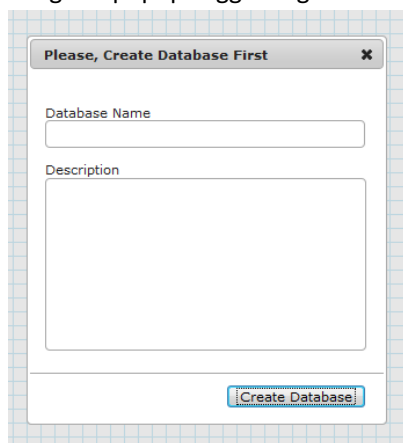


jQuery SQL Designer

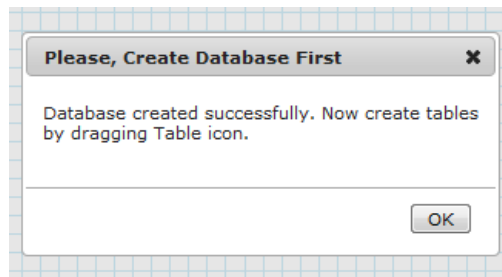
1. jQuery SQL Designer can be accessed at the following URL:
<http://daas.oucs.ox.ac.uk:8080/jQuerySQLDesigner/designer.seam>
2. jQuery SQL Designer is online tool for database designing. It can be used for designing new database, modifying existing database or viewing the design of live database.
3. jQuery SQL Designer is intentionally made “Double Click”. This means for each action double click is required. It will be made clear in the remaining instructions.



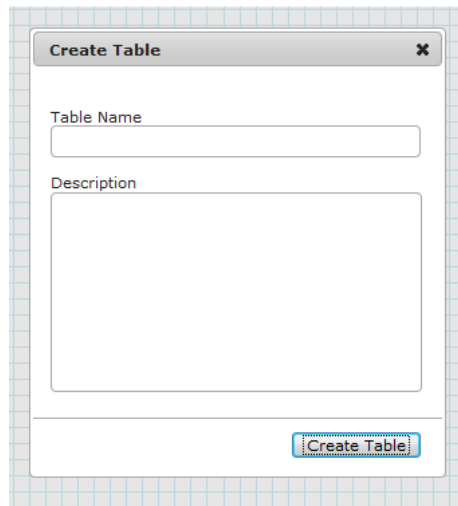
4. is the Table icon. To start the database designing, drag “Table” icon. This will bring the popup suggesting to first create database itself, as shown below:

A dialog box titled "Please, Create Database First" with a close button (X). It contains two input fields: "Database Name" and "Description". Below the fields is a button labeled "Create Database".

5. Fill the form accordingly by giving the name of database and its description and click button “Create Database”. This will result in another popup confirming the successful creation of database.

A dialog box titled "Please, Create Database First" with a close button (X). It contains the text: "Database created successfully. Now create tables by dragging Table icon." Below the text is an "OK" button.

6. Drag the “Table” icon again on the grid to create the table. Create Table popup will appear. Please fill the form as required and click the button “Create Table”.

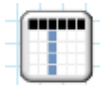
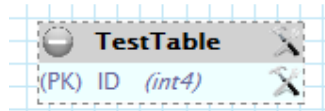


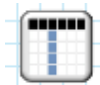
Create Table [X]

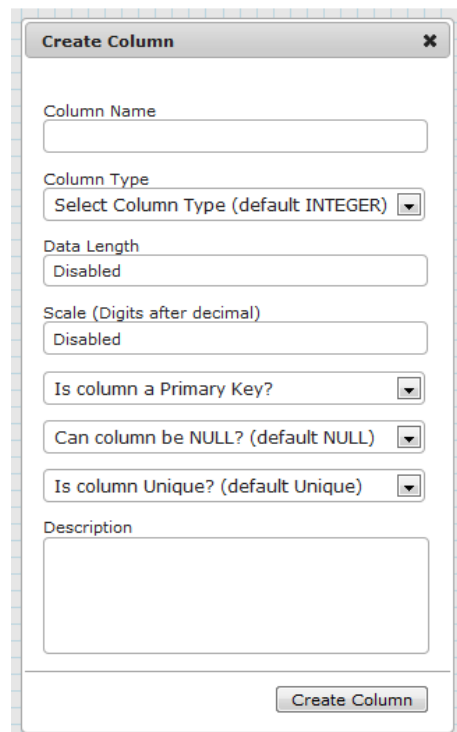
Table Name

Description

7. This will result in the creation of new table with one primary key "ID" as integer. In next versions of the database it will be possible to create a database without any primary key.



8.  is the Column icon. It is used to add columns to existing tables.
9. Drag "Column" icon on already created table. This will bring the Create Column popup as shown below:



Create Column [X]

