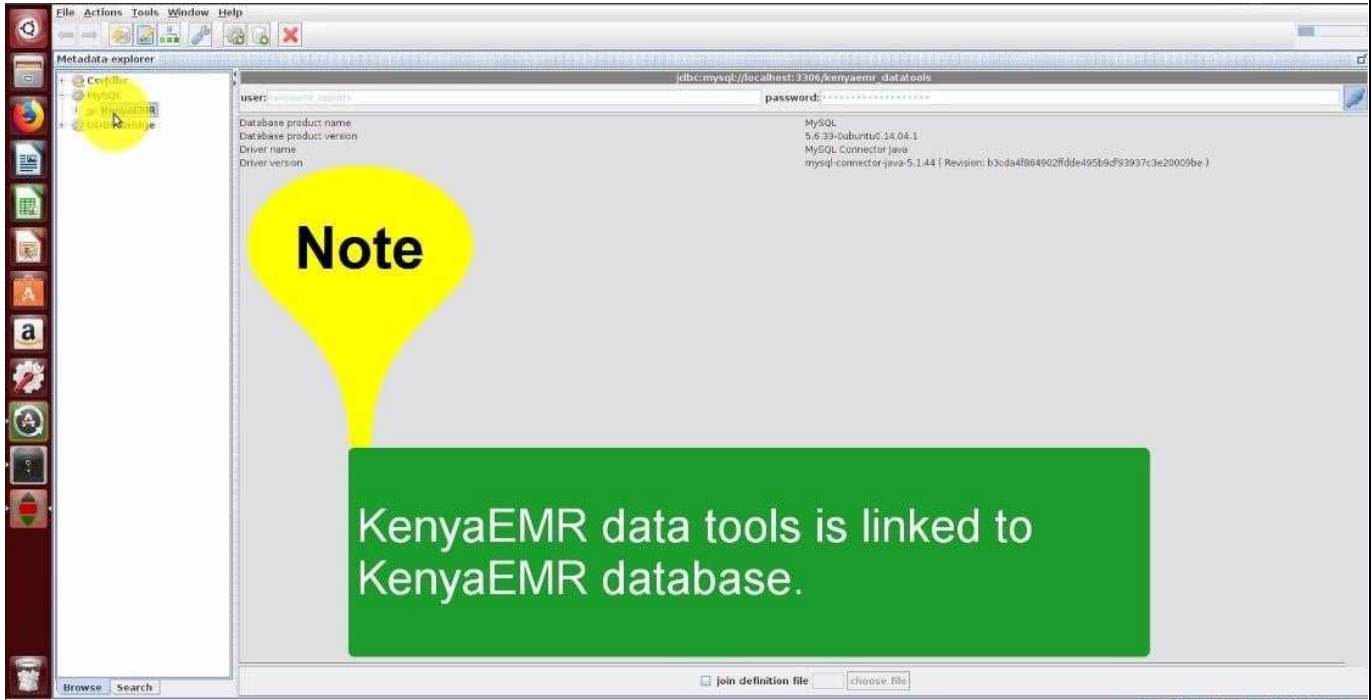
Double click “KenyaEMR Data Tools” icon

## 3. KenyaEMR Data tool Login



Login credentials: Username and password are programmed onto the instance “Click Login”

