

COLLEGE MANAGEMENT SYSTEM USING SAP ABAP



**A PROJECT REPORT
(SAP ABAP WORK BENCH CONCEPTS - 40 SA T02)**

Submitted by

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*In partial fulfillment of the requirement
For the award of the degree*

Of

**BACHELOR OF ENGINEERING
K.S.RANGASAMY COLLEGE OF TECHNOLOGY
TIRUCHENGODE – 637215**

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE, New Delhi)

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this Project report titled “**COLLEGE MANAGEMENT SYSTEM USING SAP**” is the bonafide work of **M RAJIK AHAMED (1614175)** who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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Submitted for the viva-voce examination held on

Internal Examiner

DECLARATION

Certified that this Project report titled “**COLLEGE MANAGEMENT SYSTEM USING SAP**” is the bonafide work of **M RAJIK AHAMED (1614175)** who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Signature

M RAJIK AHAMED

Place: Tiruchengode

Date:

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ABSTRACT

College management is an integrated web application to handle various academic and non-academic activities of hostel. The system can access by every student, faculties, and employees of the institution through internet connected computers. This system provides the detail structure of the college campus and its departments. College Management System synchronizes the working of all the departments. It looks on all aspects of a Hostel, its students, faculties, Departments, marks and other co 'curricular activities'. MS is the easiest way to manage all functionalities of a college. College Management Software is a simple yet powerful one joint integrated platform that connects all the various departments of an institutionalize administration, attendance, Staff details and many more specialized modules.

CHAPTER	TITLE	PAGE NO
	ABSTRACT	05
1	SYSTEM ARCHITECTURE	03
	1.2 MODULES	04
	1.2.1 Table Creation.	04
	1.2.2 Login	
	1.2.2.1 User Side	
	1.2.2.2 Admin Side	
	1.2.3 Screen Designing.	14
	1.2.4 Coding.	18
	1.2.5 Data Retrieval	21
	1.2.6 Output	22
	Conclusion	26

SYSTEM ARCHITECTURE

SAP Campus Management is designed to support the management of teaching and studies in general, and the progress of each individual student. The application is flexible to adapt to changing institutional needs and new technology, while supporting the traditional core processes of the student life cycle.

