WEB INTERFACE FOR CDS/ISIS

GENISISweb

VERSION 3.0.0

July 2003

PREFACE

I would like to thank Mr. David Storti for his excellent workshop held in Bangkok in 2001. Also Dr. Susanne Ornager, Adviser for Communication and Information in Asia and the Pacific, UNESCO, for organizing this workshop. The knowledge gained at this workshop inspired me to use this web interface.

I have used the latest version GENISISWEB 3.0.0 for this manual. But I have not included many new features, which I intend to do as soon as possible. The new version has many features which would make the librarian's/ information officer's life easier in providing their databases on the web. Even with an average knowledge on software usage any one may be able to make use of this software.

It is really admirable the assistance rendered by UNERSCO for the developing countries in the development of Library Information Services.

Deepali Talagala
July 2003

01. Introduction

GENISIS is an authoring software (for Win32) for visually producing web forms to query CDS/ISIS databases. There are two versions of the tool: GenisisWeb, for web publishing and GenisisCD for developing CDRom interfaces for CDS/ISIS databases. CDS/ISIS is an advanced non-numerical information storage and retrieval software developed by UNESCO since 1985 to satisfy the need expressed by many institutions, especially in developing countries, to be able to streamline their information processing activities by using modern (and relatively inexpensive) technologies.

Genisis was originally developed by the former IBISCUS Association (France) for UNESCO and it is now available free of charge on the UNESCO FTP site. The software is written in Microsoft Visual Basic. Its source code is also freely available. A new release of GENISIS, the authoring software for visually producing search interfaces for CDS/ISIS databases, is now distributed on UNESCO's CDS/ISIS webpage.

http://www.unesco.org/isis/files/winisis/genisis/web/genisisweb.exe
http://www.unesco.org/isis/files/winisis/genisis/cdrom/genisiscd.exe
ftp://ftp.unesco.org/pub/winisis/genisis/web/

GenisisWeb now supports CSS (Cascading Style Sheets) and has an improved CDS/ISIS print format wizard that makes it easier to link records to each others. GenisisCD works also over HTML pages but includes its own search engine and may produce a fully fledged CD, including: installation program, autorun, HTML help, totally customizable interface logos etc. GenisisCD will prepare the CD that will then possible to burn using your favorite CD writer software. Available interface languages: English and French.

Genisis, basically implements the following steps:

1. the web query form (with field selection and index access);
2. the display of query results;
3. the display of a particular record's details;
4. test the application;

For testing the generated application with GenisisWeb, will require the use of a local web server such as Apache web server.

Finally, depending on which version of GENISIS you are using, it is possible to export the generated application to a real internet/intranet server (Windows, Unix, Linux) or to prepare the structure of the CDRom for the copy. GENISIS is based on the Web CDS/ISIS interface WWWISIS by BIREME.

02. Installation of Apache web server

Apache web server is distributed with the CDS/ISIS official CD in. To install Apache insert the CD when you get the auto run screen (Fig. 01) click on this icon and go to folder cds-isis\internet\genisis\websrv.
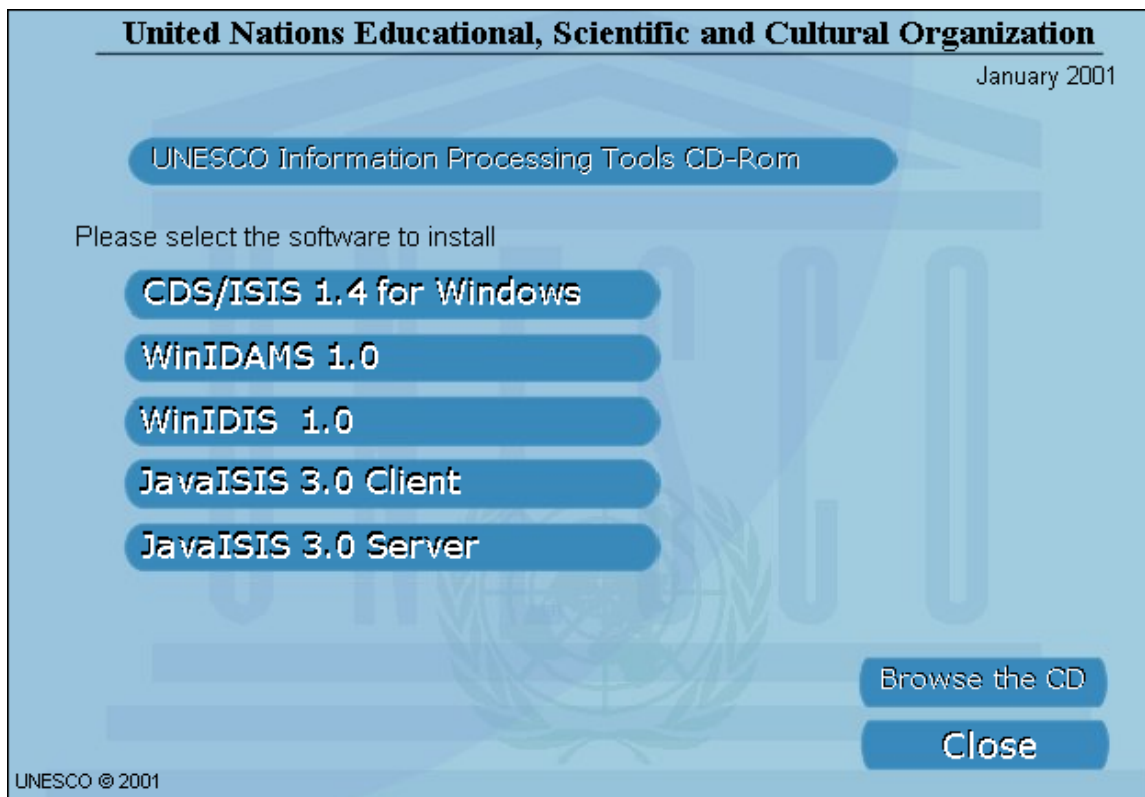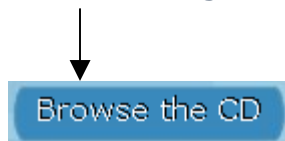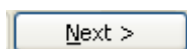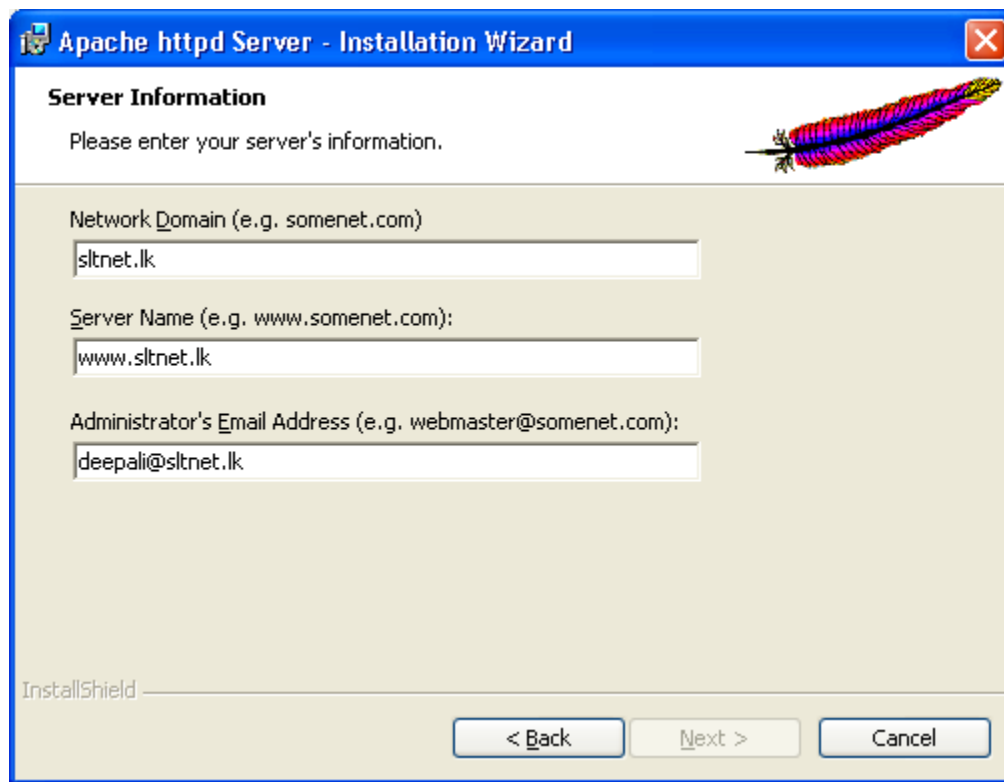
Browse the CD

Fig. 01

Then double click on ![apache icon] apache_1.3.17-win32-no_src Windows Installer Package 1,756 KB and installation of Apache will start.

Click on next button [Next >] until you get this screen (Fig. 02).

Fig. 02

Here you have to give a domain name, server name and email address. These doesn't need to be real, you can give any name in the format shown above.

Once Apache is installed GenISIS can be installed.

03.   Installation of GenISIS

When you download the GenISISweb file from the UNESCO website you have to unzip this file.

Double click on it and give the path here (fig. 03) where you want to copy the files so that the file will be decompressed.

Click on the
button
"Decompresser"
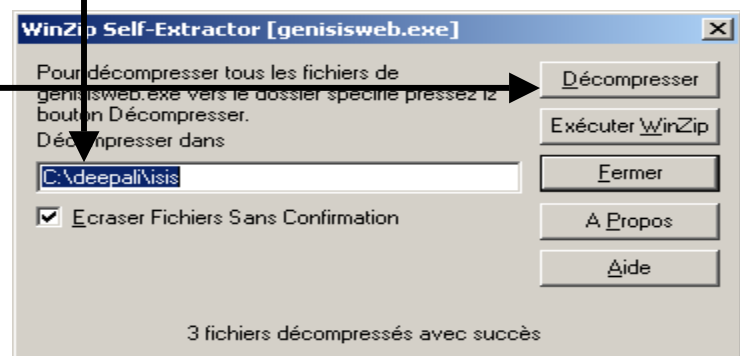
Fig. 03

Then you will get these three files (Fig. 04). Dou
Then the installation for GenISIS programme will

Fig. 04

When GenISIS starts
installation the first
screen you will see is
this (Fig. 05).
 Click on **OK** button
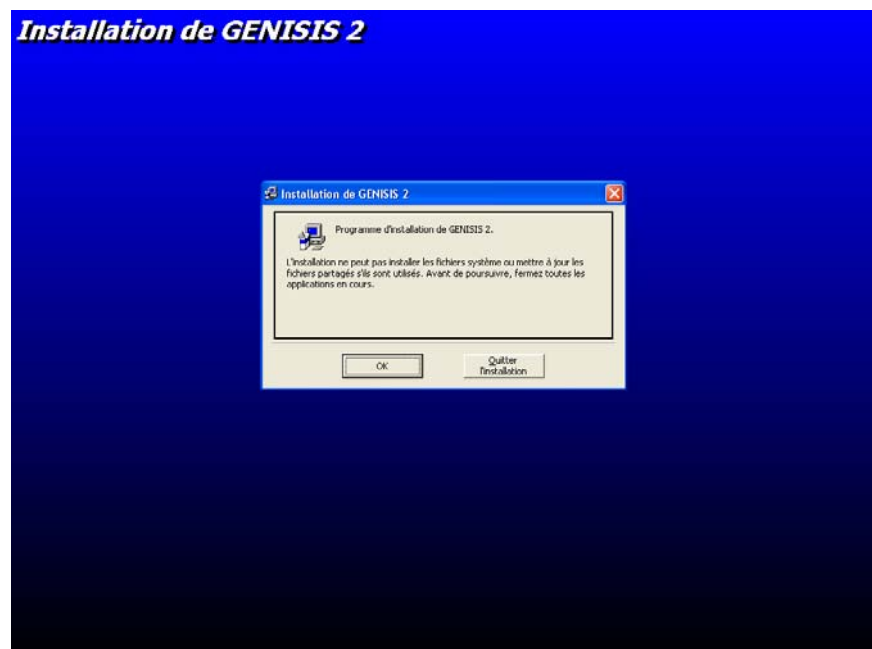
Fig. 05

Then You will
get this screen
(Fig. 06).
Click on this
button

Installation de GENISIS 2

Commencez l'installation en cliquant sur le bouton ci-dessous.

