(Draft Manual)

CREATION OF DIGITAL LIBRARIES
IN CD-ROM USING WINISIS AND GENISISCD

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CREATION OF DIGITAL LIBRARIES USING *WINISIS* & *GENISISCD*

Creation of database of a set of full text documents

Winisis, window version of the CDS/ISIS software of Unesco originally developed for creation of cataloguing (bibliographic) database, allow us to develop searchable digital library of fulltext documents and that can be burned in to a CD-ROM using another free software *genisisCD*.

Creation of digital library is possible due to an inbuilt provision for display of hyperlink in a field in the winisis database, which can be connected to any full text document. A click on the hypertext link will result in opening the linked document automatically.

That means you can create a database of a digital collection, which displays a hyper link on one field and while clicking on the link in the field, you can open the full text of the document automatically, if you have kept the digital collection in a folder and the path to the documents are provided in the winisis database field correctly. This is made possible by using a command 'link…. …OPENFILE' in the print format. The resultant digital management program would have the features of a digital library. The digital library thus created can be burn into a cd-rom using *genisisCD*.

2.1 How to make the prototype digital library using Winisis?

In order to create a sample digital library, you need to have a few full text documents in a specific location in your computer preferably in a folder. Then create a database of the above digital documents in Winisis as given below as a sample with the following fields.

10 Author
20 Title
30 Keywords
40 Source

Database creation using Winisis is very easy and automatic. To start with, you need to provide the **Tag number** (10, 20, etc) and **Field name** (Author, Title etc) of your choice as given in figure 1.
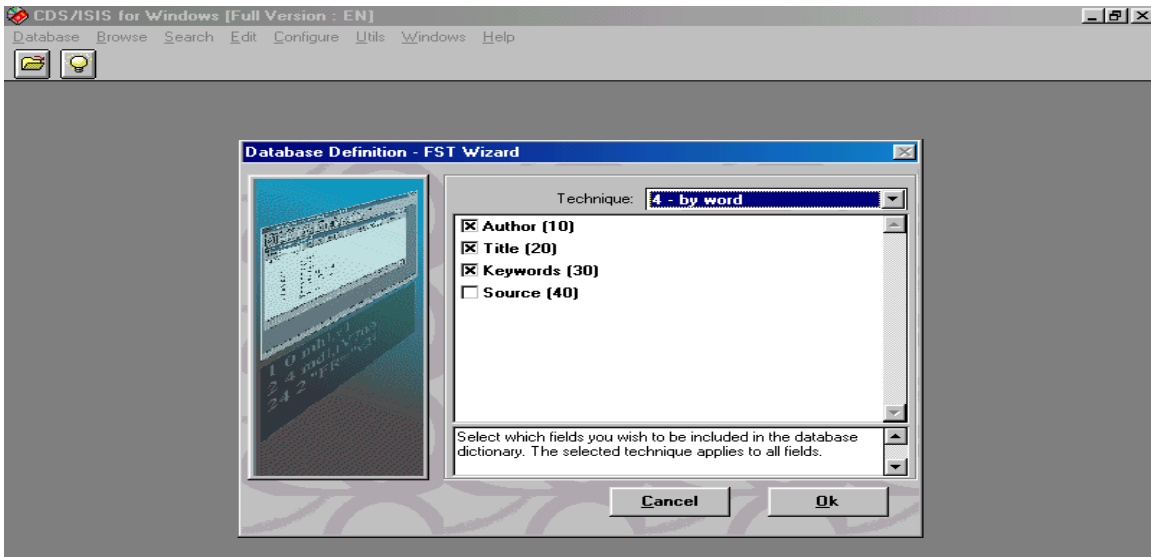
Figure 1 Field Definition Table
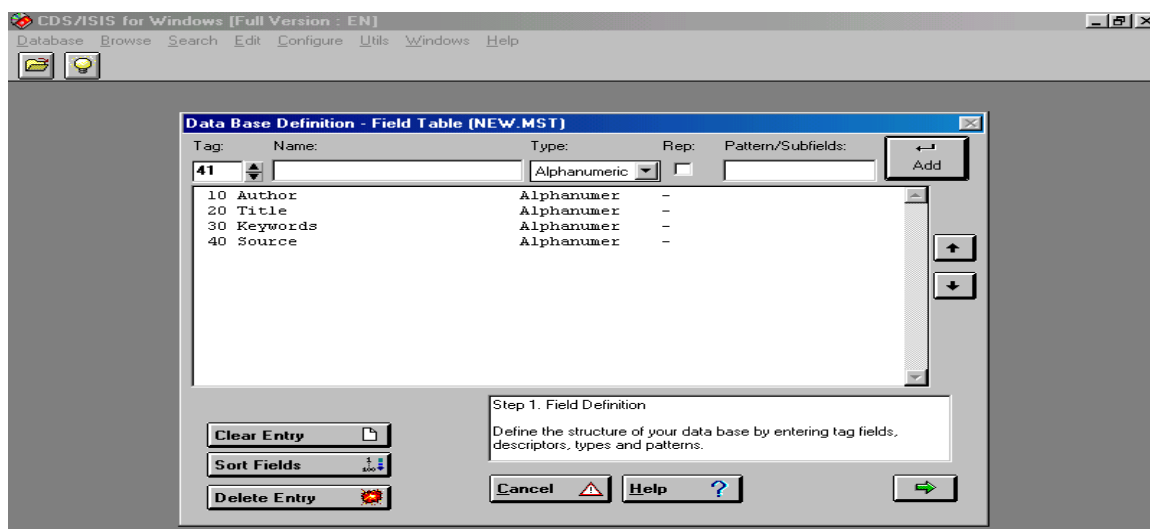
Then choose the fields that need to appear in the data entry worksheet by selecting the **Field Name** on the right pane and then clicking the side arrow key as in Figure 2.
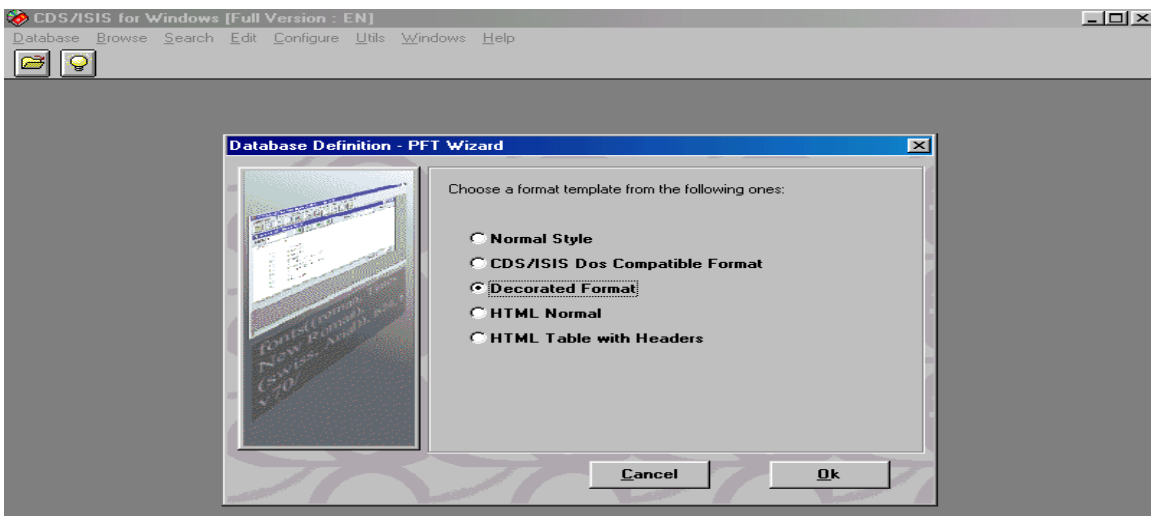
Figure 2 Data Entry Worksheet
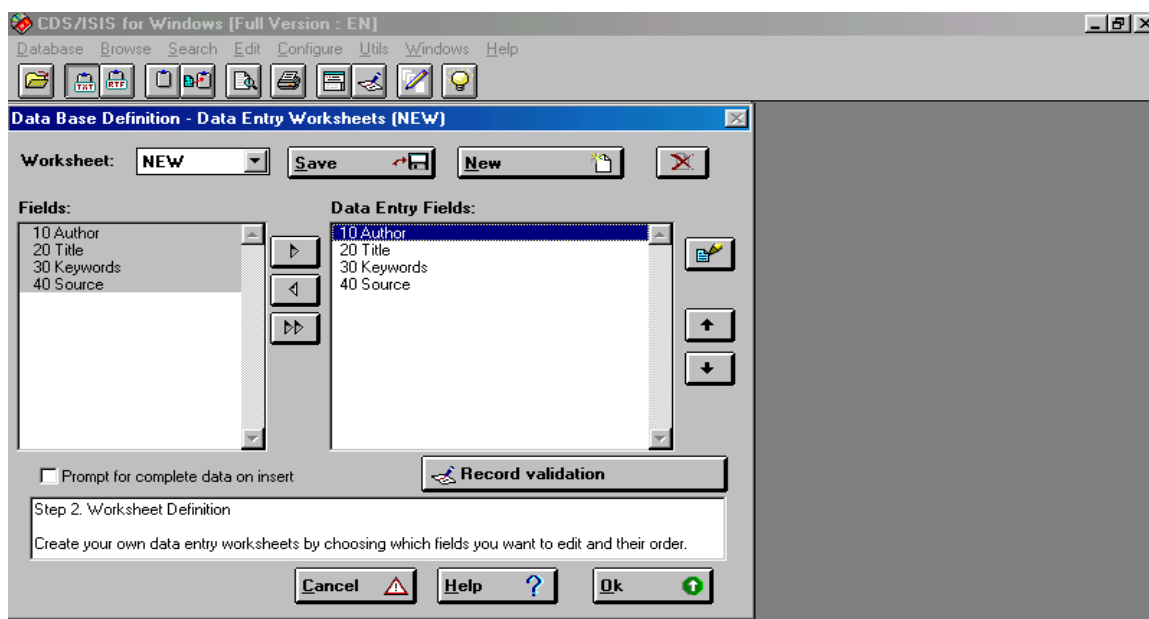
Then click ok button and you may choose the indexing technique in the Field Selection Table as Figure 3.
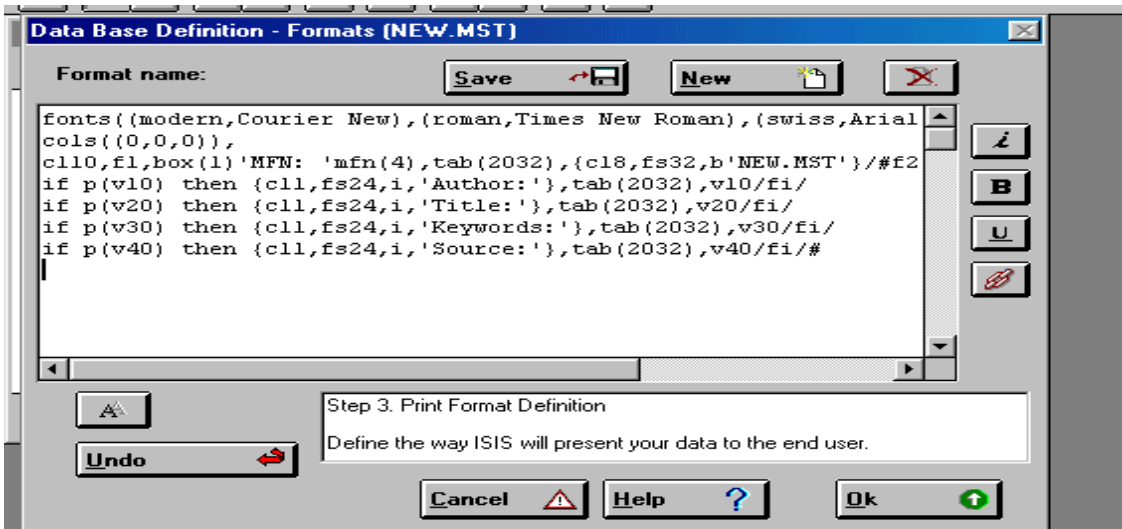
Figure 3 Field Selection Table

Then click **OK** button and launch Print Format Assistant and the n again click **OK** button, to get the following print format choices.