4. Successful KenyaEMR data tools access



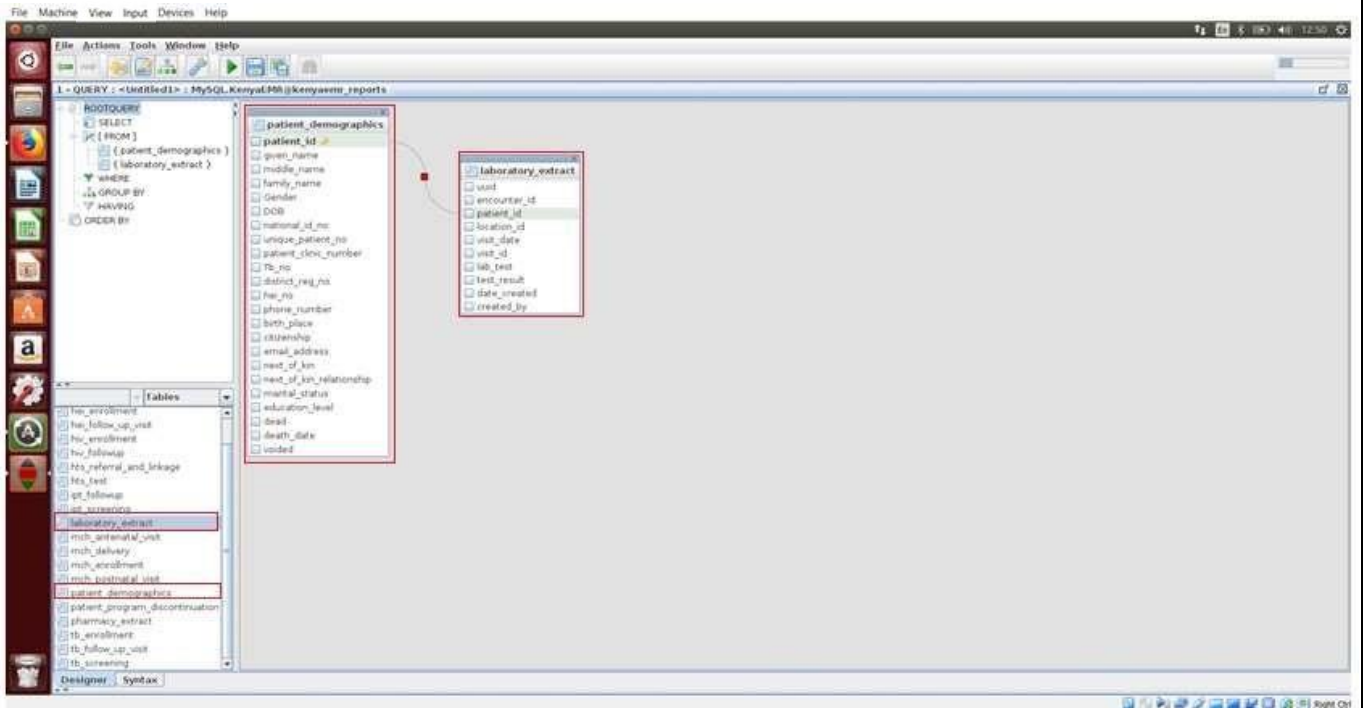
Confirmation of login: Database product name, database product version, driver name and version