Cliquez sur ce bouton pour installer le logiciel GENISIS 2 dans le dossier de destination spécifié.

Dossier:
C:\Program Files\genisis\

Changer de dossier

Quitter l'installation
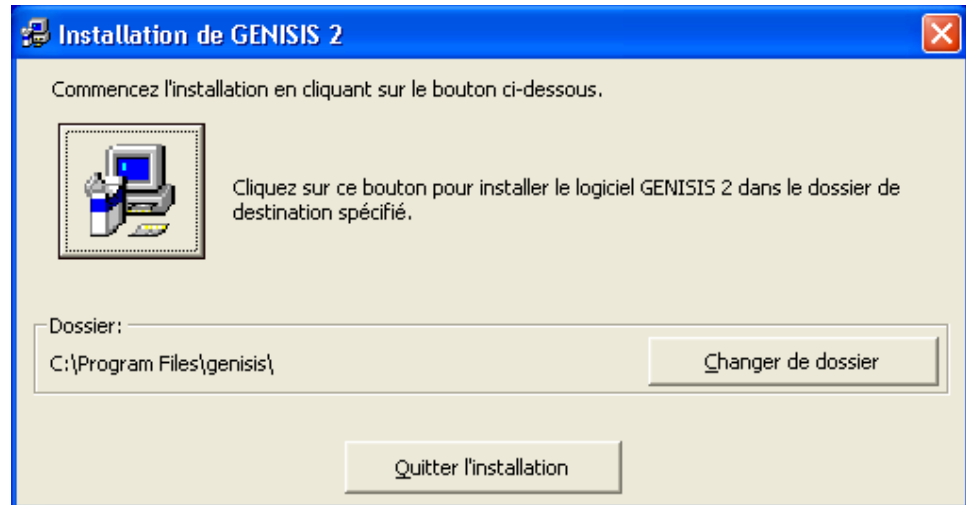
Fig. 06

Then you will get this
screen (Fig, 07) Click on
the button

Continuer

GENISIS 2 - Choisir le groupe de programmes

L'installation va ajouter des éléments au groupe présenté dans la boîte Groupe de programmes. Vous pouvez entrer un nouveau nom de groupe de programmes ou en sélectionner un existant dans la liste Groupes existants.

Groupe de programmes:
genisis

Groupes existants:
Accessories
genisis
Startup

Continuer   Annuler

Fig, 07

Finally you will get this.
Then click on **OK** button.

Installation de GENISIS 2

L'installation de GENISIS 2 a réussi.

OK

At this point you have installed
the web serve Apache and the
GenISIS web interface.
The file structures of Apache
and GenISIS will be like this
(**Fig. 08**)
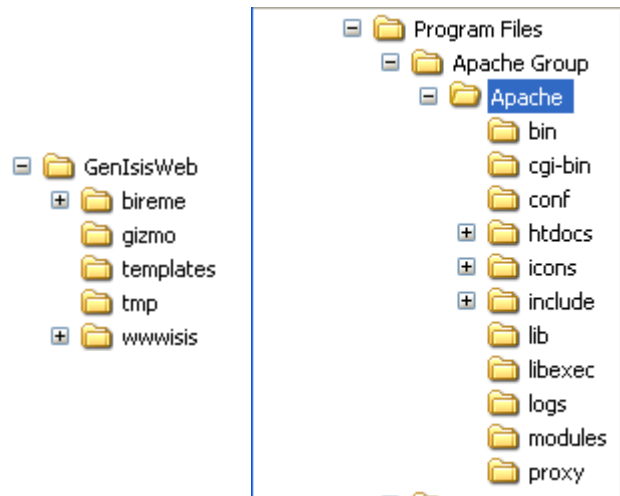
Before you start using   **Fig. 08**

the GenISIS programme copy the following files.

Copy the "wwwisis" folder in GenISIS to "htdocs" folder in "Apache".

Copy all files in the "bireme" folder in "GenISIS" to the "cgi-bin" folder in

Apache

04.   Starting Apache web server

Befor you start GenISIS you
have to run the Apache web
server. To start Apache
Follow the steps shown below
(Fig. 09).
Click on START

PROGRAMS

APACHE HTTPD
SERVER

CONFIGURE
APACHE SERVER

Fig. 09
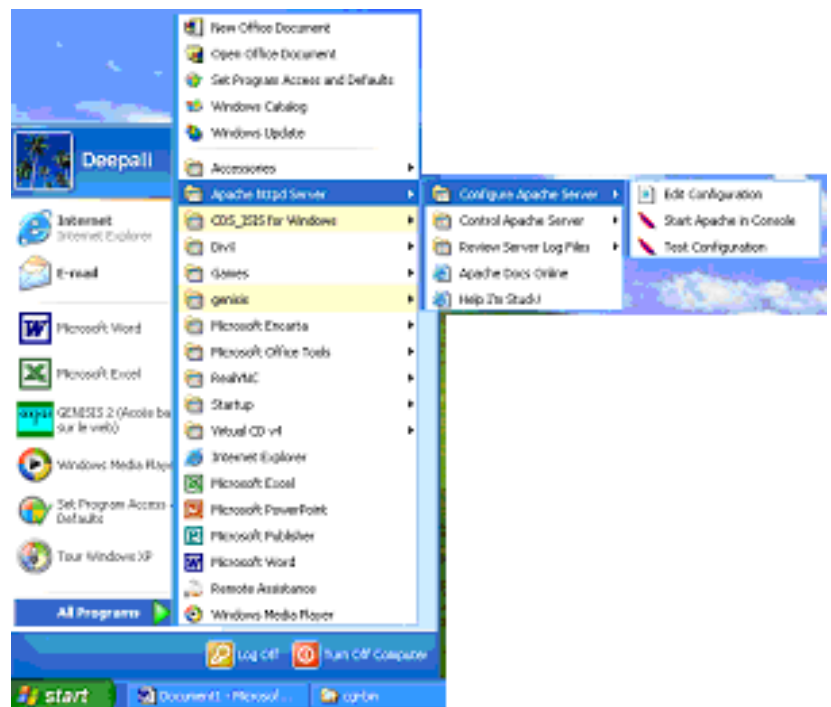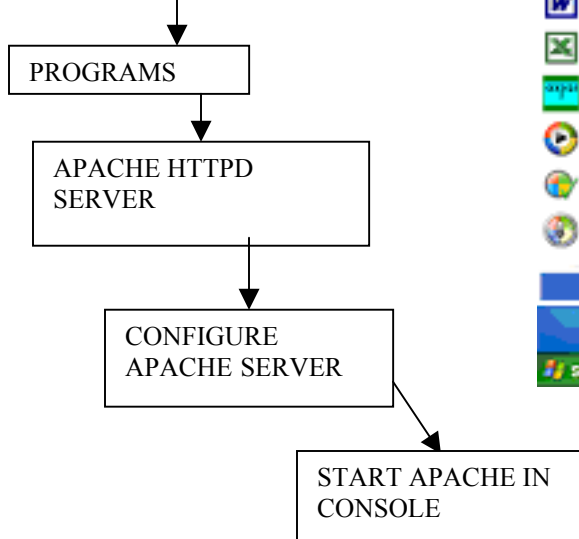
START APACHE IN
CONSOLE

When apache starts running you will get this window (Fig. 10) Then click on the minimize button.
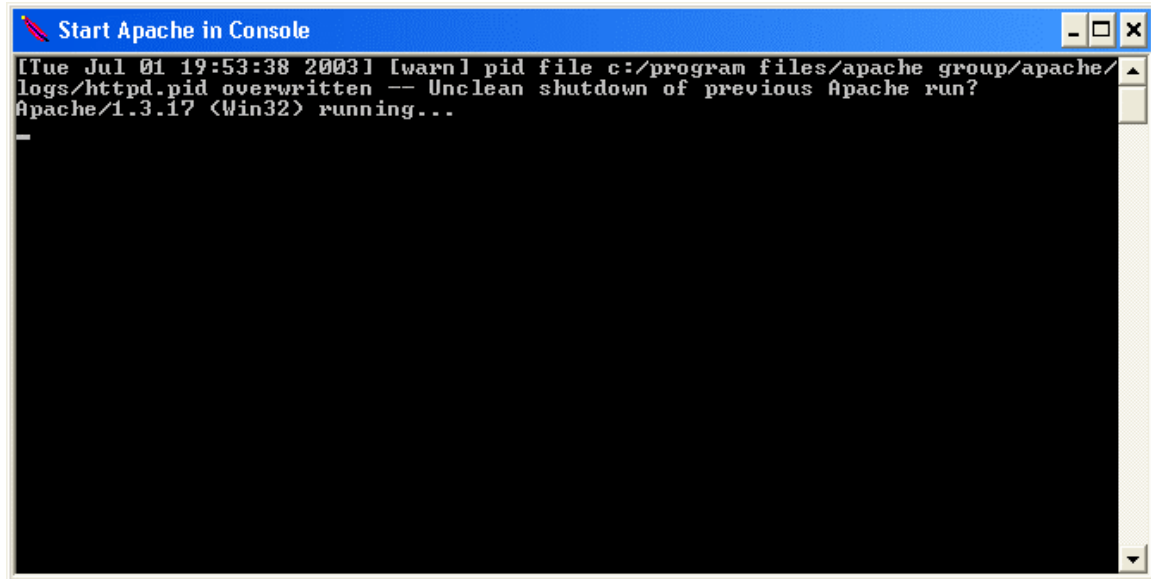
Fig. 10

Then you can test to see if apache is running properly by opening any web browser. Open the web browser (Internet explorer/ Netscape) and type at the address bar "localhost" and you should get the following screen (Fig. 11)
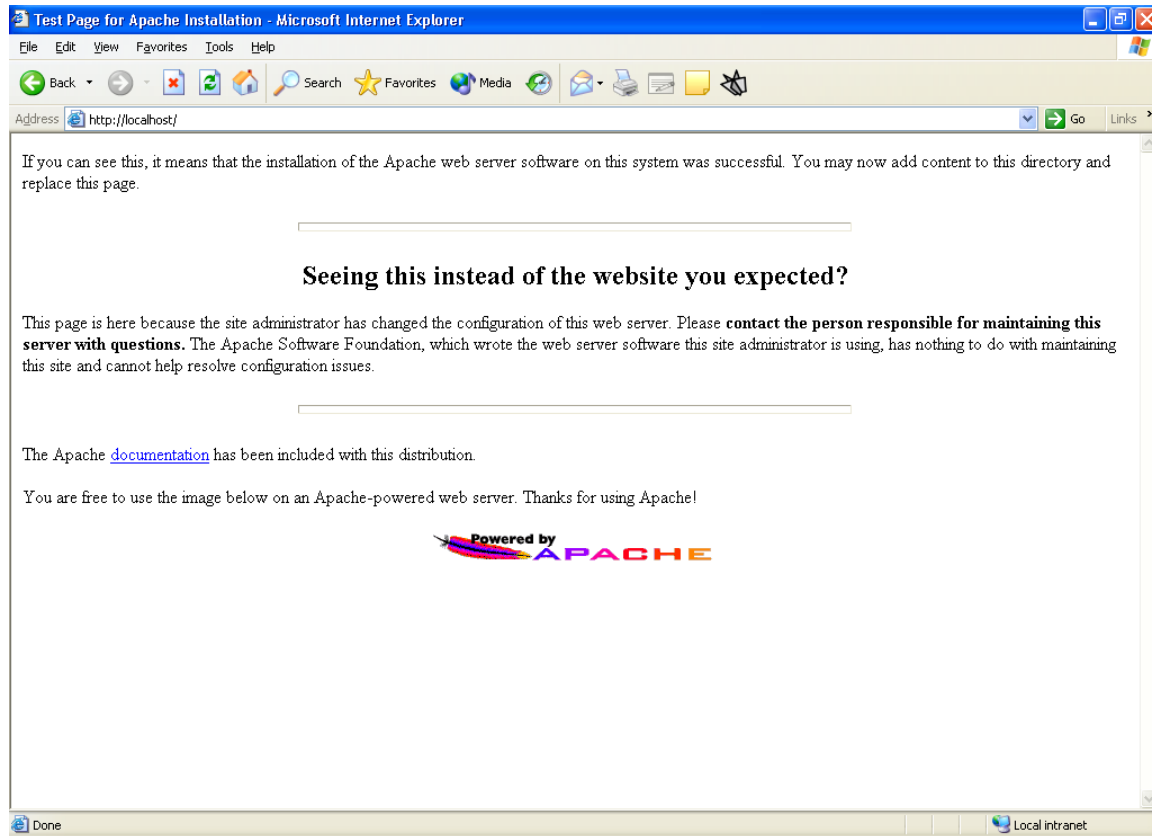
Fig. 11

Now you are ready to design your web interface.