Figure 4

Then select the appropriate print format and click **OK** button to get the print format screen as in Fig 5.

Figure 5 Print Format

In the print format lines, you may add the following formatting line inorder to create a hypertext link with the words **Click Here** that will be connected to the full path, provided in the tag 40**.**

Link (('Click here'), 'OEPNFILE ', v40)

Ensure that there must be a space between the OPENFILE command and the single quote, and the command should be written in upper case as shown above. The command means that, when you click on the 'Display full text' link, the click will automatically result in opening the file denoted in the field v40, in a new window

The resultant print format would appear as in Figure 6.

Figure 6
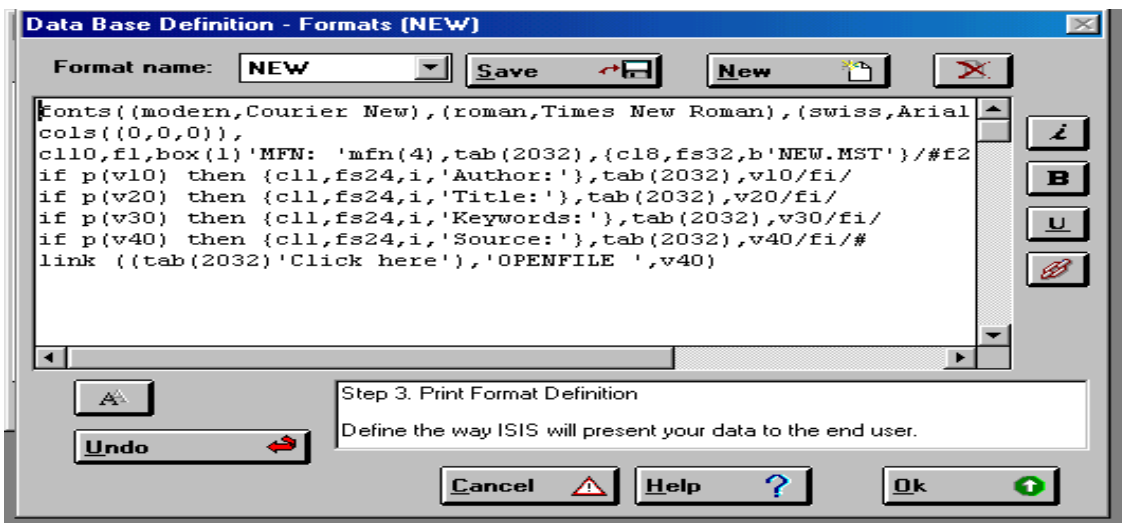
The print format of the above database is as follows

fonts((modern,Courier New),(roman,Times New Roman),(swiss,Arial)),cols((0,0,0)),
cl10,f1,box(1)'MFN: 'mfn(4),tab(2286),{cl8,fs32,b'NEW.MST'}/#f2,cl4,m(2032,-
2286),cl4,fs30,
if p(v10) then {cl1,fs24,i,'Author:'},tab(2032),v10/fi/
if p(v20) then {cl1,fs24,i,'Title:'},tab(2032),v20/fi/
if p(v30) then {cl1,fs24,i,'Keywords:'},tab(2032),v30/fi/
if p(v40) then {cl1,fs24,i,'Sourcefile:'},tab(2032),v40/fi/
link ((tab(2032)'Click here'),'OPENFILE ',v40)

Now creation of the database is over and you need to enter the data by opening the winisis and then clicking the **Data entry** under **Edit** menu. Then you will get the following screen in Figure 7.
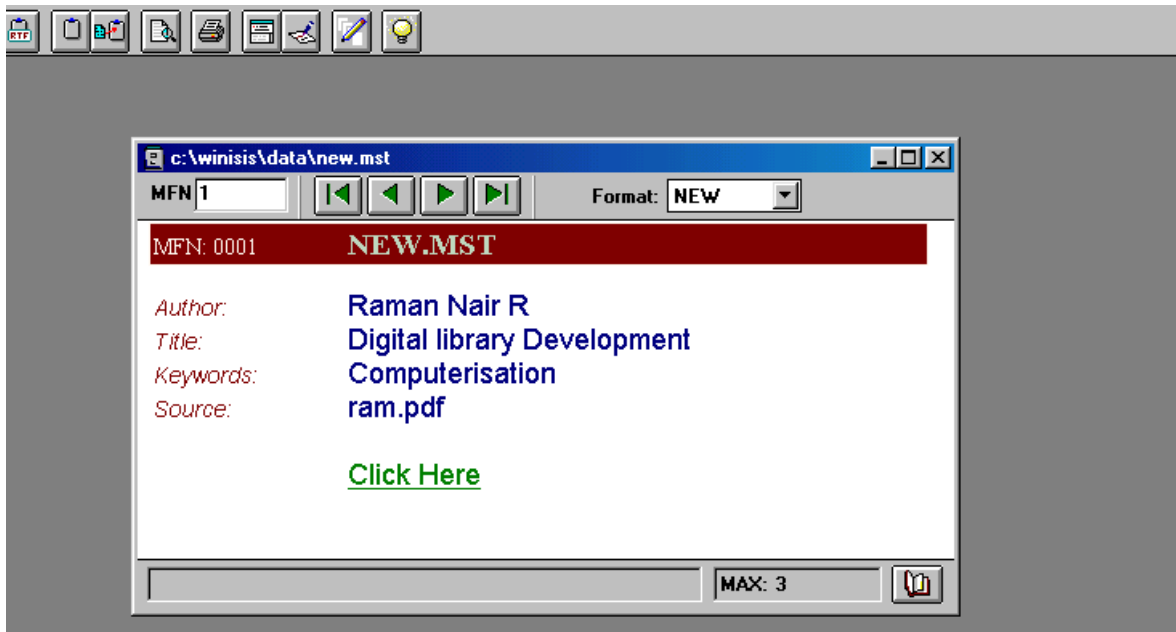
Entering Data in the Database

Figure 7 Data Entry Window
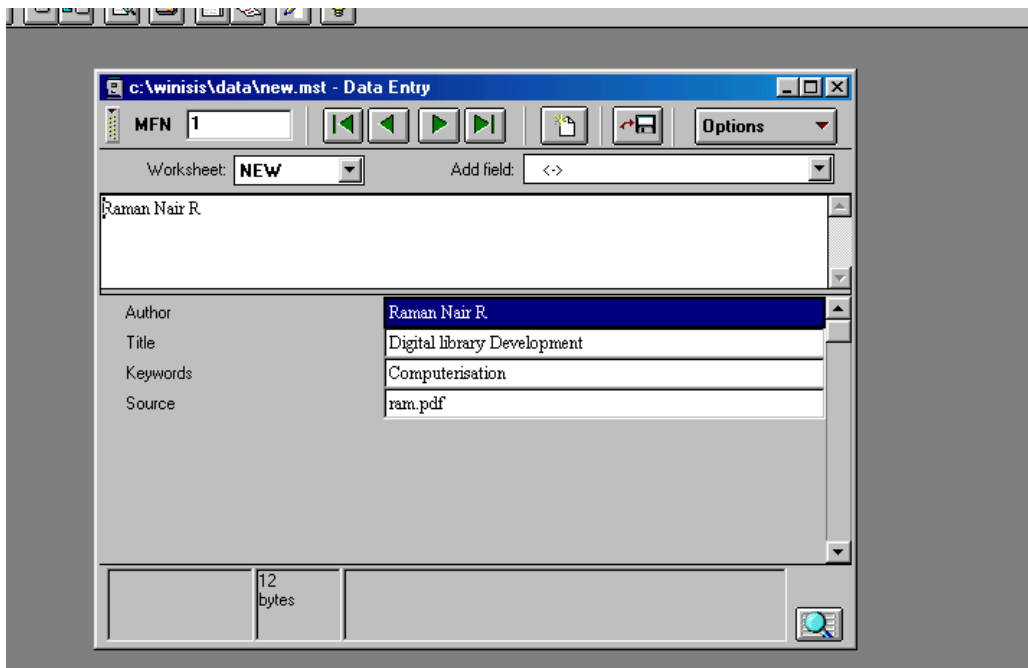
Enter the full data about the digital collection including the document name of the fulltext documents including extension (.pdf, .doc etc.) in the Field 40 **Source** and the resultant database display will be as follows in Figure 8.