5. Opening Query



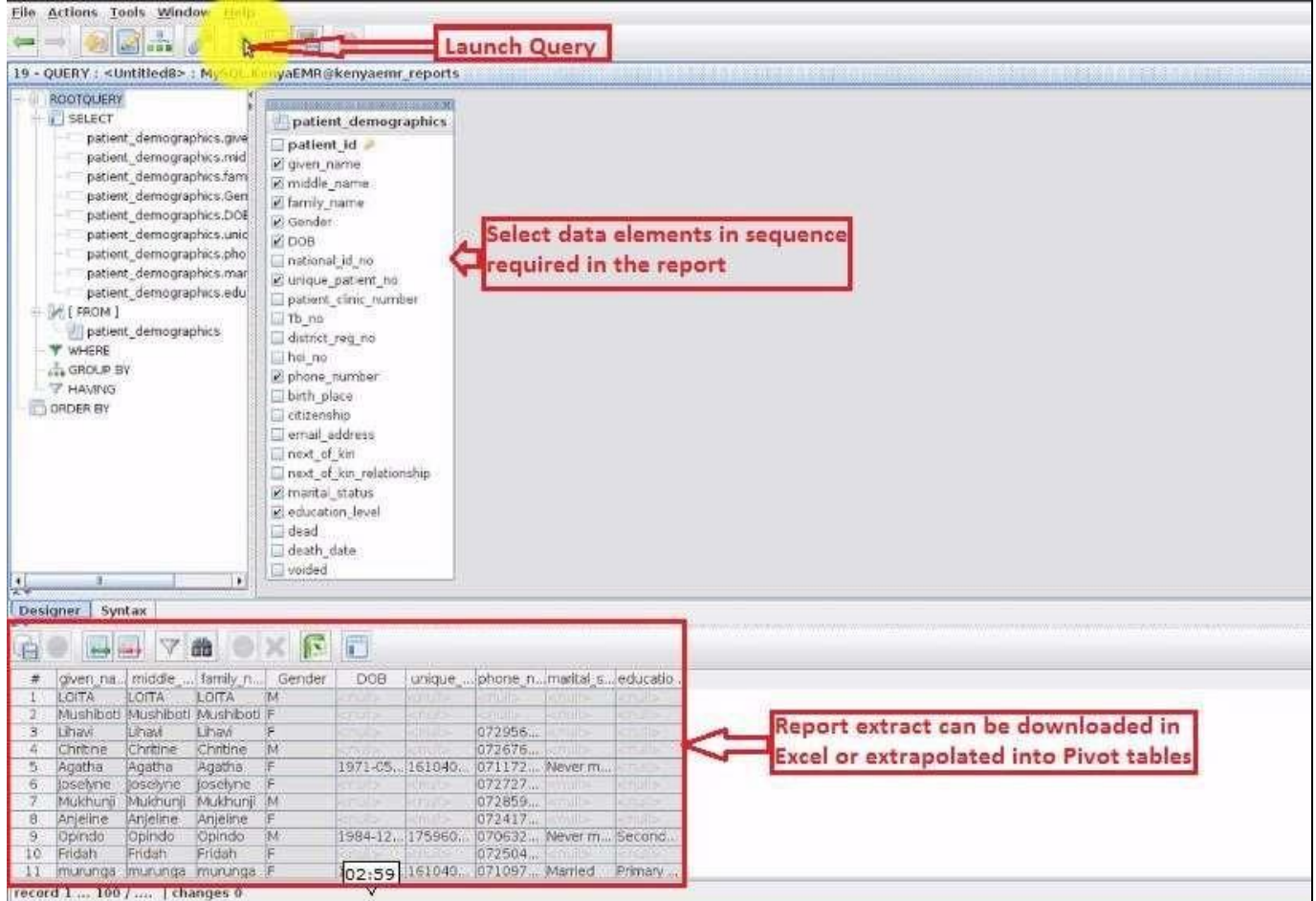
Click on the query icon to launch query tables, that will appear on the left lower panel

## 6. Launching query table



Double click query table to launch

7. Launching the report



The screenshot shows a query designer window with the following components:

- Menu Bar:** File, Actions, Tools, Window, Help. A red box highlights the 'Launch Query' icon in the 'Tools' menu.
- Query Title Bar:** 19 - QUERY : <Untitleddb> : MySQL\_KenyaEMR@kenyaemr\_reports
- Query Designer:**
  - ROOTQUERY:** SELECT
  - FROM:** patient\_demographics
  - WHERE:** (empty)
  - GROUP BY:** (empty)
  - HAVING:** (empty)
  - ORDER BY:** (empty)
- Data Elements List:** A list of fields from the 'patient\_demographics' table with checkboxes. A red box highlights the first six fields: patient\_id, given\_name, middle\_name, family\_name, Gender, and DOB. An arrow points to this list with the text: "Select data elements in sequence required in the report".
- Result Table:** A table with 11 rows of patient data. A red box highlights the table with an arrow pointing to it from the text: "Report extract can be downloaded in Excel or extrapolated into Pivot tables".