05.   Starting GenISIS

To start GenISIS follow the steps given below (Fig. 12) or you can also create a shortcut on the desktop.
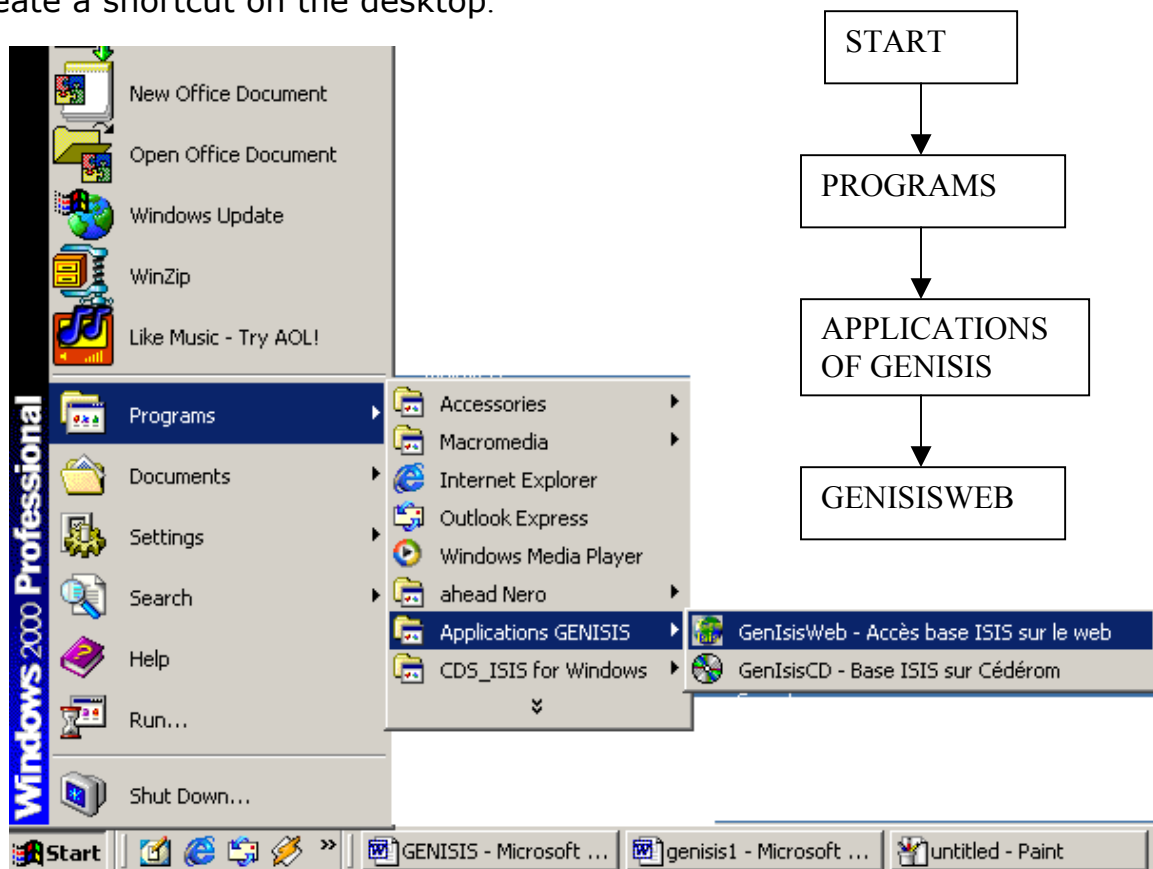
Fig. 12

Then you will get the following screen (Fig. 13). Select the option **Subfolder "wwwisis" in "DocumentRoot"**

Click here to
select the
language

GENISIS is running for the first time

Language [English ▼]

Alias to CGI scripts and modules [/cgi-bin/]

Access to static web pages (see reference manual)
- ○ Use a given "alias"
- ⦿ Sub-folder "wwwisis" in "DocumentRoot"

DocumentRoot [ ] [...]

Browser
- ⦿ Default browser (external)
- ○ Internal browser

[Ok]   [Cancel]
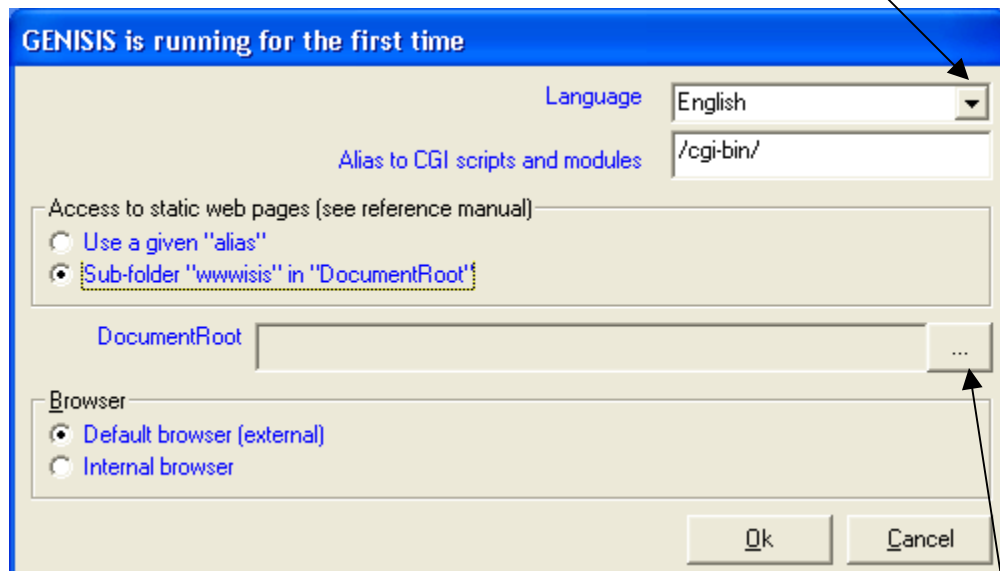
Fig 13

When you Click here you
will get the dialogue box
(Fig 14)

GENISIS is running for the first time

Language [English ▼]

Alias to CGI scripts and modules [/cgi-bin/]

Access to static web pages (see reference manual)
- ○ Use a given "alias"
- ⦿ Sub-folder "wwwisis" in "DocumentRoot"

DocumentRoot [c:\Program Files\Apache Group\Apache\htdocs\ ] [...]

Browser
- ⦿ Default browser (external)
- ○ Internal browser

[Ok]   [Cancel]
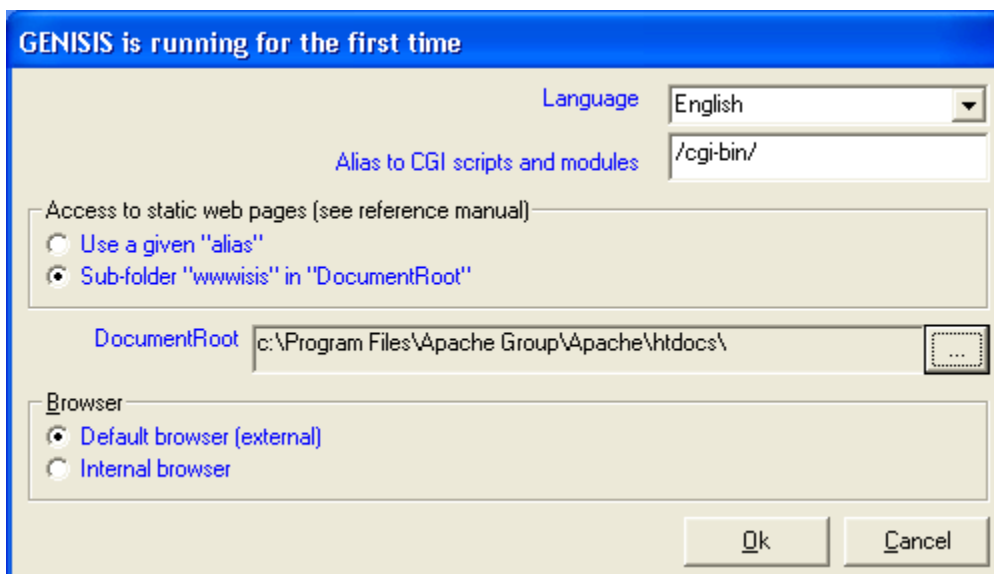
Fig 14

Then you will get this message (Fig. 15)
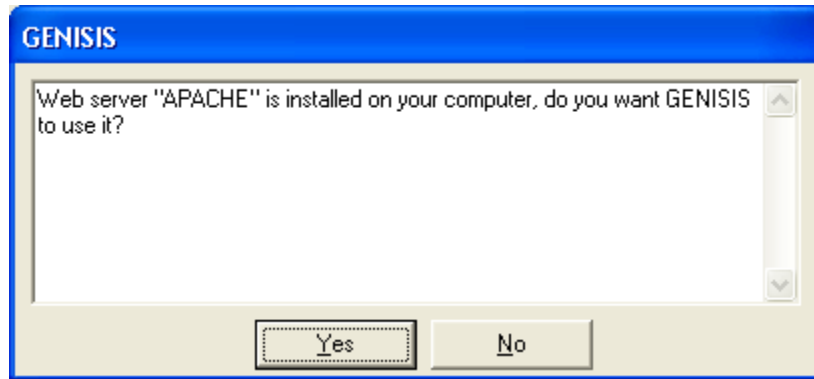
Fig 15

Click on YES and you will get the message (Fig. 16)
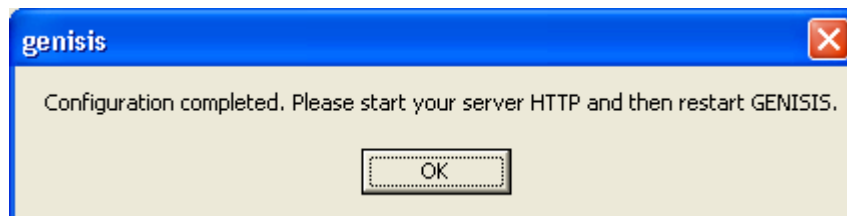
Fig. 16