Figure 8

Making winisis database into a self installing CD-ROM

Installation of the GenisisCD

Download the genisisCD program from the Unesco website and unzip the file. When You unzip the zipped file, you will get the following three files
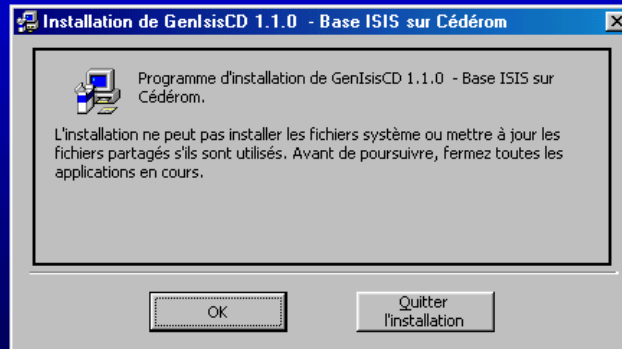

Then, double click on setup.exe file as above

Then you will get the first screen in the installation process as follows:-
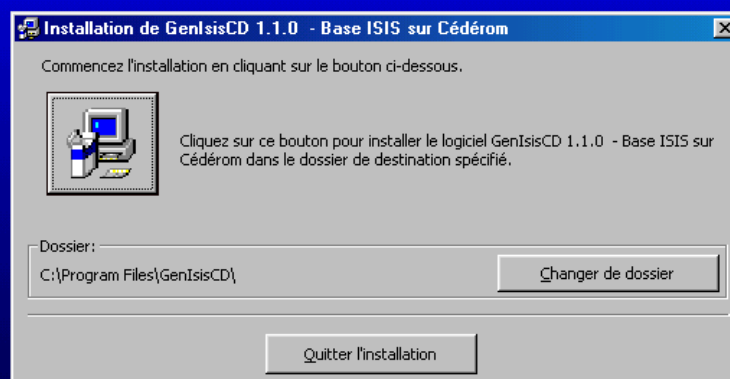
Figure 9

Click on the **OK** button and you will be lead to a screen as in Figure 10 as follows:-

Figure 10

Click on the **icon on the left side** and you will get the following screen:-
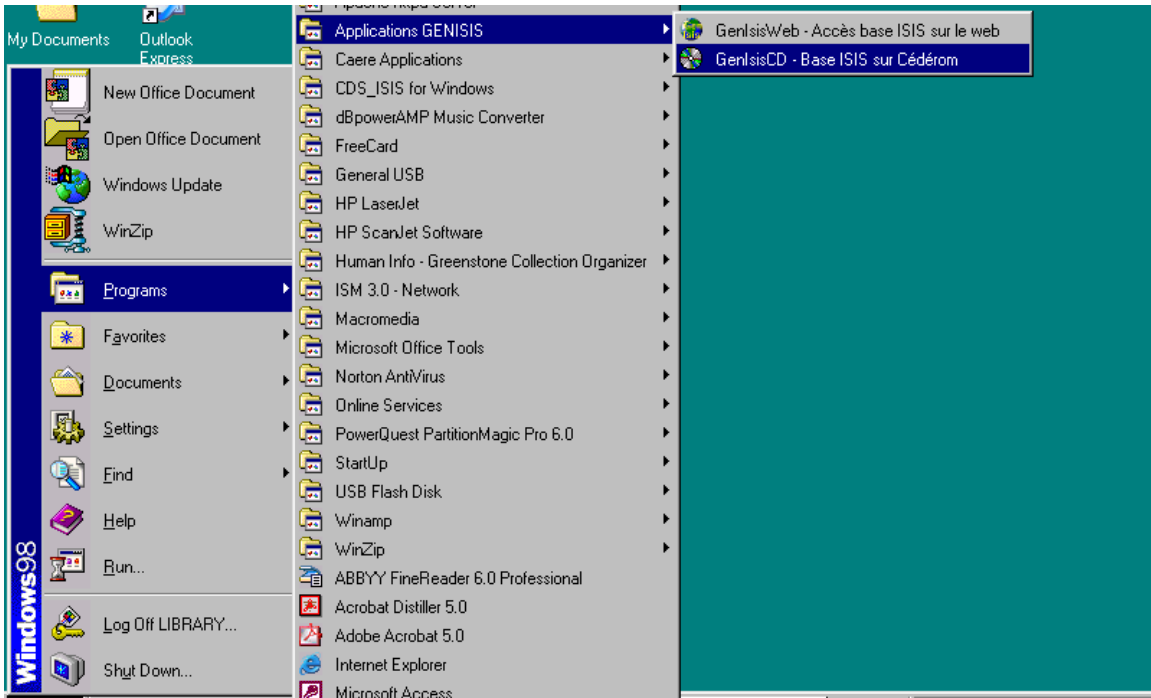
Figure 11
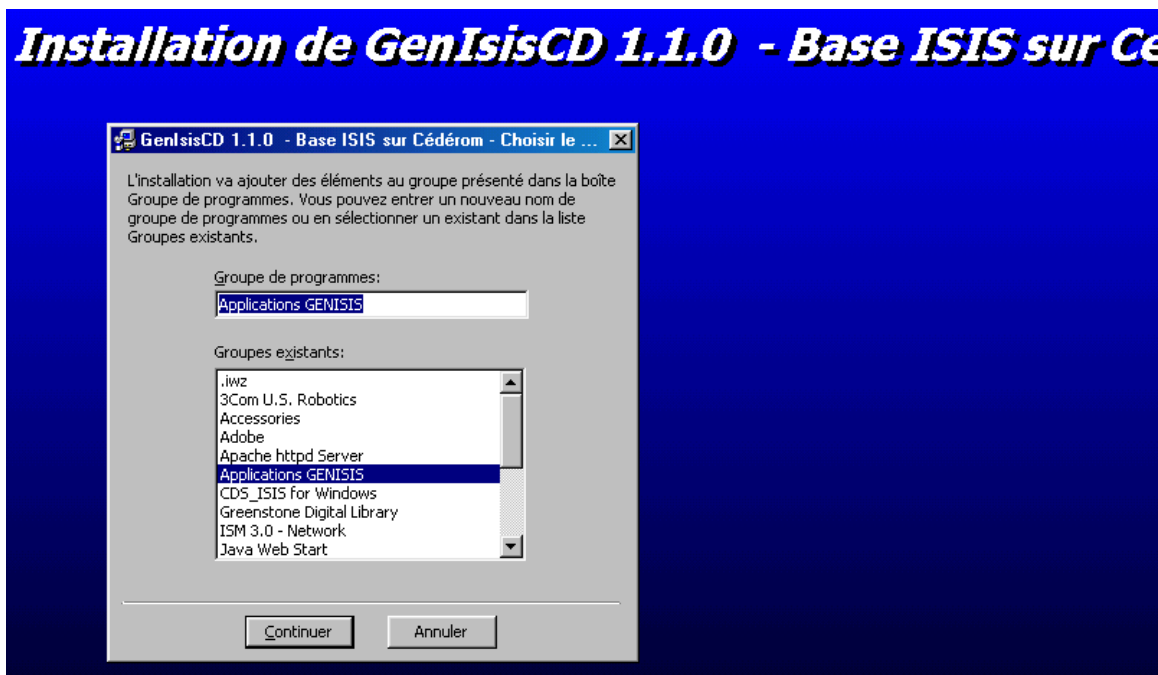
Then click on the continue button and you will be notified of the successful installation of the program. Then click on the **OK** button to finalize the installation.

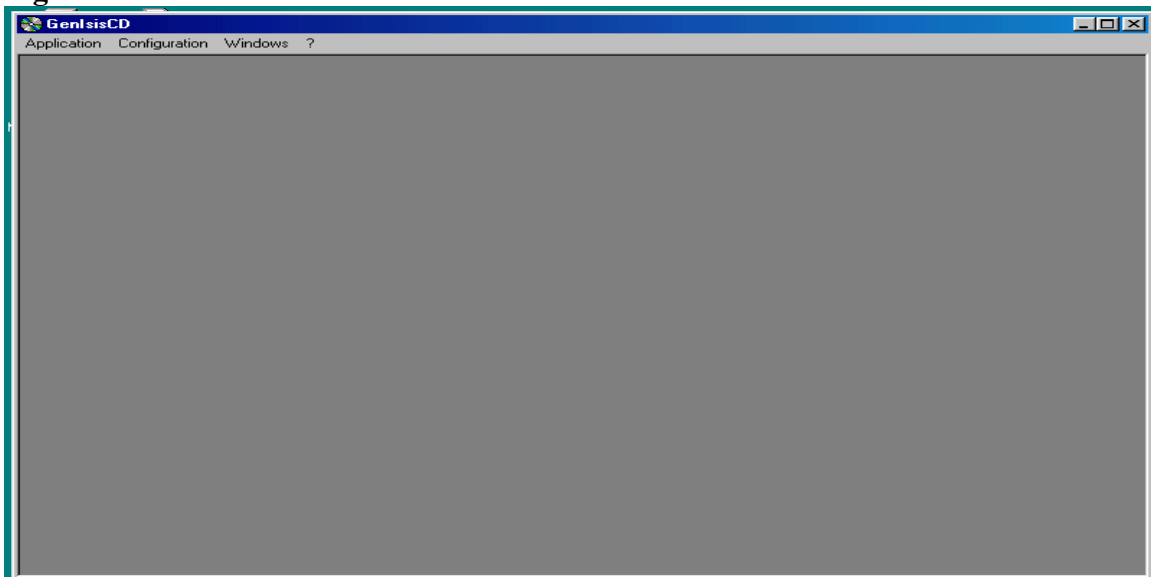## Creating files for burning the cd-rom using genisisCD

To start genisisCD, go to **Start\Programs\Applications Genisis\GenisisCD-Base ISIS.**
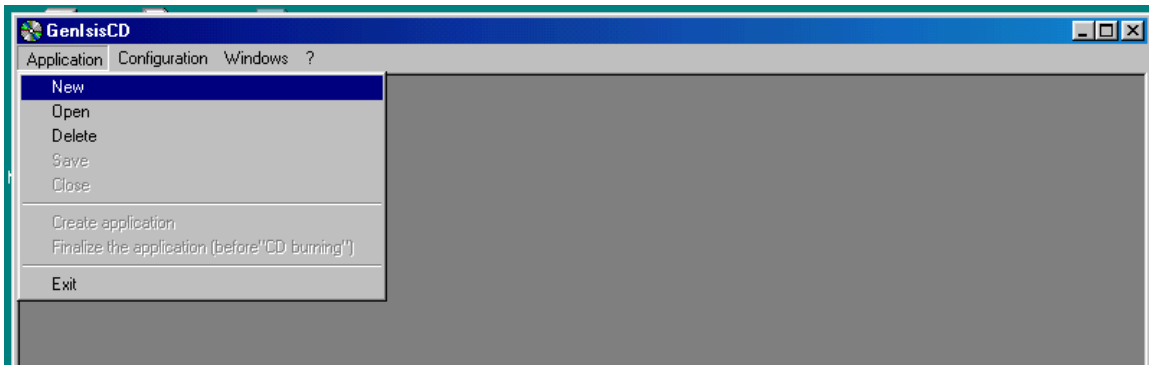
Figure 12

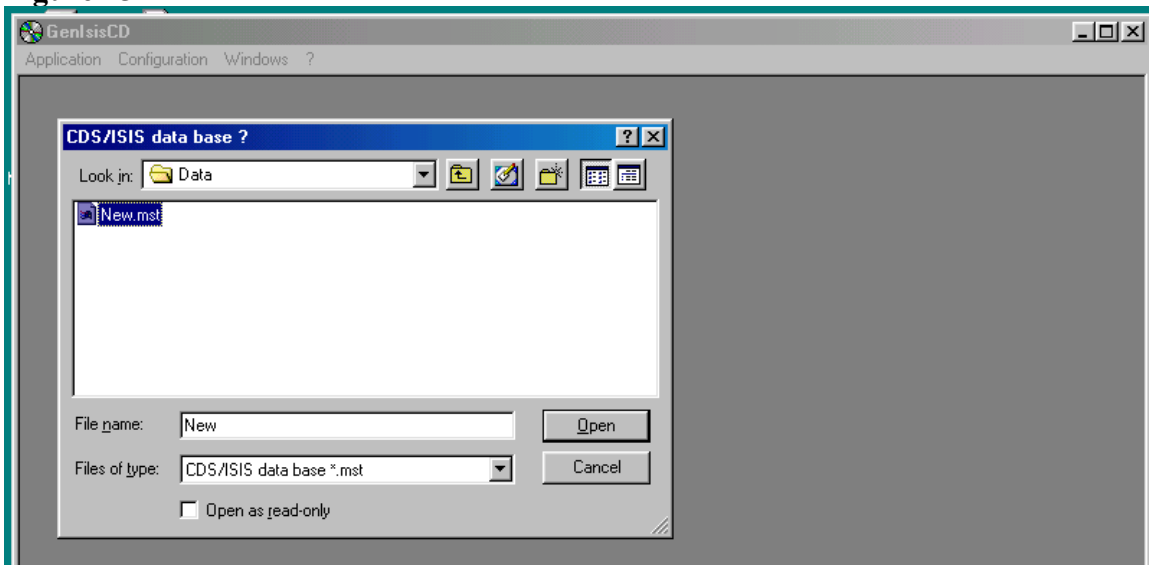Then you will get the following screen in Figure 13