Column Name

Column Type
 Select Column Type (default INTEGER) ▼

Data Length
 Disabled

Scale (Digits after decimal)
 Disabled

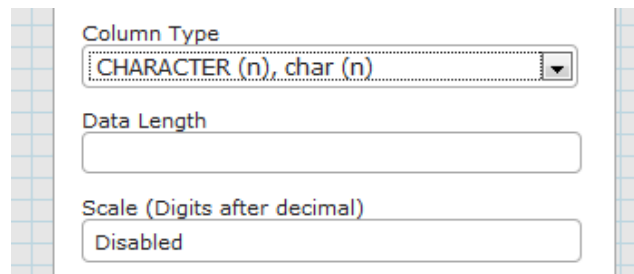
Is column a Primary Key? ▼

Can column be NULL? (default NULL) ▼

Is column Unique? (default Unique) ▼

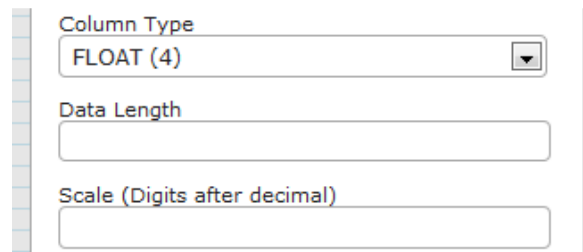
Description

10. There are few things to notice. Fields “Data Length” and “Scale” are either disabled or enabled depending on the Column Type. For data type “char” and “varchar” the field “Data Length” is editable.



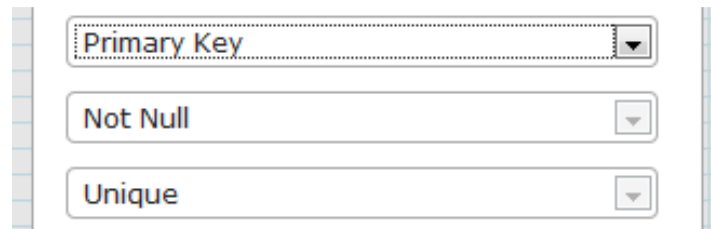
The screenshot shows a form with three fields. The first field, 'Column Type', is a dropdown menu with 'CHARACTER (n), char (n)' selected. The second field, 'Data Length', is an empty text box. The third field, 'Scale (Digits after decimal)', is a dropdown menu with 'Disabled' selected.

11. Similarly for the data type “Decimal” and “Float”, fields “Data Length” and “Scale” are editable.



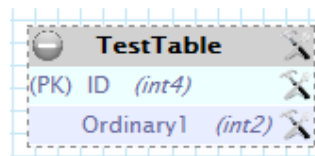
The screenshot shows a form with three fields. The first field, 'Column Type', is a dropdown menu with 'FLOAT (4)' selected. The second field, 'Data Length', is an empty text box. The third field, 'Scale (Digits after decimal)', is an empty text box.

12. If the field is tagged as Primary Key then the form automatically selects the column properties as “Not Null” and “Unique” and made them un-editable.





The screenshot shows a form with three fields. The first field, 'Column Type', is a dropdown menu with 'Primary Key' selected. The second field, 'Not Null', is a dropdown menu with 'Not Null' selected. The third field, 'Unique', is a dropdown menu with 'Unique' selected.

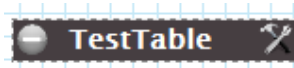
13. Fill the Create Column form as required and click on the button “Create Column”. This will add a new column to the existing table.



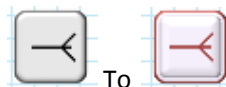
TestTable		
(PK)	ID	(int4)
	Ordinary1	(int2)

14.  is the properties icon on the right hand side of Table and Column names. Double clicking on the properties icon brings either Modify Table or Modify Column form. User can verify, modify and update the existing values for the table and columns. The form do also Delete Table or Delete Column buttons but they are not yet available.

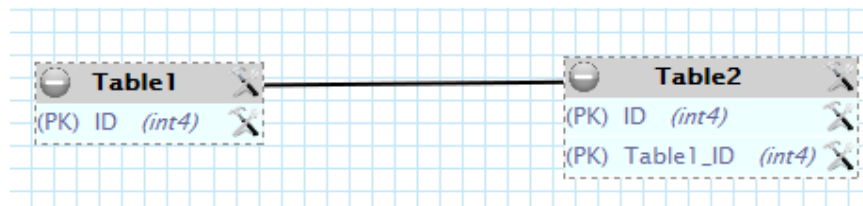
15.  is the minimise icon on the left hand side of the table name. Double click the minimise icon to minimise the table. The table will be minimized and its header will change the background colour and font size as shown below:




16. Tables can be dragged around the design panel by bringing the mouse on table header. Mouse icon changes on entering the table header and changes again when user right click the mouse button.
17. There are various icons for various types of relations i.e. One-To-One (Identifying and Non Identifying), One-To-Many One (Identifying and Non Identifying) and Many-To-Many.
18. When any relation button is clicked it changes its appearance as shown below:




19. Icons with dashed lines represent Non Identifying relations. Similarly icons with continuous line represent Identifying relations.
20. Drawing relations between two tables involves three steps:
- Click the relation icon
 - Double click the header of Table with Primary Key
 - Double click the header of secondary (dependent) Table.
21. Line will be drawn between two tables representing the relation and the relation icon reverts to its normal state.



22. Moving the cursor on the relation will change the colour of the relation and also highlights headers of tables involved.

23.  will produce the SQL for the designed database.

24.  will load one existing database for familiarising with jQuery SQL Designer. It is quite complicated database used by Roman Economy Project in Oxford University.
25. The button “Load Live Database” is a new very powerful feature to draw Design Diagram from the live running database.
26. Click on the “Load Live Database”, it will bring the popup where enters the appropriate fields. The popup form is shown below:

Remote Database Connection Properties

Database Type

Select Database Type

Database Host URL (example.com)

Please, first select database type

Database Port

Please, first select database type

Database Name

Please, first select database type

User Name

Please, first select database type

Password

.....

Connect