Then click on **OK** and you will get this message (Fig. 17) and click on **OK** .
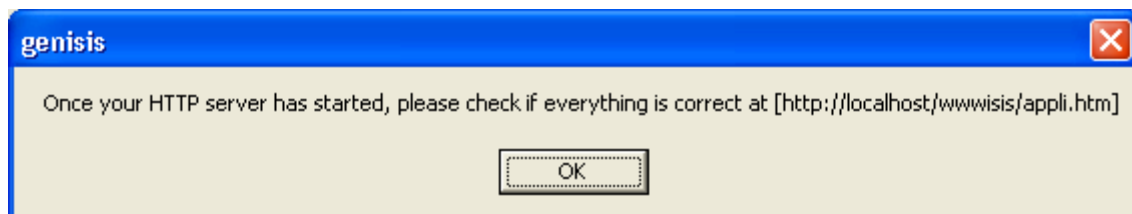
Fig. 17

Then you will get the following screen (Fig. 18)
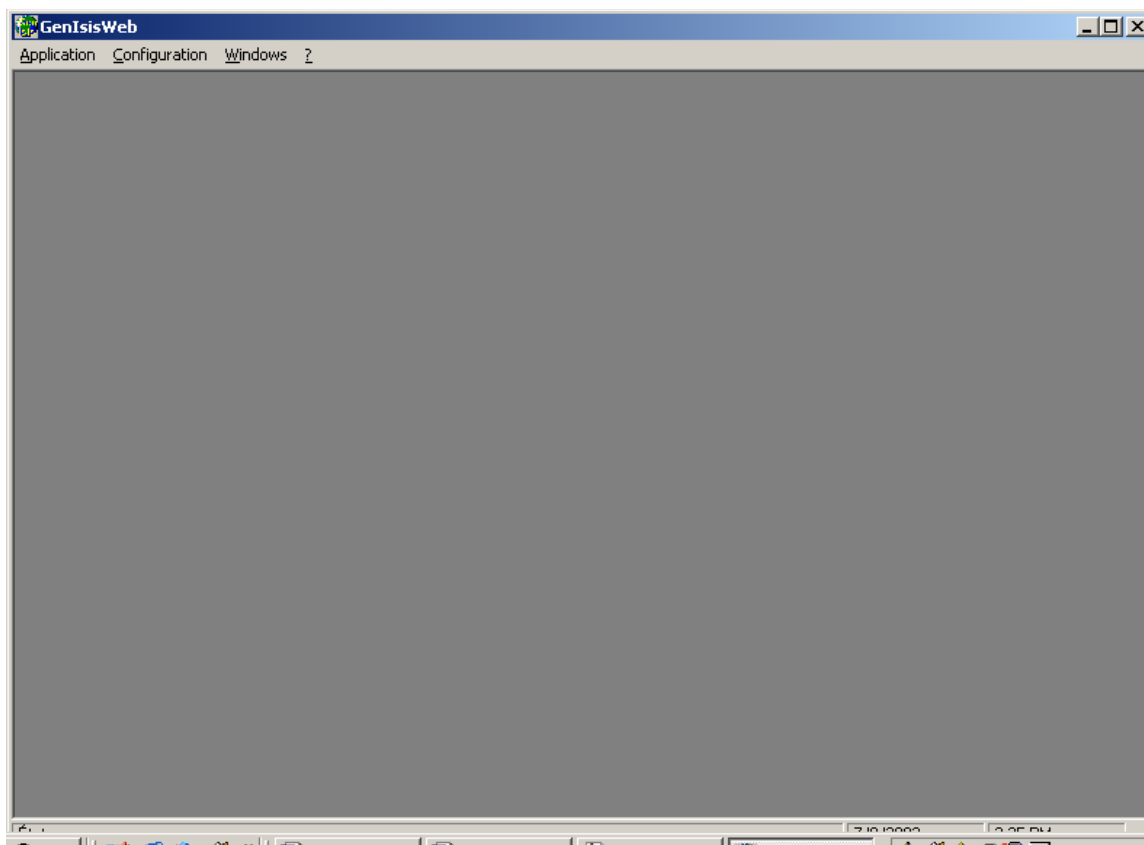
Fig. 18

Click on the tab "**APPLICATION"** and you will get a dropdown menu (Fig. 19)
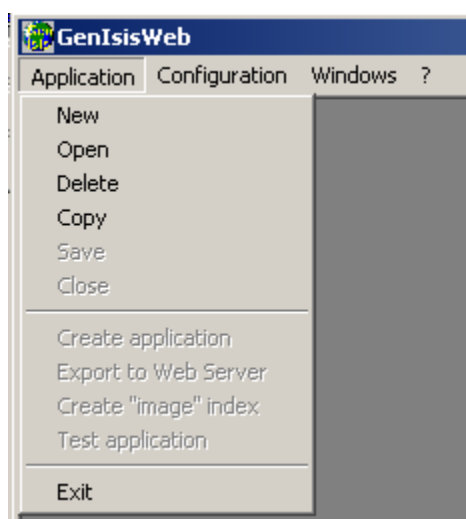
Fig. 19

On the dropdown menu click on "**New**" and you will get the dialog box (Fig. 20) where you have to select an existing WinISIS database.

Select the database and click OPEN.
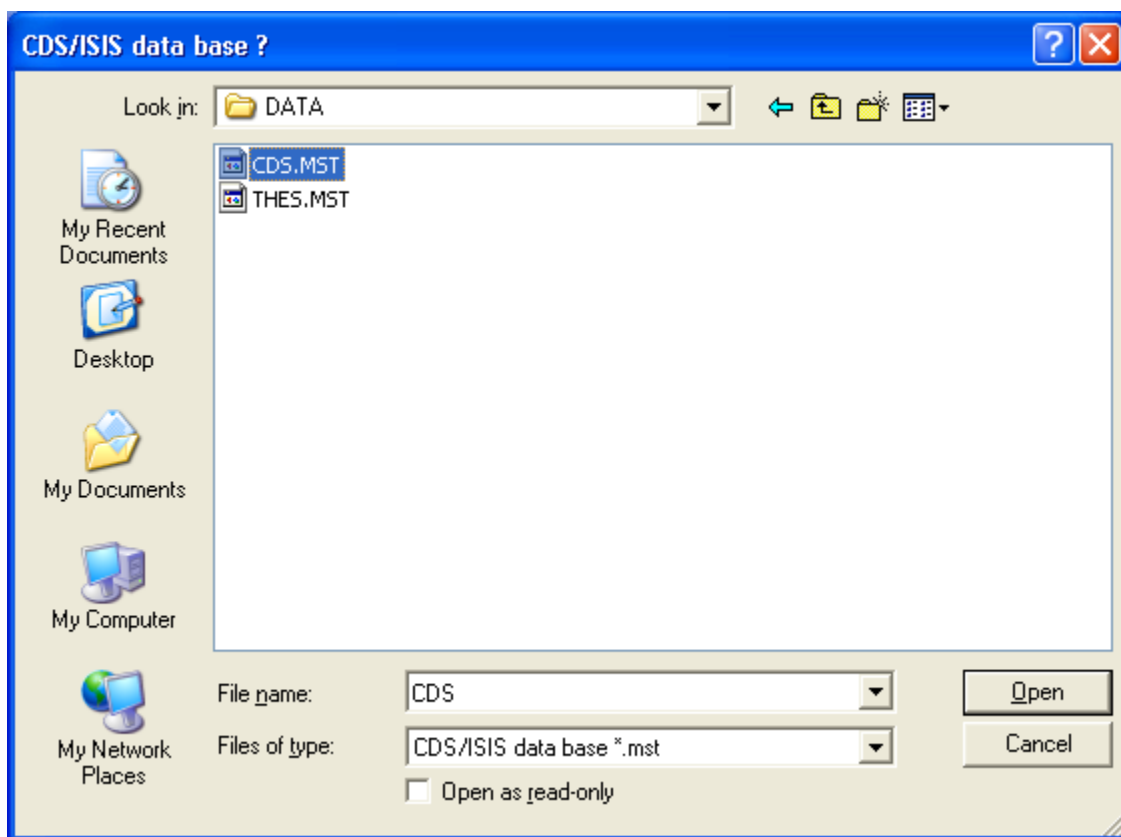
Fig. 20

When you select the database and click "**OPEN**" button, you will get the
following message (Fig. 21) where you have to give a name for your
application. Here you can give any name such as "**MYWEB**" and click **OK**
button.
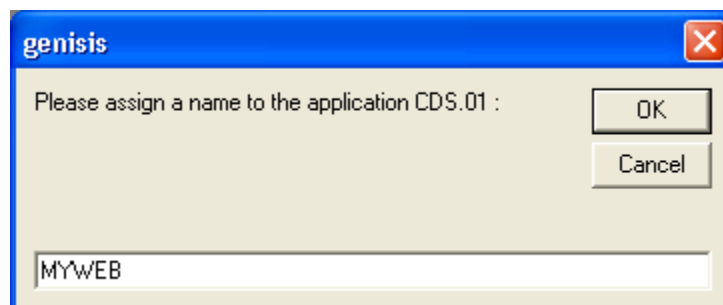
Fig. 21

Then you will get this window (Fig. 22)with three forms:

- ➢ Query form
- ➢ Format 'listing'
- ➢ Format 'details'
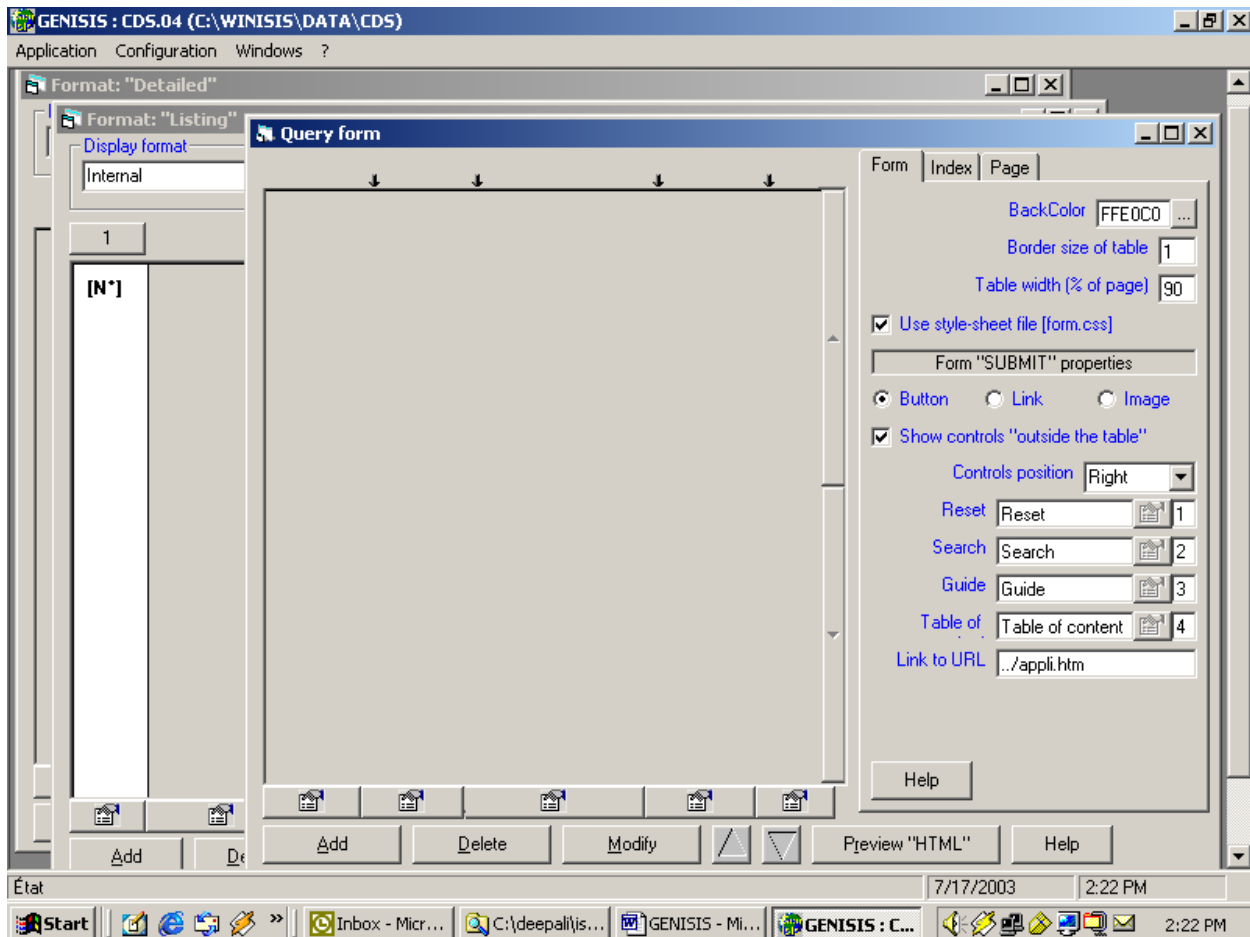
Fig. 22

Query form: allows you to design the query for with field selection and access to Indexes.