Figure 13

Open the installed Genisis CD program and click on **Application** menu, select **new**
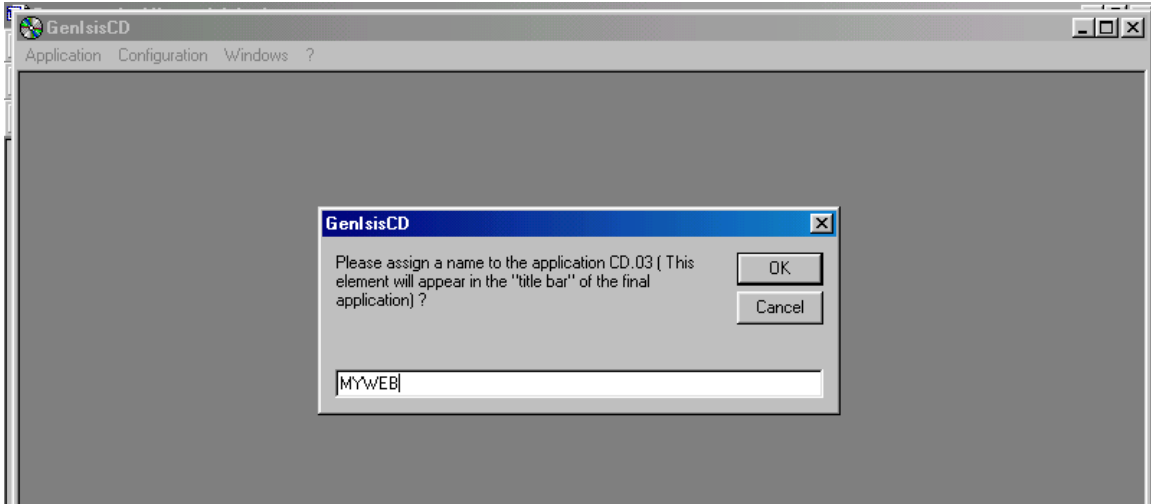
Figure 14

Then the following screen will appear. and you can choose the database(.mst file) you want to burn into cd-rom by highlighting the database name and clicking on **open** button below.

Figure 15

Select the **MST** file then click **'OPEN'** button and you will get a screen like as follows.
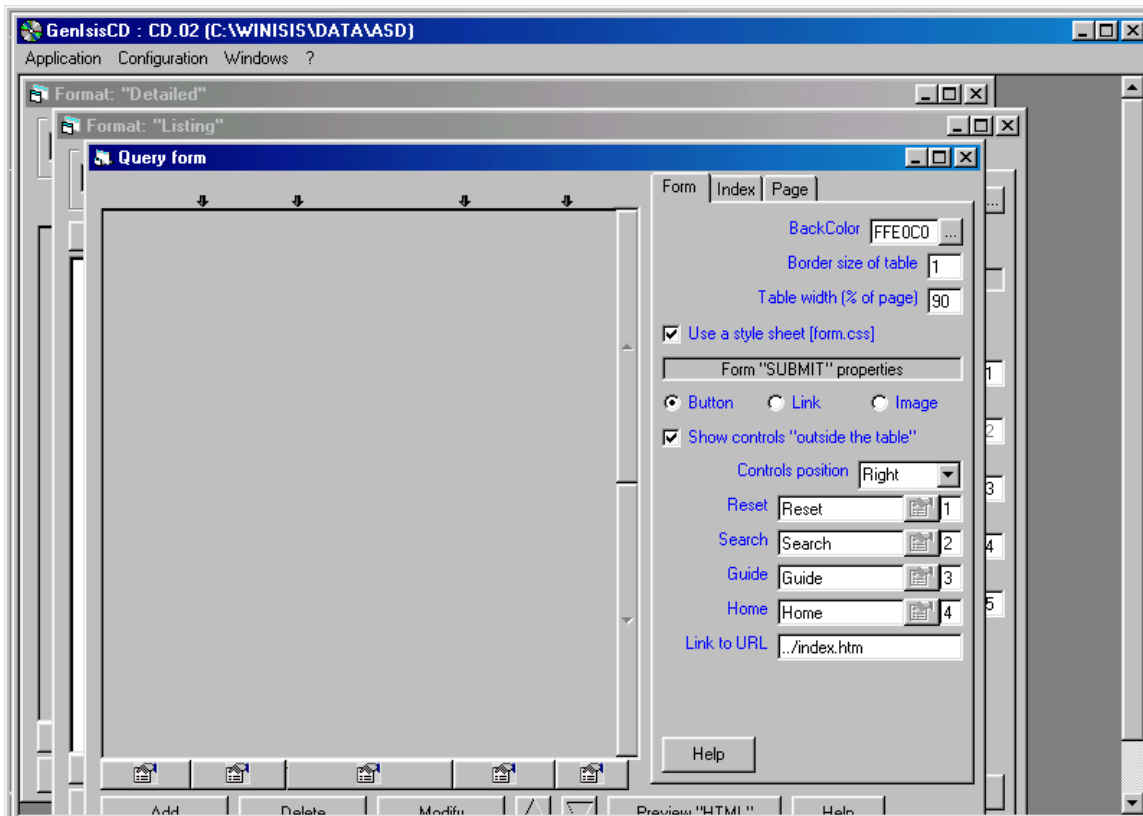
Figure 16

Give a name for your application like **MYWEB** and click **OK**.

Then, you will get three window forms one over the other: **Query form**, **Format 'listing'** and **Format 'details'**

Figure 17

Query form: allow you to design the web like *Query Form* (a front end search form) with a search box for searching the database with any search term. It also helps you find the indexing terms included in the inverted file of your database, for selecting the appropriate search term.

Format 'listing': allows you to design a *short display format*. A user can select the Detailed Display format from this *Short Display Format*

Format 'details': allows you to design *Detailed Display Format.   This manual doesn't deal with Format 'details'.*


Using these three formats, you will have to design your Query form, Short Display Format and Detailed Display Format

Design the query form

Query Form is the front end form for making a search .It should contain a search box and a submit button.

In order to design the query form, You have to select and add fields from your database to this application. To do that Click on **add** button at the bottom of the query form in Fig

Figure 18

13
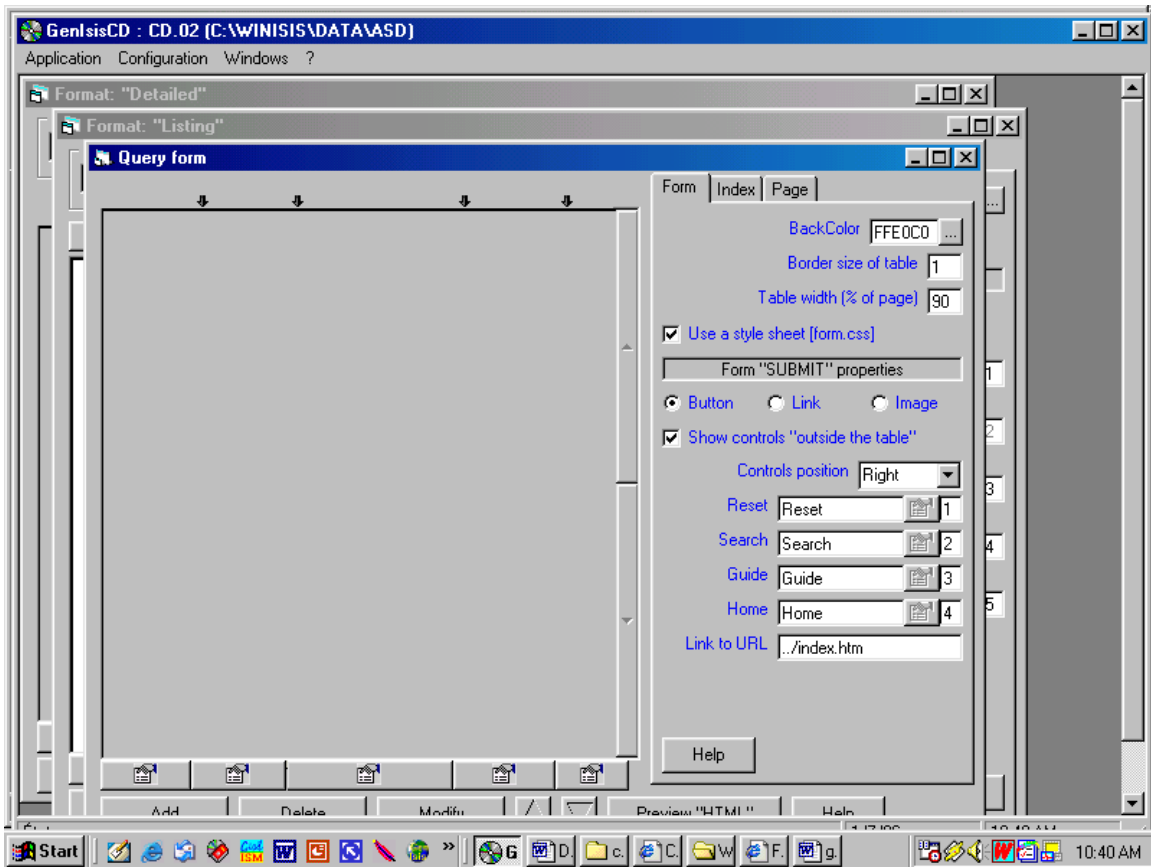
When you click on **add** button you will get the following window in Figure,

Figure 19

The items appearing on the left panel are the fields you had included in your winisis database by choosing the Field Selection Table

In the above screen, you can select only one field at a time to appear in the Query form. If you want to select more fields you have to click on "**add"** and select another one again until you put all fields. As well, you can select options to select operators and choice of icon for the index.