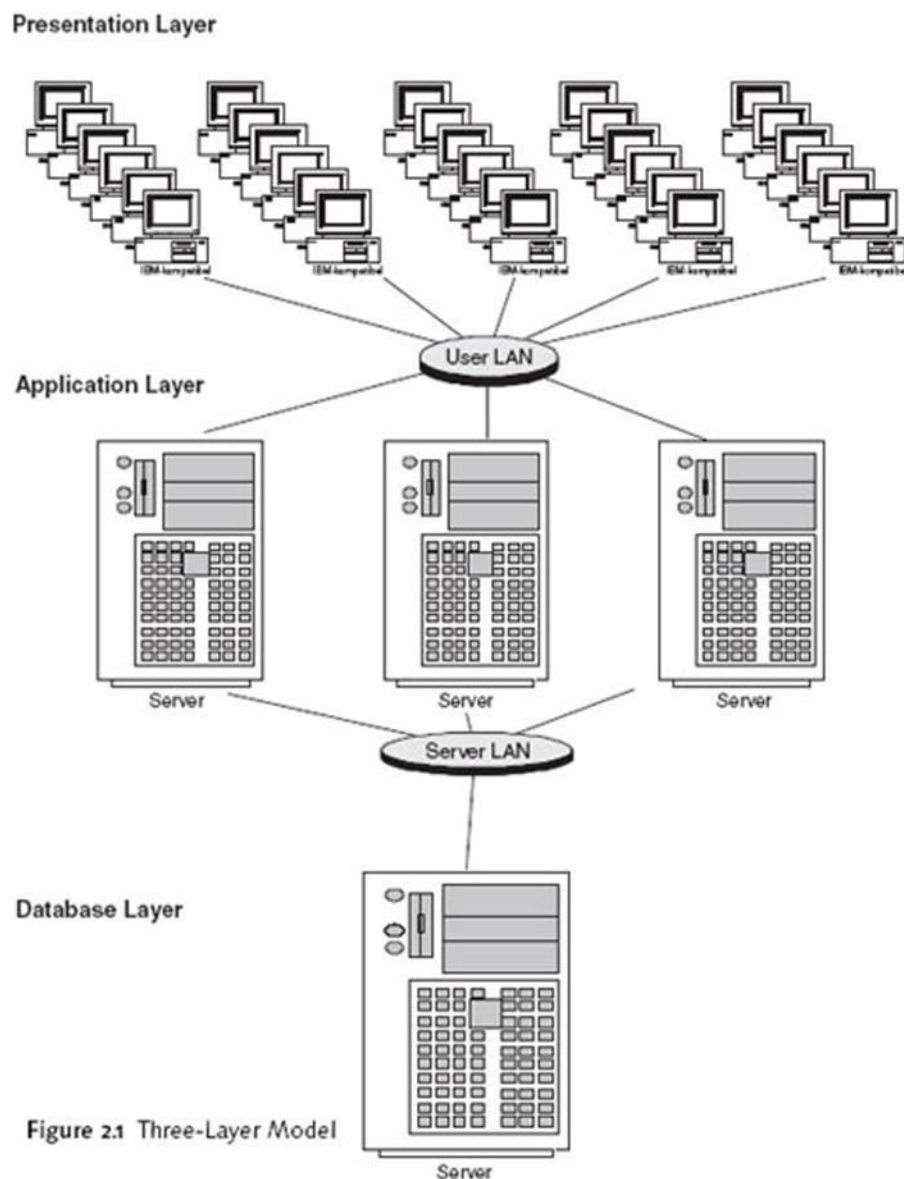


Figure1: SYSTEM ARCHITECTURE

1.2. MODULUS

1.2.1. Steps to create database table:

Step 1 - Enter new table name

Using transaction SE11, ensure the "Database table" radio button is selected and enter a name for your new table into the input box. For this example I am going to create a table called ZCOLLEGE.