Format 'listing': allows you to design a short display format from which the users can select for the detailed display.

Format 'details': allows you to design a detailed display format.

05.01   Designing the query form

To design the query form you have to add fields. Click on "**ADD**" button at the bottom of the query form (Fig. 22). Then you will get this window (Fig. 23) titled '**ITEMS ON THE QUERY FORM**'. The items you see on the left panel are those indexed in your database, i.e. which are included in the FST and one field including all fields.

Fig. 23

On the left panel below you are given options to select the operators and the access to index. Here you can select three different ways of displaying the link to index.

On the right side also you can select what ever options you would like to have. Here you can select "**AUTOMATIC TRUNCATION**" without using the $ sign.

Once you select these options click on "OK" button and you will get this window (Fig. 24).

Note: You can select only one field at a time. If you want to select more fields you have to click on "ADD" and select another one.
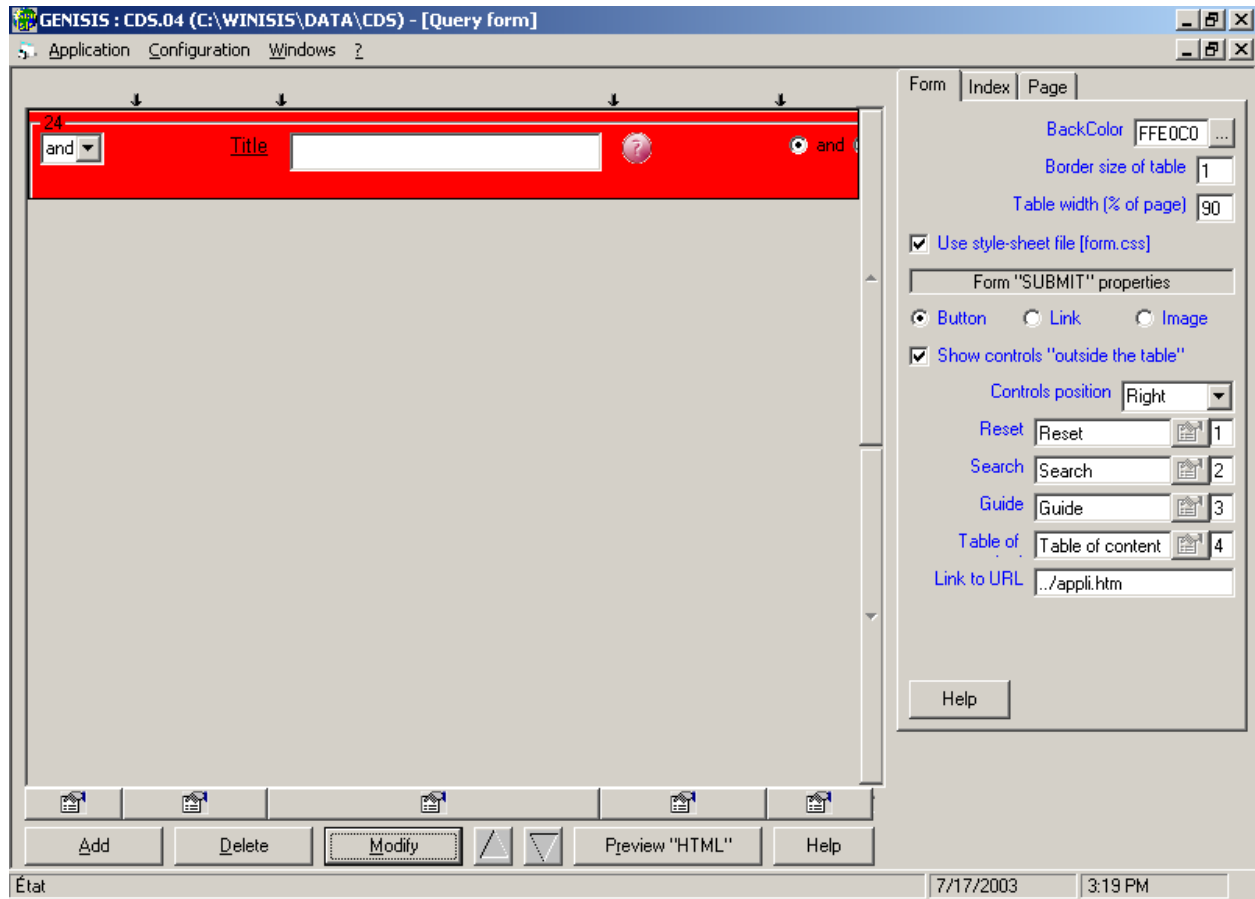
Fig. 24

There are three tabs on the right side of this window as shown below. By clicking on any of these will allow you to format these pages.

 If you click on "**PAGE**" tab the right side of the window will change as given below (Fig. 25)
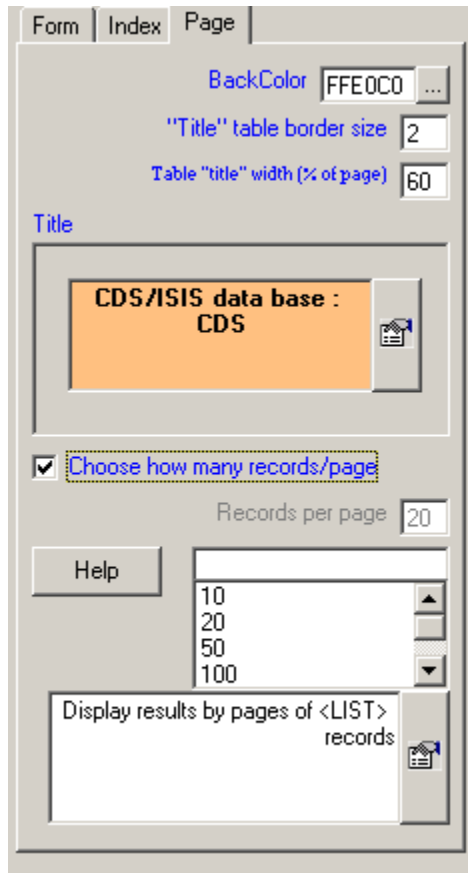
Here you can select how many recoeds to be displayed after searching. You can also select the background colours.

Note: It is better to play with these options and see how they give different look to your query form and the search display. Click on this button **also and see what happens and how you can design your query form and display windows.**

Fig. 25

Once you finish designing the query form you can test it. Click on "**APPLICATION"** on the menu bar and click on "**SAVE**" on the dropdown menu. Then you will get this message (Fig. 26). Click on "**OK**"

Fig. 26

Again click on "**APPLICATION"** on the menu bar and click on "**CREATE APPLICATION**" on the dropdown menu. You will get this message (Fig. 27).
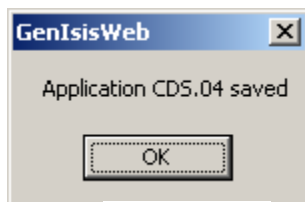
Click on yes and your web browser will open automatically and the
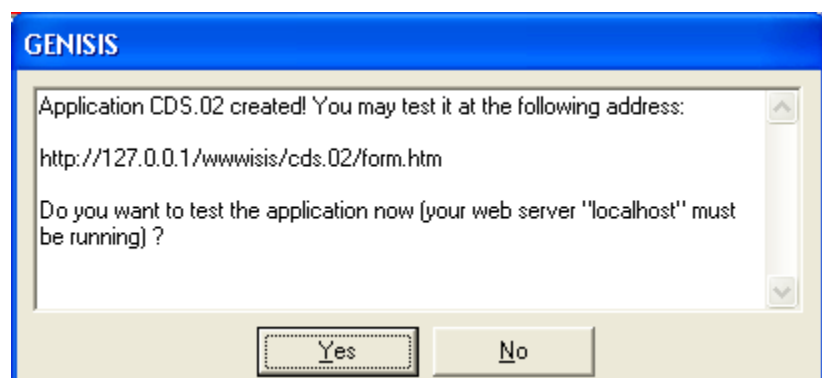
Fig. 27

query form will open in it (Fig. 28).
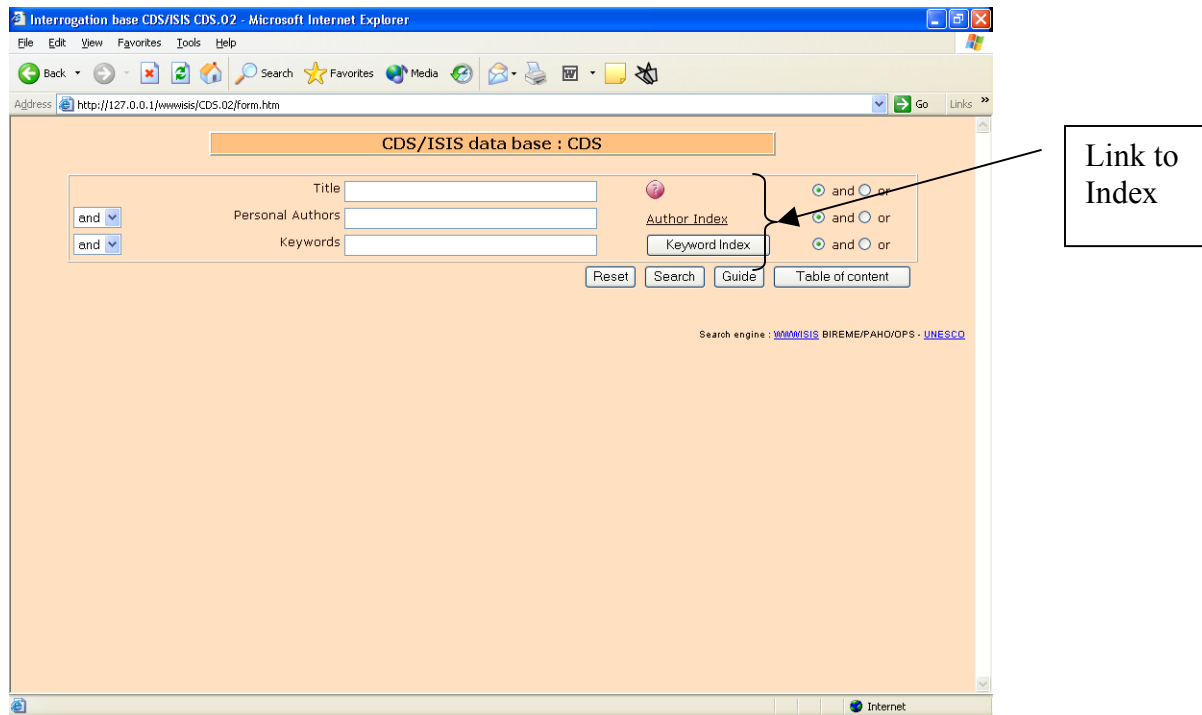
Fig. 28