In the above screen, it is preferable to select **'All fields**" from the left panel (as it allows search by any term in the index of the database) and then click **ok**

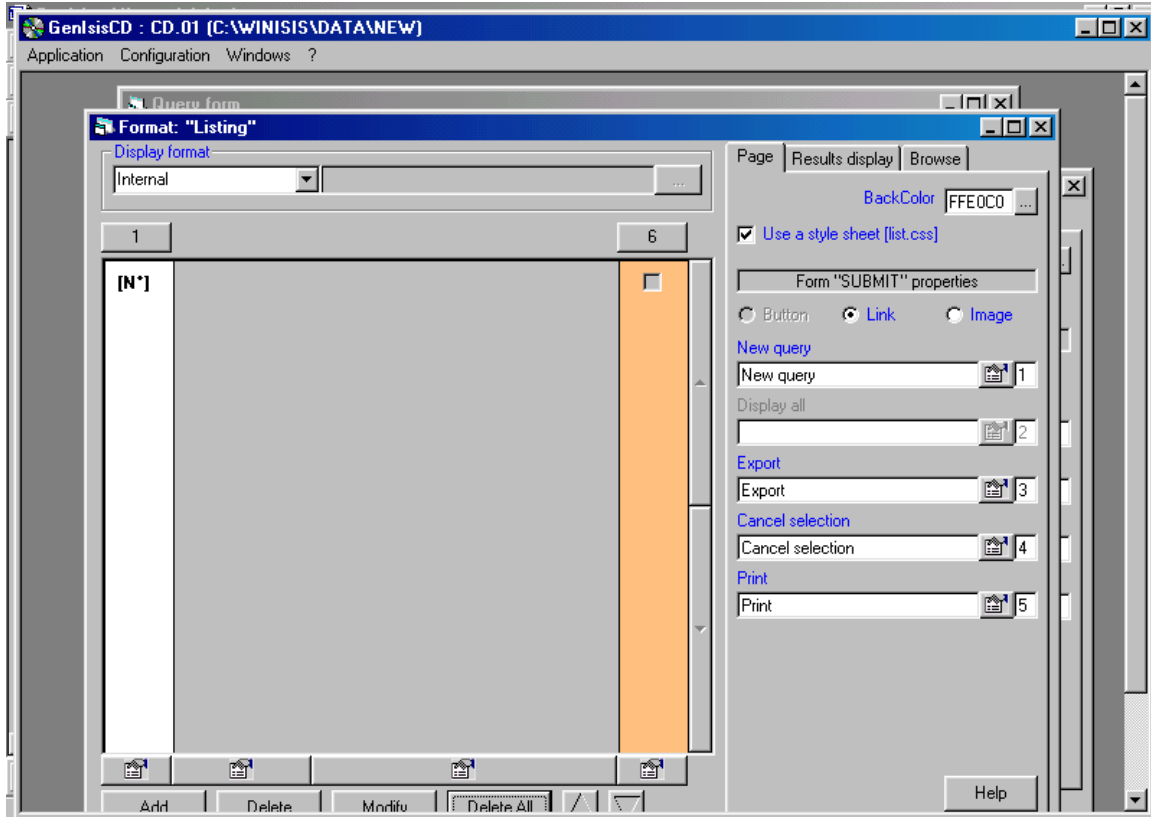Then, you will get the following window.

Figure 20
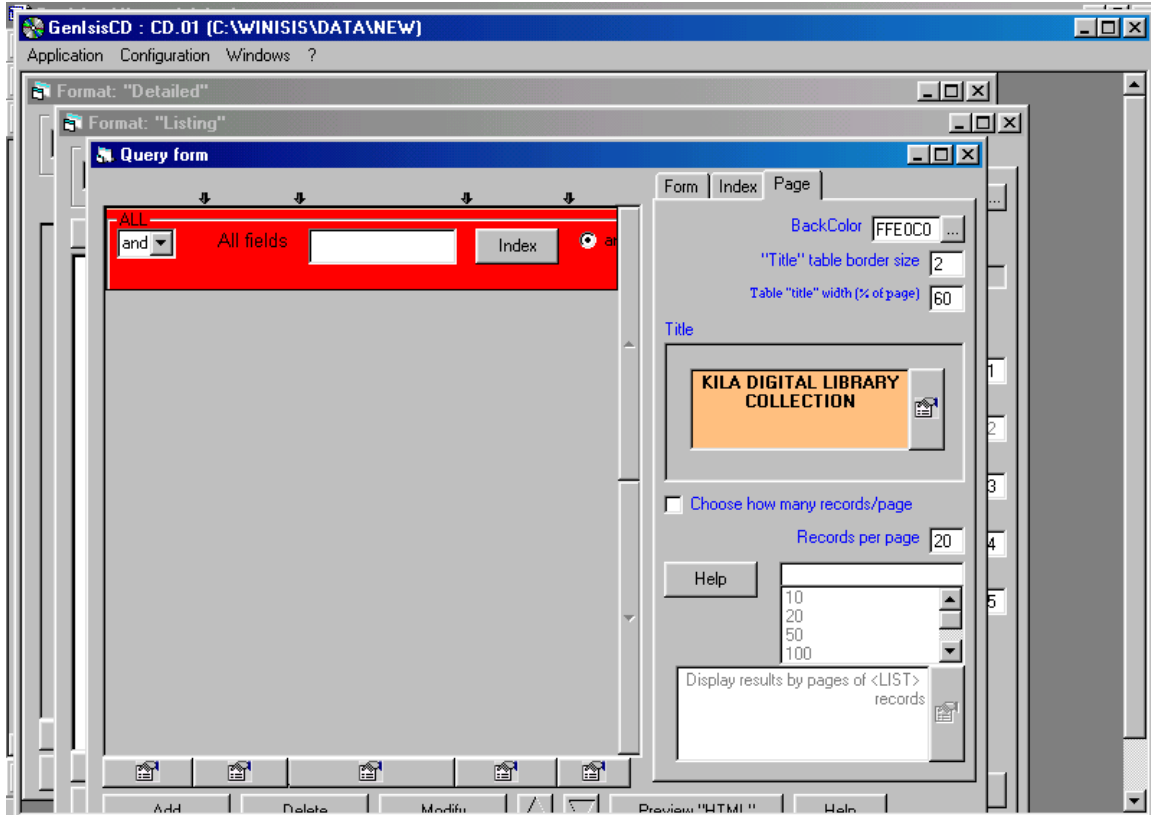
Select any or all the three tabs **Form**, **Index** and **Pag**e appearing on the right side of the above screen for appropriately choosing the 'look' of the Query Form, Index Page and Display Page. You can play with these options and choose anything to get a beautiful look.

Designing format 'listing'

Then click on the 'Format-listing' window, you will get the following default form
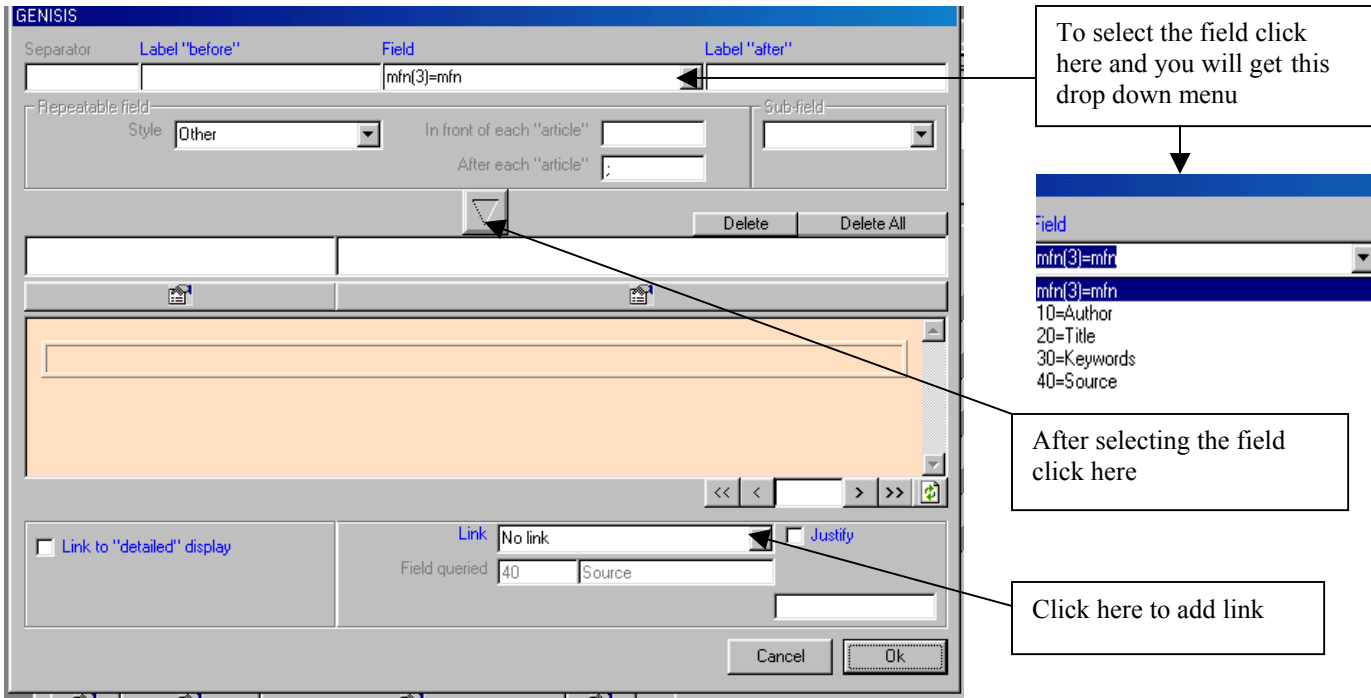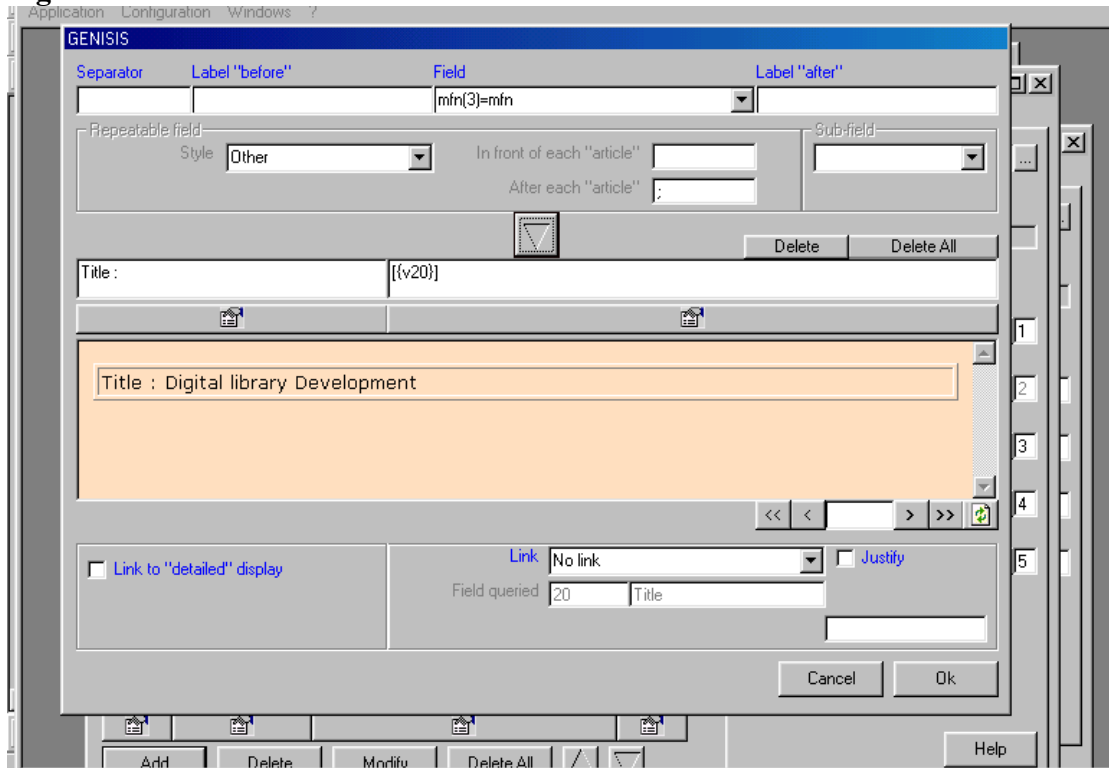
Figure 21

Click **Add** button at the bottom and you will get the following window.