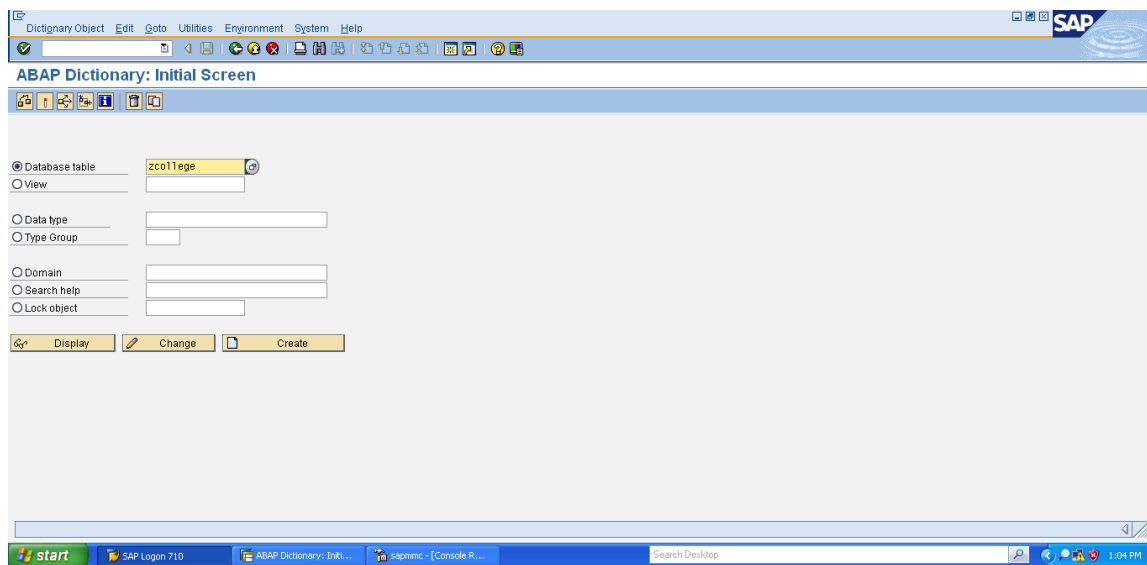


Figure2: Database table

Step 2 - Enter basic details

With the 'Delivery and Maintenance' tab enter a short description, set delivery class to A and choose Display/Maintenance Allowed for the 'Data Browser' option. See table settings for more details about these options and their effects on the table.