Note: In Fig. 28 you can see that three types of Index linking is used

Now you can open the Index by clicking on the link to index and you select terms from the Index (Fig. 29) and click on search.
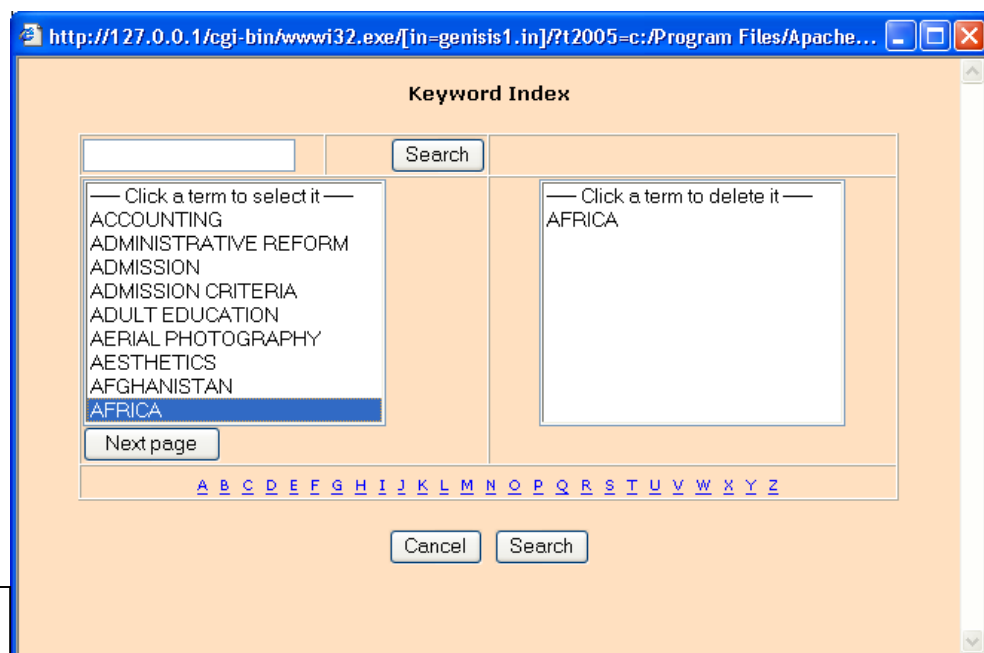
Fig. 29

You will get back to the query form and the terms you selected will be on the form.

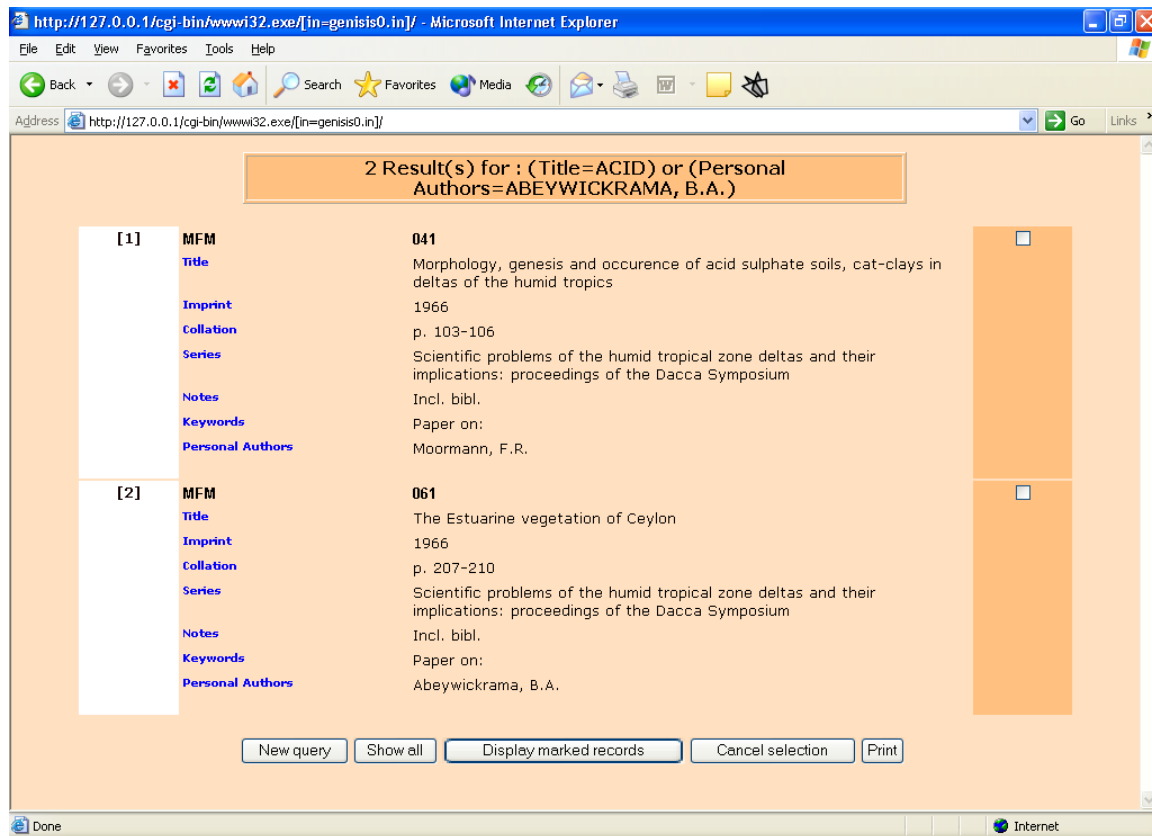Now click on "**SEARCH"** button. You will get the search results as shown in Fig. 30

Fig. 30

> **Note: Remember still you have not designed the display formats. What you see in Fig. 30 is the default format.**

05.02 Designing the display formats

First you have to design the short display, which will allow the users to select records for detailed display.

Click on the "Format listing" window. Then you will get the default form (Fig. 31). Click on "**ADD**" button at the bottom and you will get a form similar to a worksheet in WinISIS (Fig. 32)

Fig. 31

To select the field click here and you will get this drop down menu

After selecting the field click here

Fig. 32

Click on this and you will get the help Fig. 33

Click here to add a link (Fig. 34)
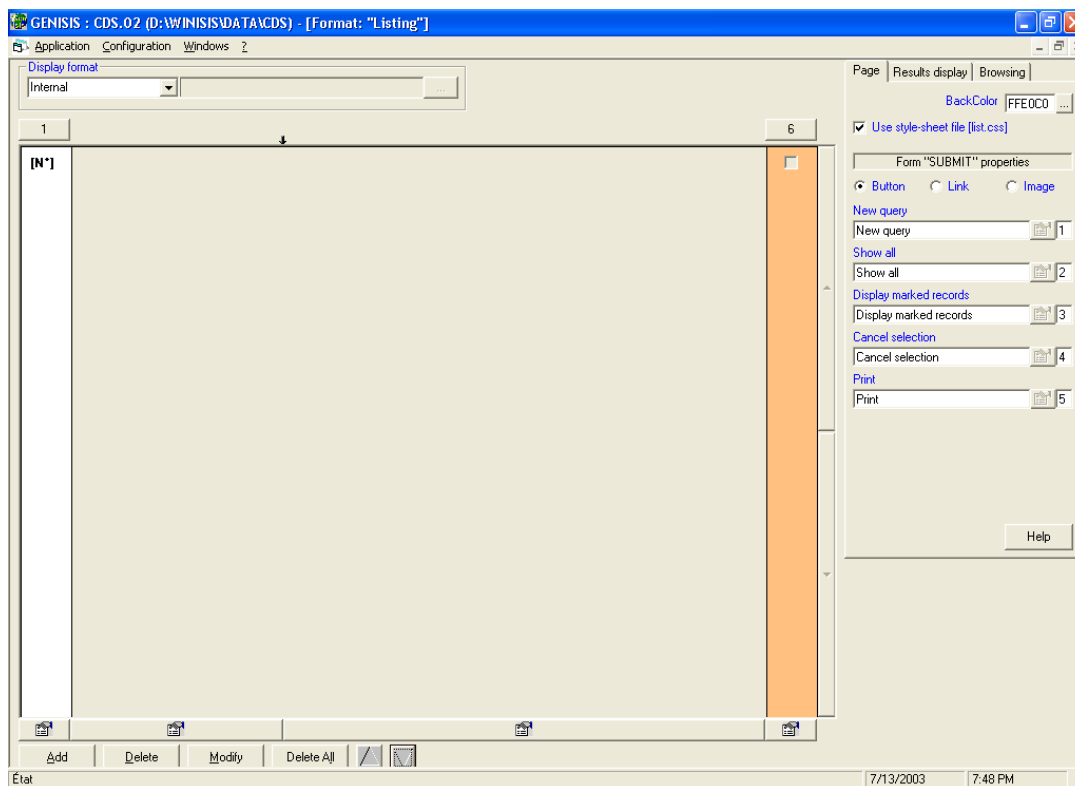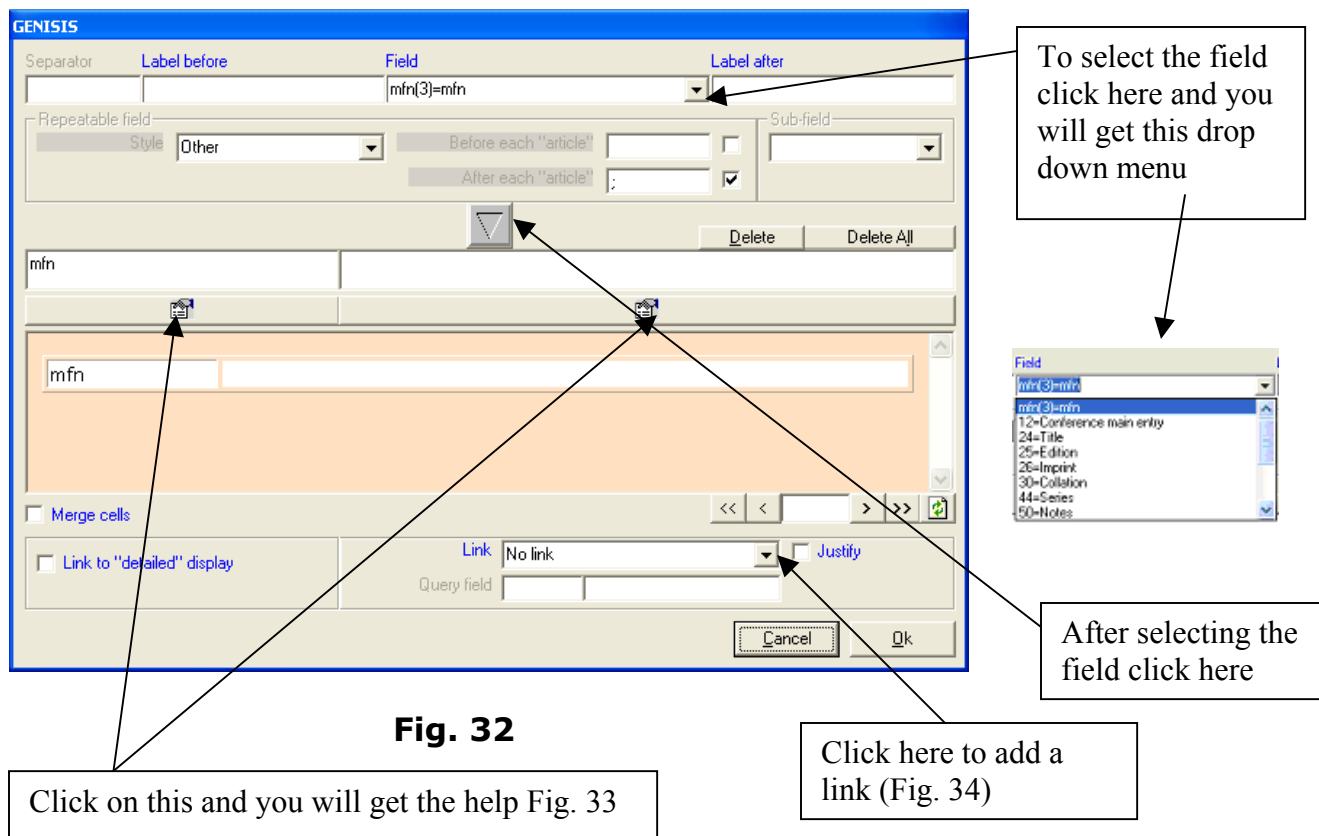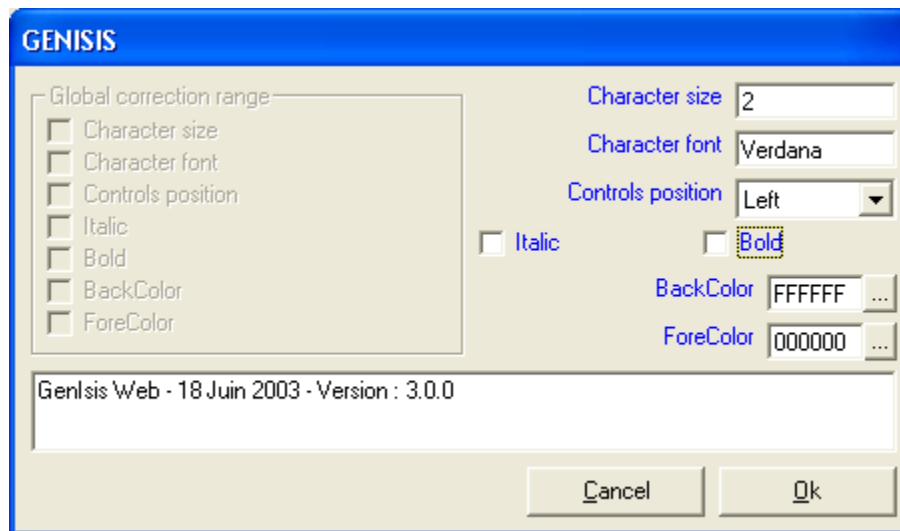
Fig. 33
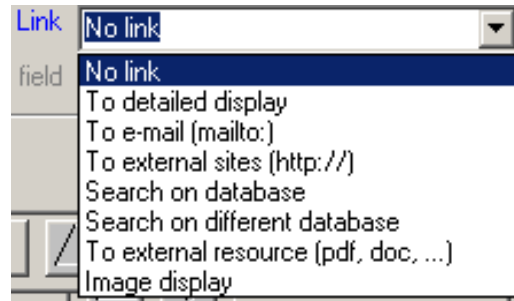
Fig. 34