Figure 22

From the above screen, select the appropriate **Field** in the drop down menu and then click the down arrow button at the middle and then click **OK** button Then select the next Field by clicking **Add** button till all **Fields** except **Source,** are selected.

Figure 23

Then select the **source** that provides the name of the full text document as below.

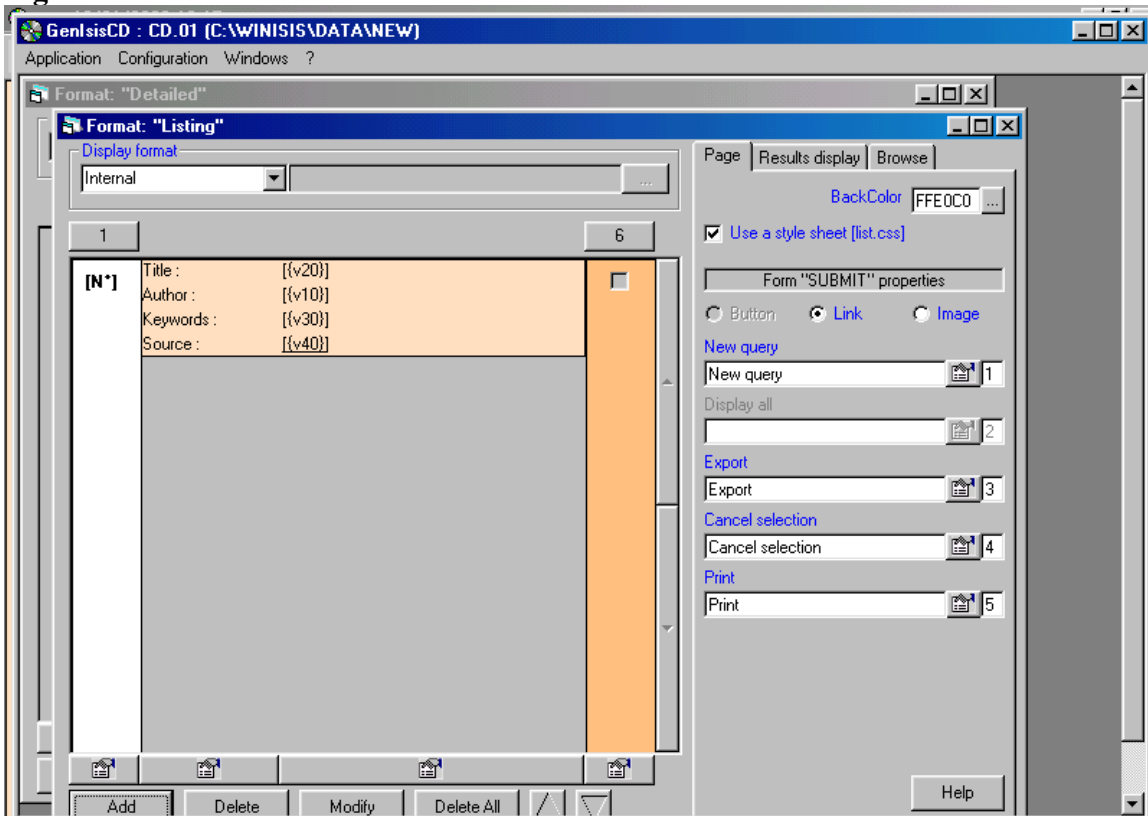**Figure 24**
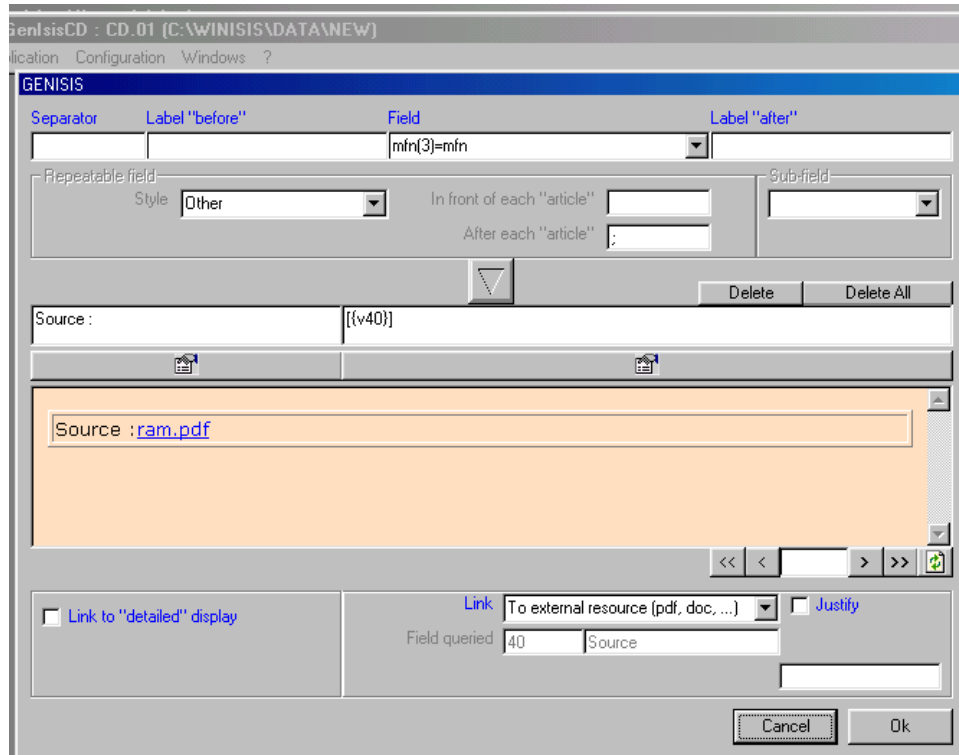
Select the field name **source** from the drop down menu under **Field** as above and click the **down arrow** button at the middle as above so as to display the **source** file name *ram.pdf.*

Then select the drop down menu against **link** and select **'To extend resource (pdf. doc…**), if the full text documents are pdf, doc, html etc. Then you click **Ok** button to save it.
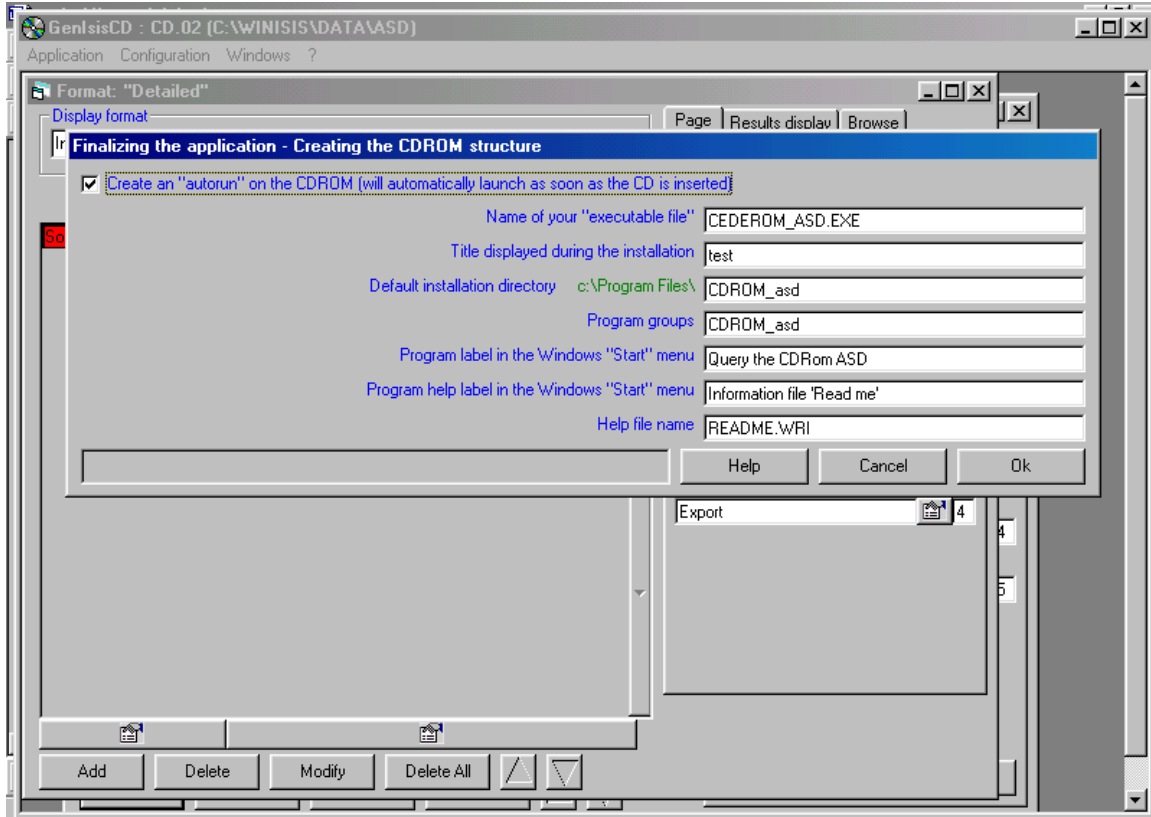
Figure 25

Then click **"Add"** button below and click drop down arrow below the **Field** and select which field you want to display and click **Ok**. If you want to add one or more fields click **Add** and select another new filed to continue.