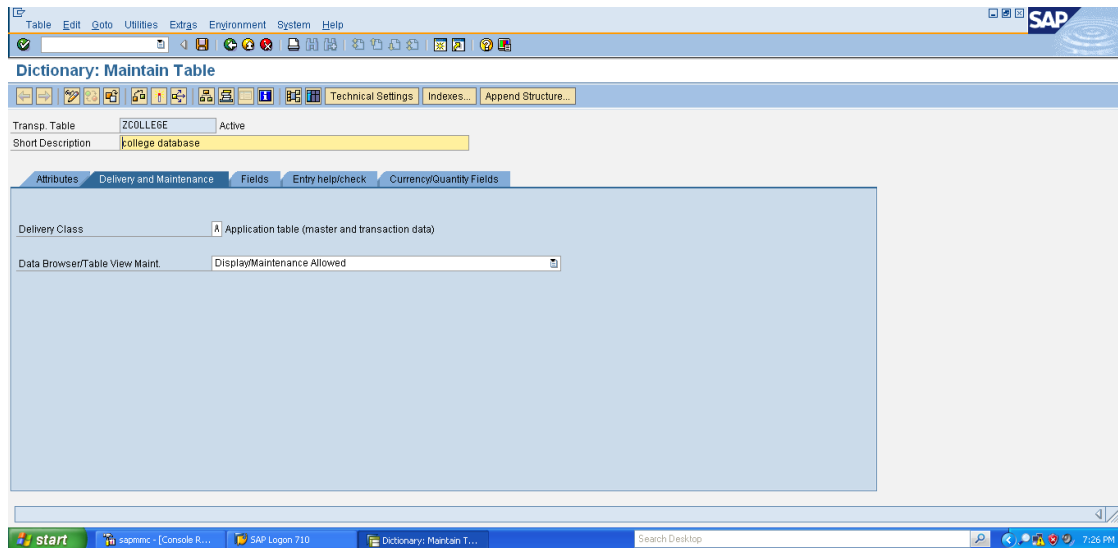
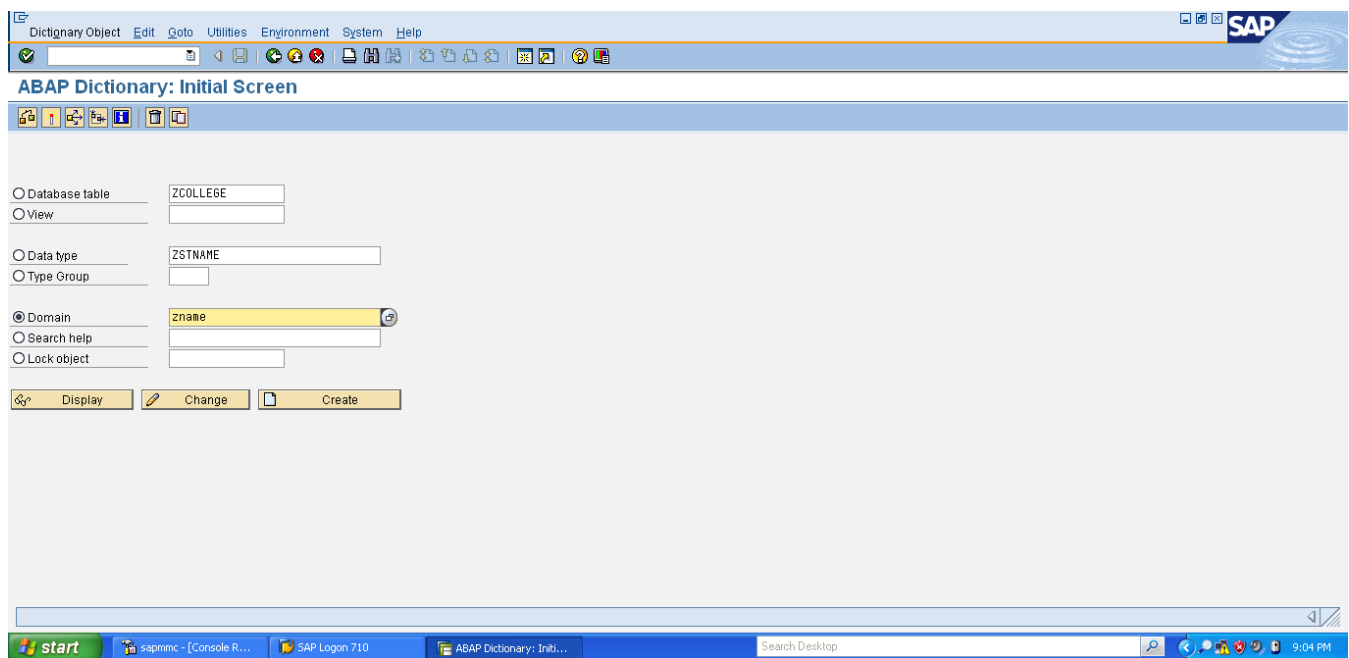