You can select two or three fields to be displayed in the short display and one filed should be linked to the detailed display (Fig. 34), so that the users can see the detailed display of each record by clicking on this link.
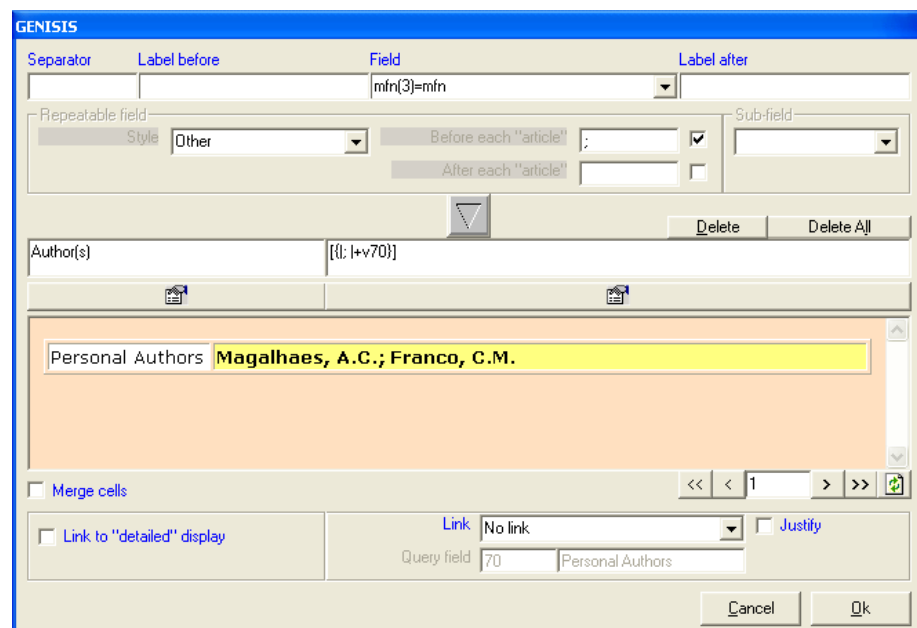
See Fig. 35 which

Fig 35

is after entering a field for the short display. Click on "**OK**" button

Note: Here also you have to add each field separately

Once you select two/ three filed for your short display (Fig. 36) you can save and create and view the web interface and search as given above under 05.01.

With this can select different ways of displaying the number of the record and linking the record to the detailed display (Table 01)
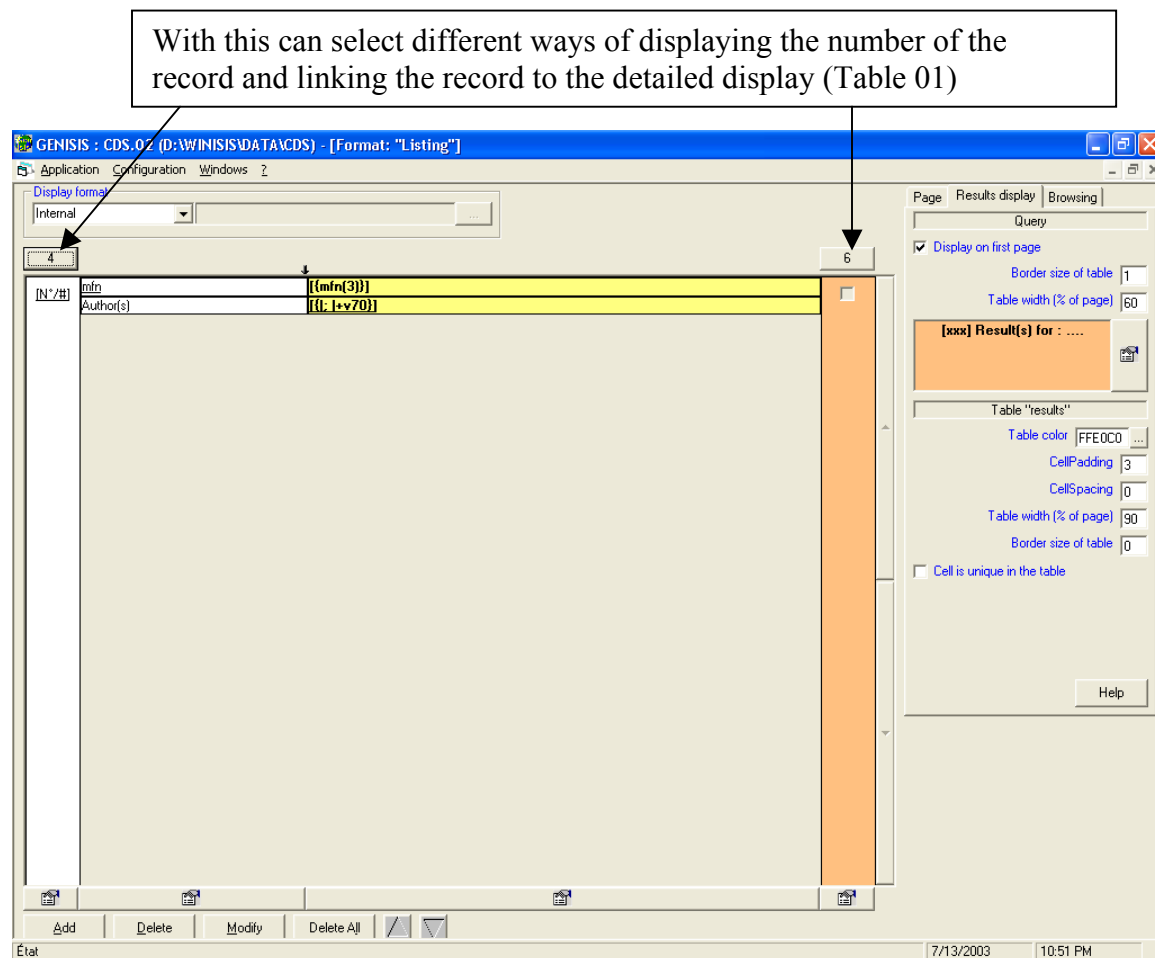
Fig. 36

1	only the number of the record
2	the number linked to the detailed record
3	[1/21] (Fig. 37)
4	Same as for 3 but the number is linked to the detailed display
5	Fig. 38
6	Fig. 39
X	does not show the number of the record