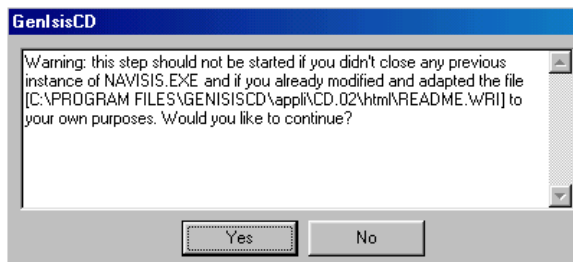**Finalizing the application**

After designing two forms (Query form, format 'listing'), you may click **'Finalize the application'.**

Figure 26

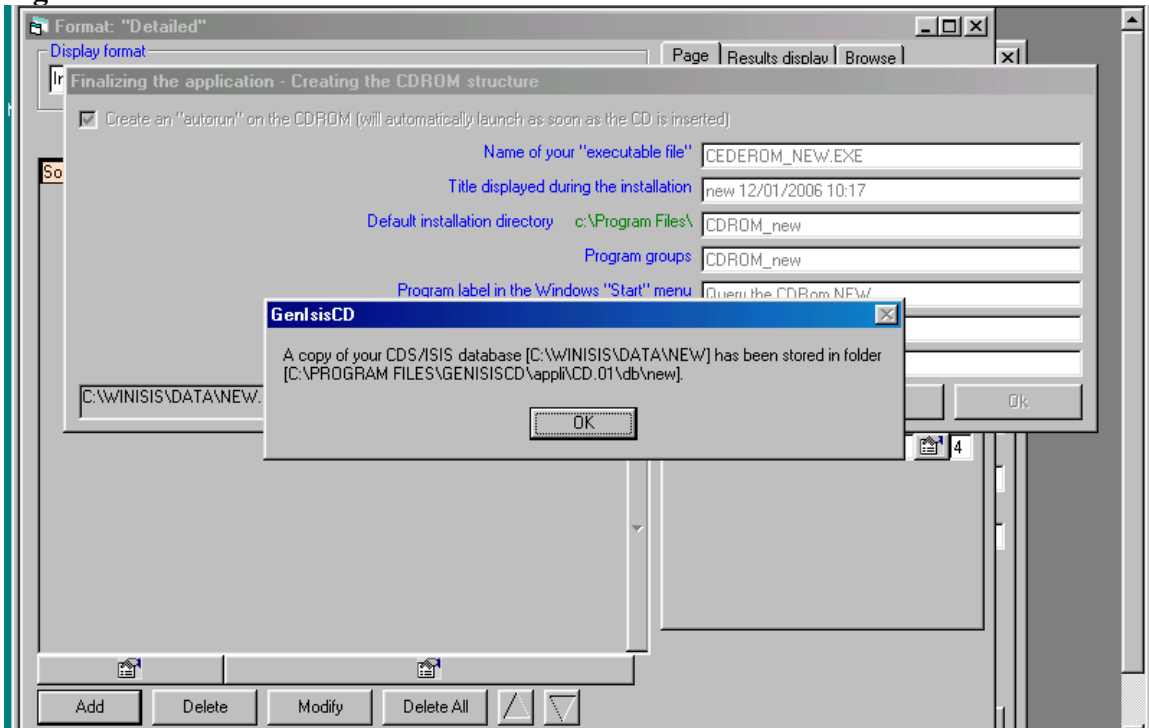Click **OK** button in the above screen in order to get the following screen.
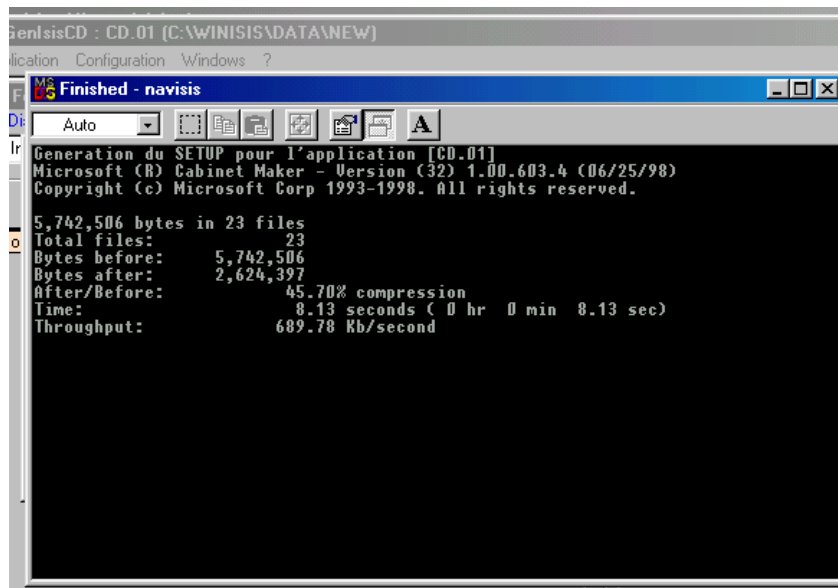
Figure 27

Click **Yes** in the above screen to get the following screen

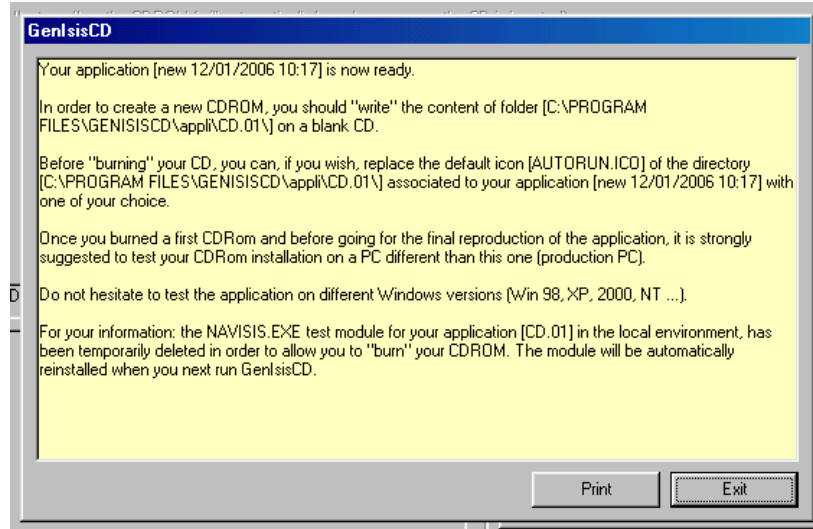**Figure 28**

Click **OK** button in the above screen in order to get the following screen.

Figure 29

Allow the above screen to run till its end and the click the **close button** (**x**) to close the program and to get the following screen

Figure 30

GenIsisCD

Your application [new 12/01/2006 10:17] is now ready.

In order to create a new CDROM, you should "write" the content of folder [C:\PROGRAM FILES\GENISISCD\appli\CD.01\] on a blank CD.

Before "burning" your CD, you can, if you wish, replace the default icon [AUTORUN.ICO] of the directory [C:\PROGRAM FILES\GENISISCD\appli\CD.01\] associated to your application [new 12/01/2006 10:17] with one of your choice.

Once you burned a first CDRom and before going for the final reproduction of the application, it is strongly suggested to test your CDRom installation on a PC different than this one (production PC).

Do not hesitate to test the application on different Windows versions (Win 98, XP, 2000, NT ...).

For your information: the NAVISIS.EXE test module for your application [CD.01] in the local environment, has been temporarily deleted in order to allow you to "burn" your CDROM. The module will be automatically reinstalled when you next run GenIsisCD.

Print   Exit

Click **Exit** to close the above window to close your cd-rom generation process.

Final step

Then copy your full text documents to **html** folder at the 'C:\Program Files\ GenIsisCD\ appli\CD.01\html.

Then delete the **index.html** in the folder C:\Program Files\GenIsisCD\appli\CD.01\html

Then copy **form.html** in the folder C:\Program Files\GenIsisCD\appli\CD.01\html\ base_*databasename*_01   and   paste   it   to   the   folder   C:\Program Files\GenIsisCD\appli\CD.01\html. Then change the name of **form.html** as **index.html**
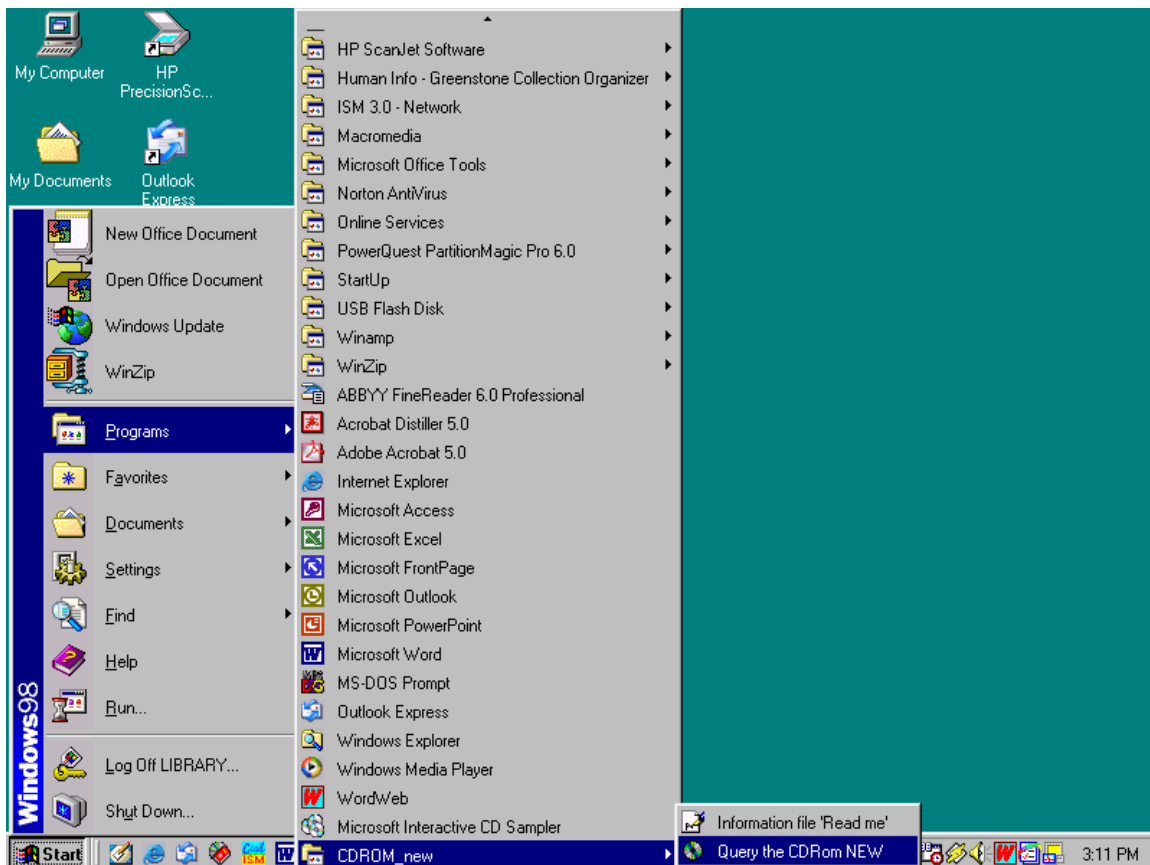
Then you may write contents in the folder **C:\Program Files\GenIsisCD\appli\CD.01** on a new blank CD. You may put the new cd-rom into any computer and the following screen will appear automatically.