Figure3: basic system

Step 3 –create Domains

Now go to domain tab. Create domains such as zname .similarly create domains needed for the database table.

Finally, save and Activate the domains.



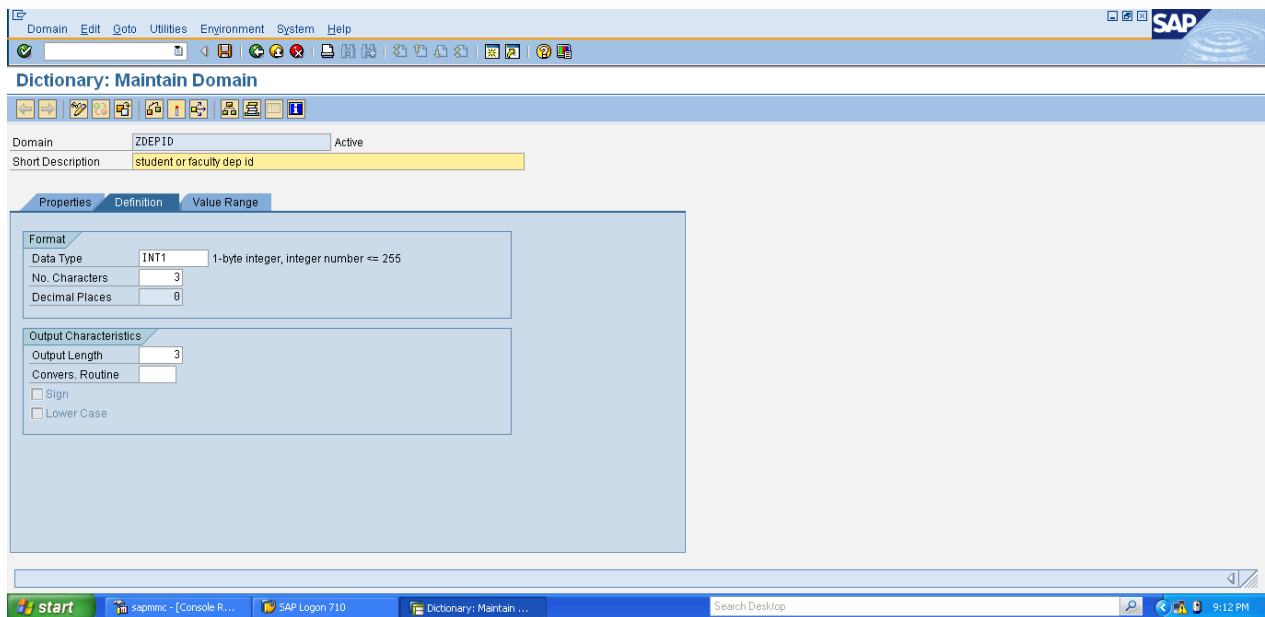
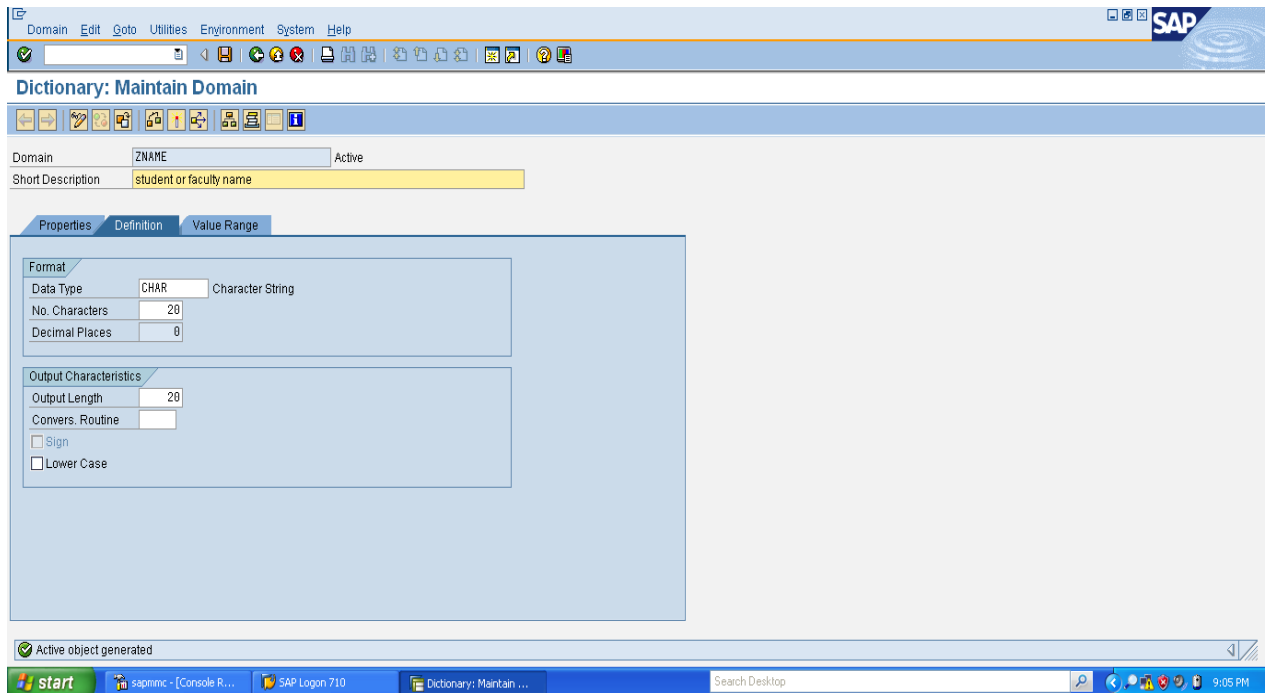