Table 01

Fig. 37

This is linked to detailed display

Fig. 38

This allows to select the record and display

Fig. 39

You have to follow the same procedure to design a detailed display on the **FORMAT "DETALED"** form. Fig. 40 shows a sample detailed format form.
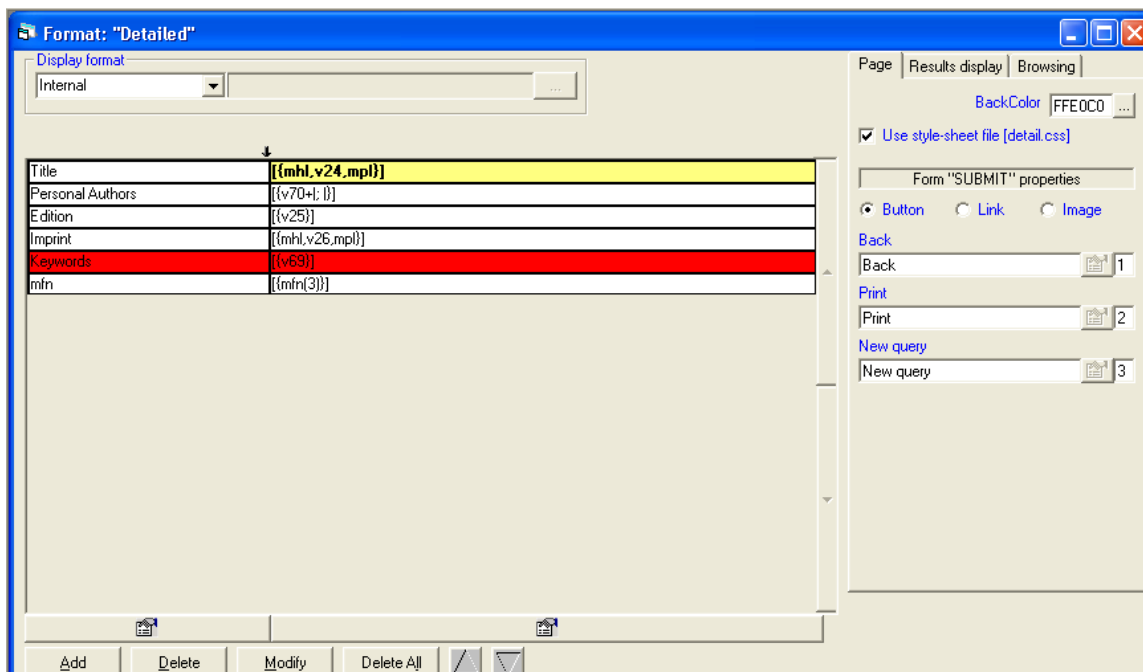
Fig. 40
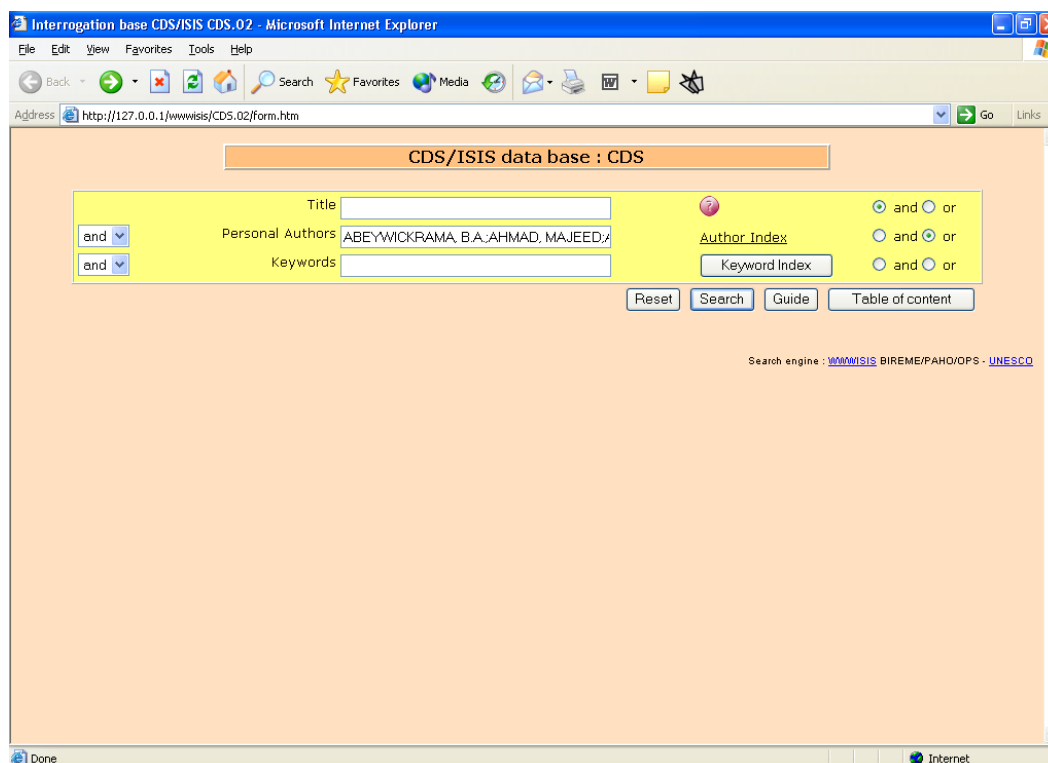
Fig. 41 – Web query form
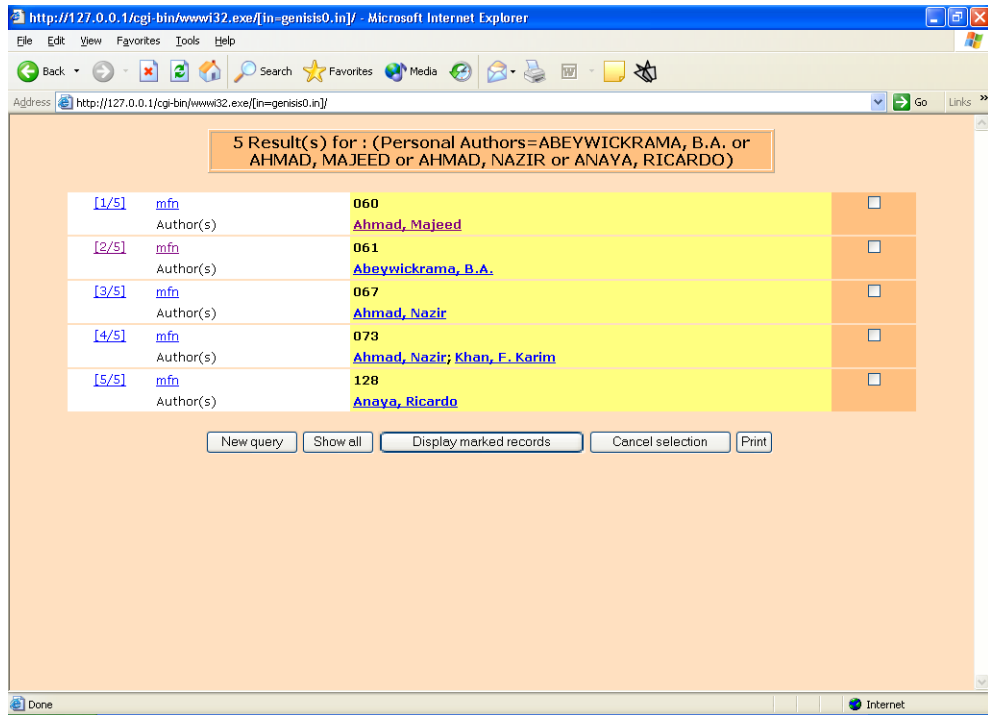
Fig. 42 – Short display on the web
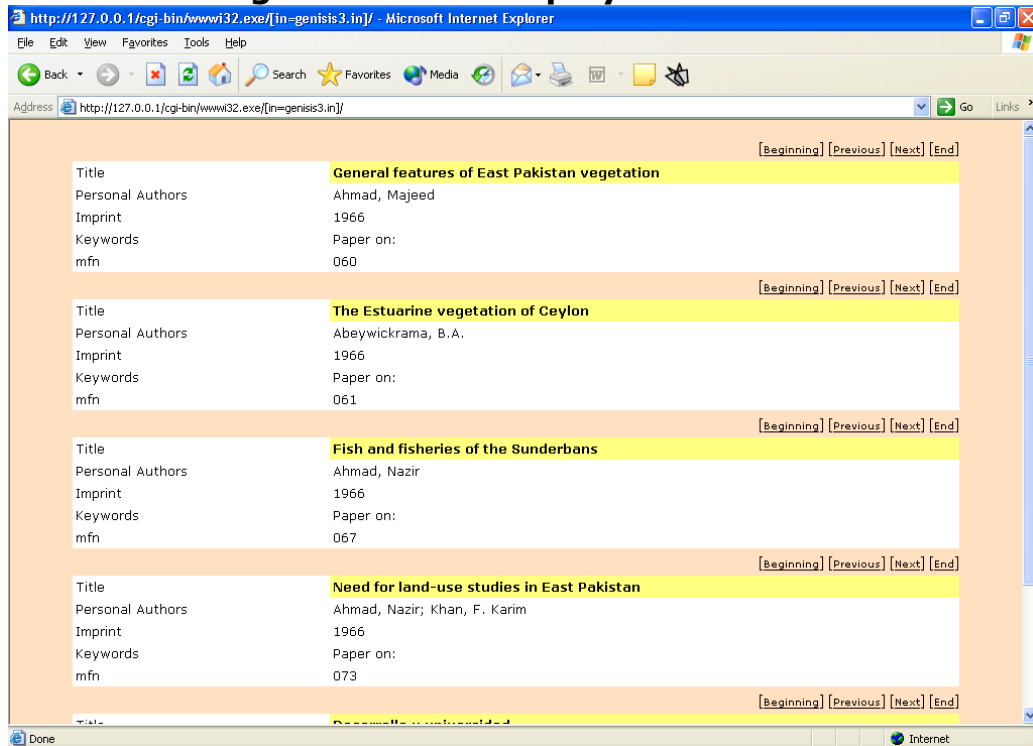
Fig. 43 – Detailed display on the web

After you design this if you are on an intranet you can allow the others to search on the database by providing your IP address. You also can export this database and web interface to a server on another computer.

05.03 Exporting to a web server

Click on the application and select export to the web server (Fig. 44).
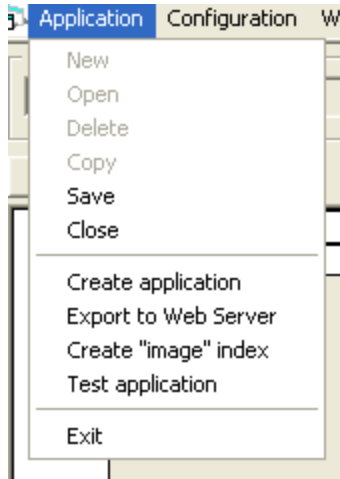
Then you will get a dialogue box (Fig. 45 & 46) According to the instructions given in this you have to select the path to export. You can export to a UNIX or Windows server.

Then click **OK**

Fig. 44
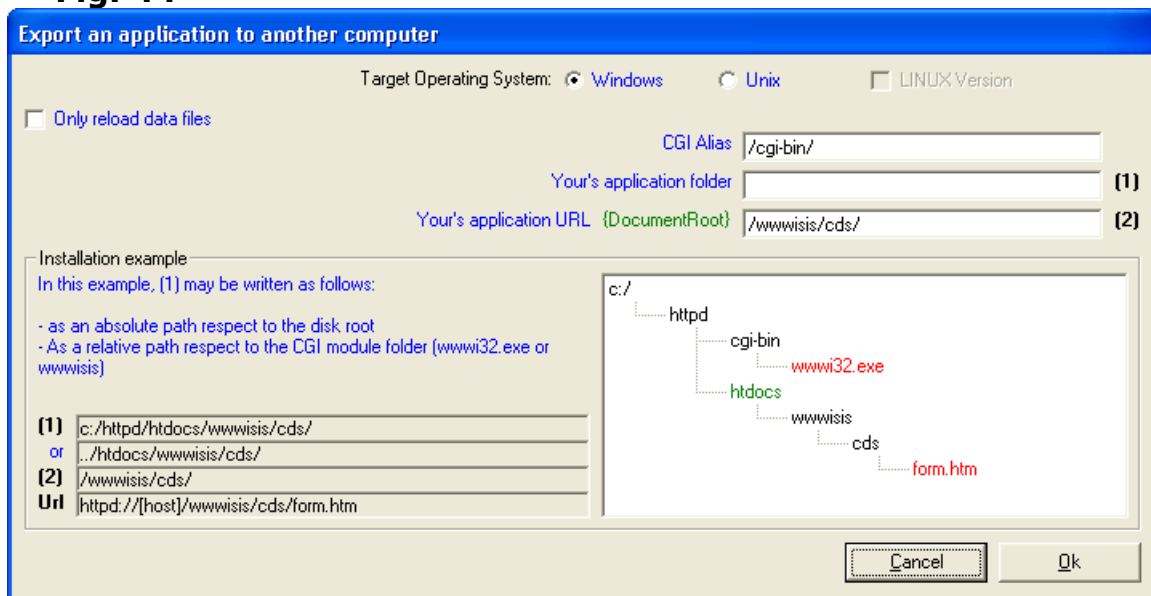
Fig. 45 (Path for Windows server**)**

Then you will get another dialogue box (Fig. 47), which gives all the instructions on how to copy the files to the server. Get a print out of this before closing it and follow these instructions to copy the files to the server.

Fig. 46 (Path for Windows server)

Fig. 47

A web interface compiled with GENISIS (previous version) is accessible online at http://thakshana.nsf.ac.lk/wwwisis/purna/form.htm