#	given na...	middle ...	family n...	Gender	DOB	unique ...	phone n...	marital s...	educatio...
1	LOITA	LOITA	LOITA	M					
2	Mushiboti	Mushiboti	Mushiboti	F					
3	Lihavi	Lihavi	Lihavi	F			072956...		
4	Chritne	Chritne	Chritne	M			072675...		
5	Agatha	Agatha	Agatha	F	1971-05...	161040...	071172...	Never m...	
6	Joseyine	Joseyine	Joseyine	F			072727...		
7	Mukhunji	Mukhunji	Mukhunji	M			072859...		
8	Anjeline	Anjeline	Anjeline	F			072417...		
9	Opindo	Opindo	Opindo	M	1984-12...	175960...	070632...	Never m...	Second...
10	Fridah	Fridah	Fridah	F			072504...		
11	murunga	murunga	murunga	F	02.59	161049...	071097...	Married	Primary ...

Click on the launch query icon, to display report. The report can be downloaded in Excel or extrapolated into Pivot tables for further analysis.

8. PIVOT Tables

#	given_name	middle_name	family_name	DOB	phone_n...	marital_s...	educatio...	visit_date	weight	height	nutrition...	populed...	who_sts...	evsuste...	tb_status	ctx_sdr...
102	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-01...							
103	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-01...							
104	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-01...				WHO Sta...			
105	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...	71.5	163					
106	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...	71.5	163					
107	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...	71	163					
108	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...							
109	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...							
110	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-02...				WHO Sta...			Good
111	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-03...	71	163					
112	murunga	murunga	murunga	1996-05...	161040...	071097...	Married	Primary...	2016-03...	71	163					



KenyaEMR Data Tools. Tested with Firefox and Chrome (Internet Explorer is not supported)

Table: [dropdown] Count: [dropdown] Totals 32,271

given\_name ▾  
middle\_name ▾  
family\_name ▾  
DOB ▾  
unique\_patient\_no ▾  
phone\_number ▾  
marital\_status ▾

**Pivot tables run on the browser.**

9.

KenyaEMR Data Tools. Tested with Firefox and Chrome (Internet Explorer is not supported)

Table: [dropdown] Count: [dropdown] Totals 32,271

Table  
Table Barchart  
Heatmap  
Row Heatmap  
Col Heatmap  
Line Chart  
Bar Chart  
Stacked Bar Chart  
Area Chart

marital\_status ▾  
education\_level ▾  
visit\_date ▾  
weight ▾

Count  
Count Unique Values  
List Unique Values  
Sum  
Integer Sum  
Average  
Sum over Sum  
80% Upper Bound  
80% Lower Bound  
Sum as Fraction of Total  
Sum as Fraction of Rows  
Sum as Fraction of Columns  
Count as Fraction of Total  
Count as Fraction of Rows  
Count as Fraction of Columns

PIVOT Tables: Allows for manipulation of data extracts by choosing data analysis and presentation methods

**KenyaEMR Data Tools. Tested with Firefox and Chrome (Internet Explorer is not supported)**

Mode of data presentation    Type of Statistical analysis    **Step 4**

Table **Step 1**    Count **Step 2**    **ctx\_adherence** **Step 4**    Displays findings on rows

given_name	Good	Inadequate	Poor	Totals
...	1			1
abigael	2	32		34
Abungana	109	54	1	164
Achago	107	32	1	140
Achando	1			1
adelide	1	1		2
Adisa	213	60		273
Adiyo	182	49		231
AFWAI		6		6
Agatha	85	68		153
Aggrey	103	38	3	144
Agnes	1	5		6
Agripina	18	6		24

**Step 3**  
Selected data element displays findings on the column  
Drag and drop on the column field here

**Pivot manipulation**

Step1: Select mode of data presentation from the drop-down menu

Step 2: Select type of statistical analysis from the drop-down menu

Step 3: Drag and drop data set of interest under the count field to appear in a column i.e. given name Step 4:

Drag and drop data set of interest parallel to the count field for findings to appear in rows i.e. CTX adherence

This marks the end of KenyaEMR data tool reporting