Figure 31
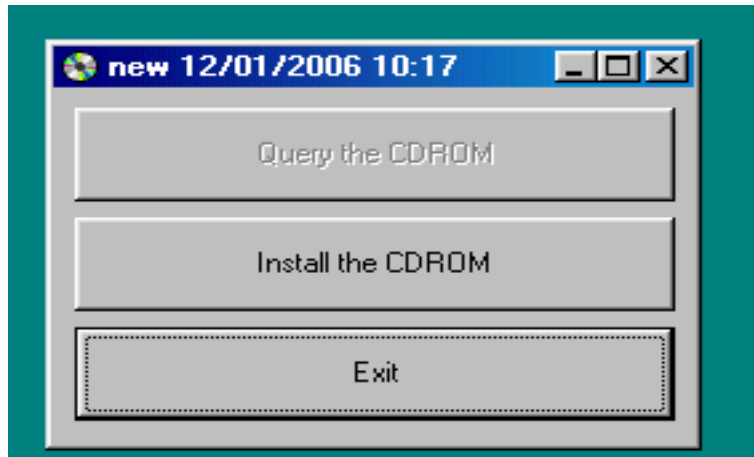
Click on the **Install the CDROM** button and follow on-screen instructions to install the program.
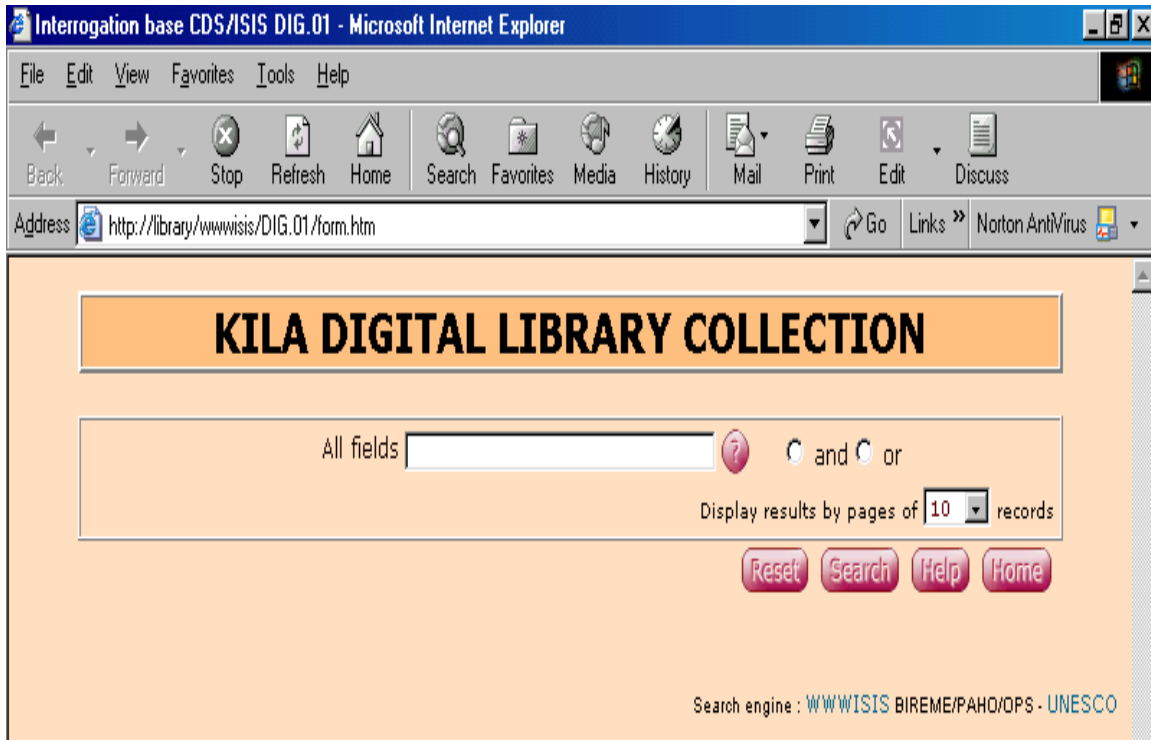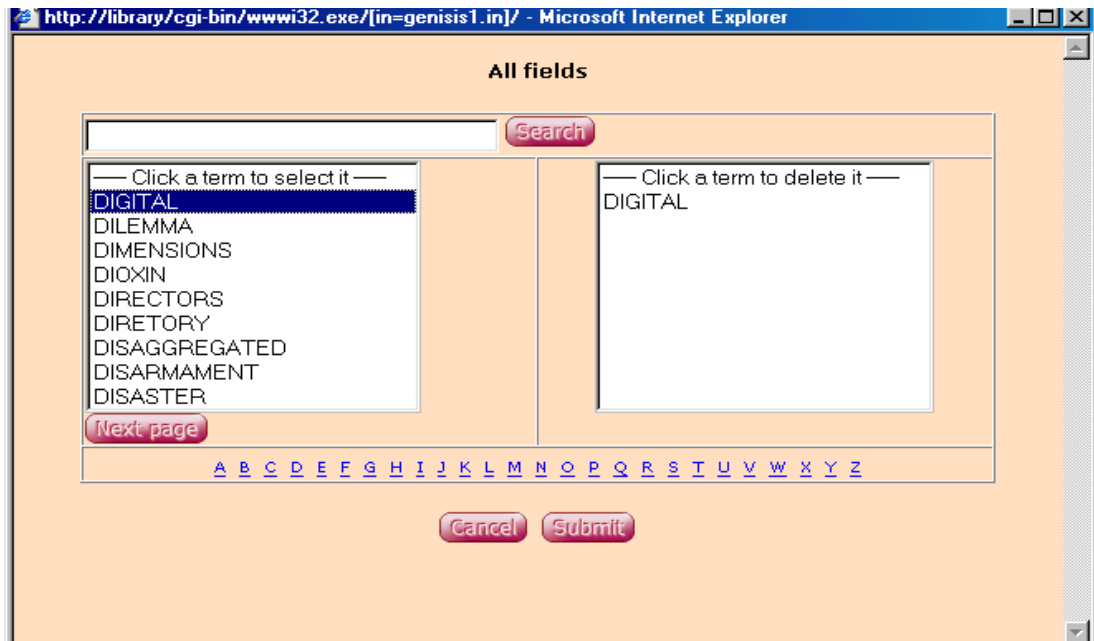
Figure 31

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Then go to **start/programs\cdrom_new\query the cdrom new**" to open the query form as follows

Figure 32 Search page of Genisis CD

If you click on the index button, the following screen will appear.

Figure 33 Index page

You can select an appropriate indexing term from the inverted file index of the database by typing any letter, letters of words in the search box above and click **search** button. Then click on any term and click on the **submi**t button to submit the search term to your main search box of the query page in Fig 32 so that you can make a search with a definite indexing term in the inverted file index.

Figure 34 Search window
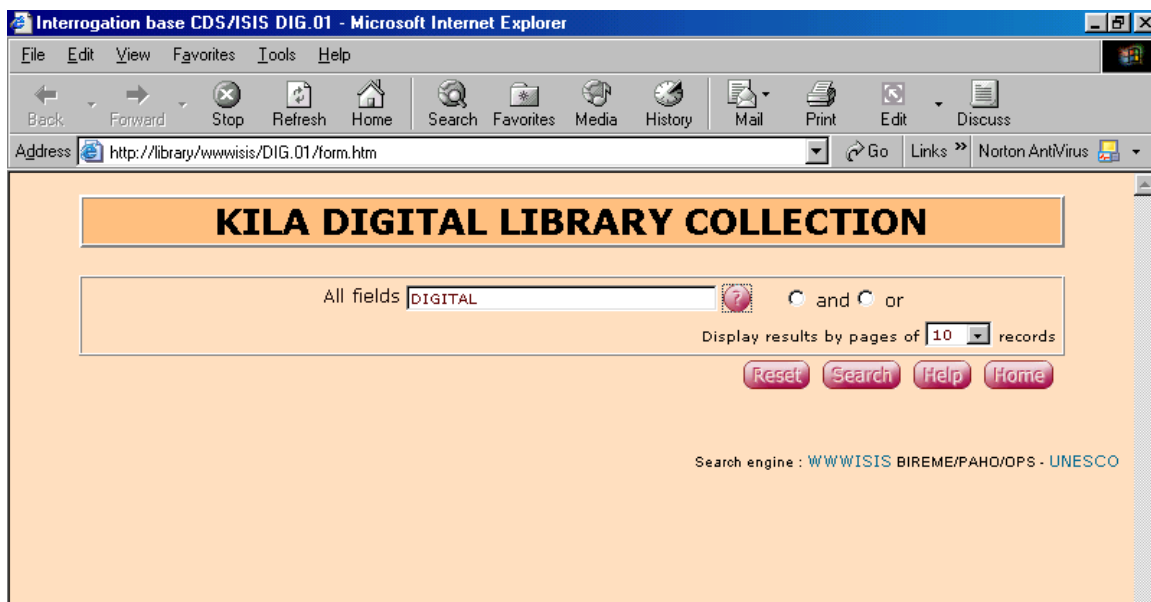
Figure 35 Search result window
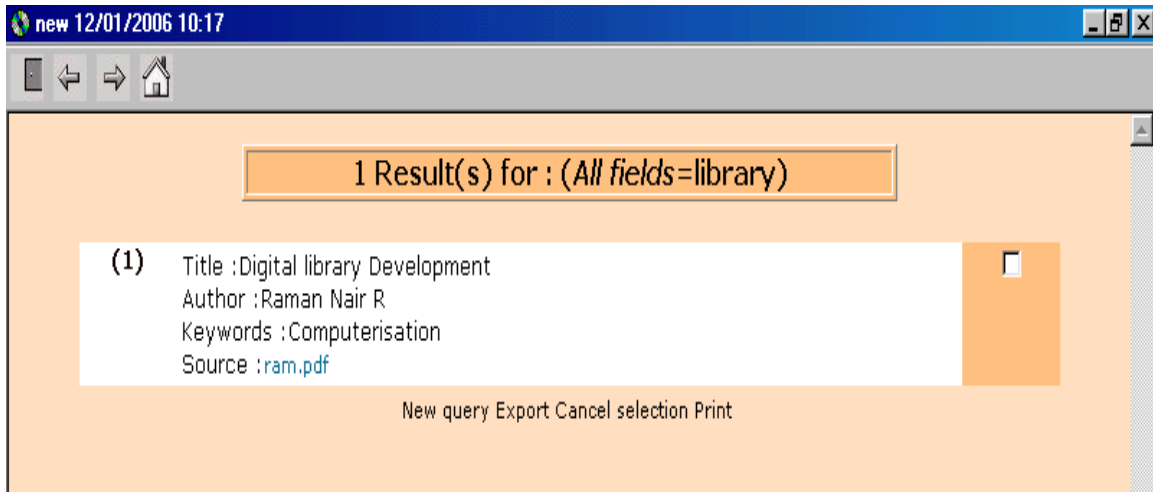
If you click on the *link (*on *ram.doc* above) in the field **Source** provided above, the appropriate document would be get opened, automatically, in a new window.

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