Figure4: create domain

Step 4 - Enter field names

Now go to the fields tab and add some fields such as **zstname**. Similarly create more fields for the database table.

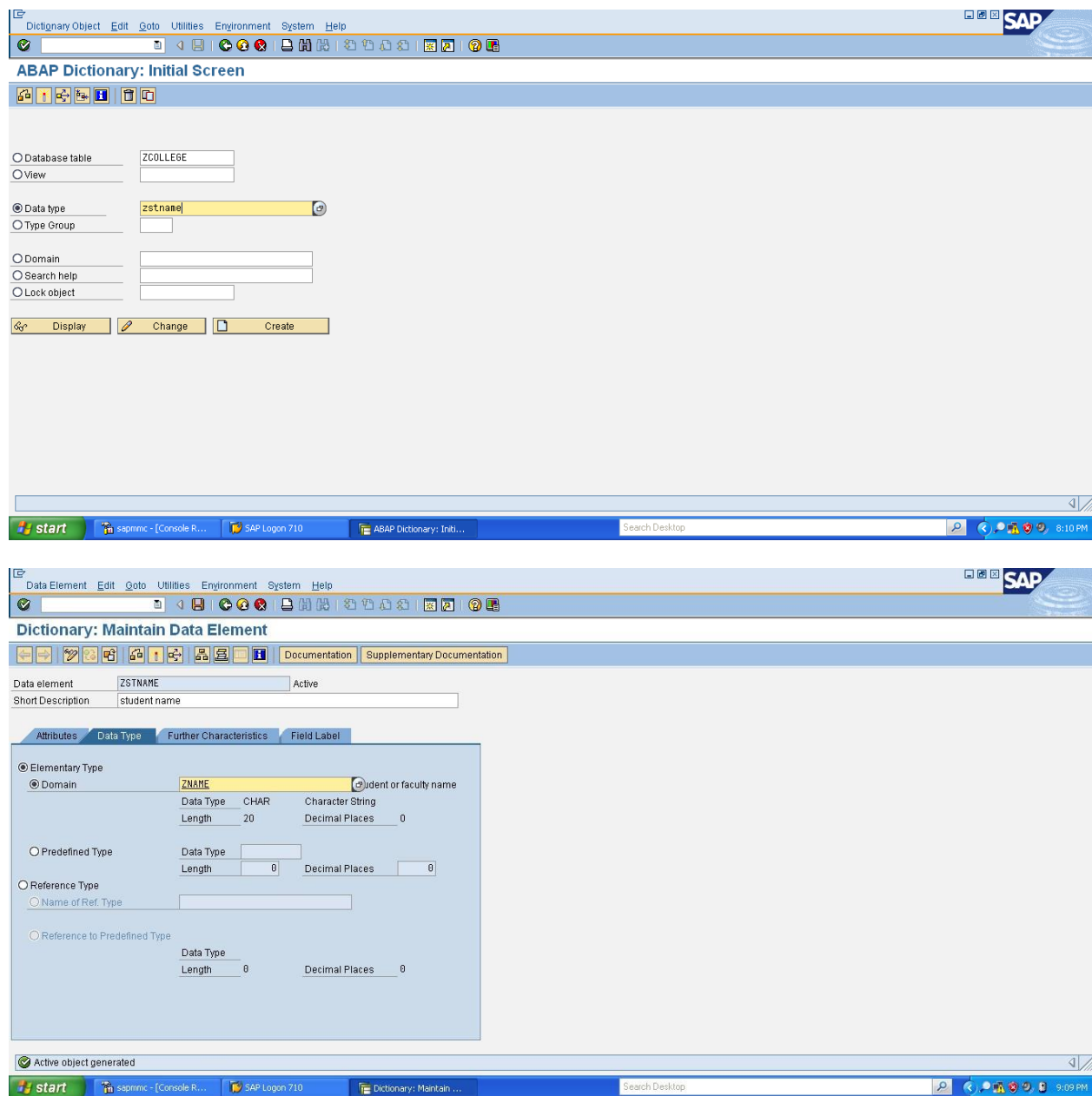


Figure5: enter field names

Step 5 - Enter technical settings

Before you can activate your new table you need to maintain the technical settings to define the type and size of data being stored. To do this first Click on the

Go to->Technical Settings option

on the next screen enter the data class as 'APPL0' and the size as '0'.

The screenshot shows the SAP Dictionary: Maintain Technical Settings for table ZCOLLEGE. The interface includes a menu bar (Settings, Edit, Goto, System, Help) and a toolbar. The table name is ZCOLLEGE, and it is a Transparent Table. The short text is college database. The last change was made by BCUSER on 26.10.2015. The status is Active. The logical storage parameters section shows the data class as APPL0 (Master data, transparent tables) and the size category as 0 (Data records expected: 0 to 7,400). The buffering section has three radio buttons: Buffering not allowed (selected), Buffering allowed but switched off, and Buffering switched on. The buffering type section has three checkboxes: Single records buff., Generic Area Buffered, and Fully Buffered. The No. of key fields is 0. The Log data changes and Write access only with JAVA checkboxes are unchecked.

Figure6: Enter technical settings

Step 6 - SAVE, Activate and your done

Right that's it, simply save and activate your table and its ready to use.

The screenshot shows the SAP Dictionary: Maintain Data Element for data element ZSTNAME. The interface includes a menu bar (Data Element, Edit, Goto, Utilities, Environment, System, Help) and a toolbar. The data element is ZSTNAME and it is Active. The short description is student name. The tabs are Attributes, Data Type, Further Characteristics, and Field Label. The Data Type tab is selected. The Elementary Type section has three radio buttons: Domain (selected), Predefined Type, and Reference Type. The Domain section shows the data type as ZNAME (Student or faculty name) with a character string data type, length of 20, and decimal places of 0. The Reference Type section has two radio buttons: Name of Ref. Type and Reference to Predefined Type. The Reference to Predefined Type section shows the data type as 0 and decimal places as 0. The Active object generated checkbox is checked.

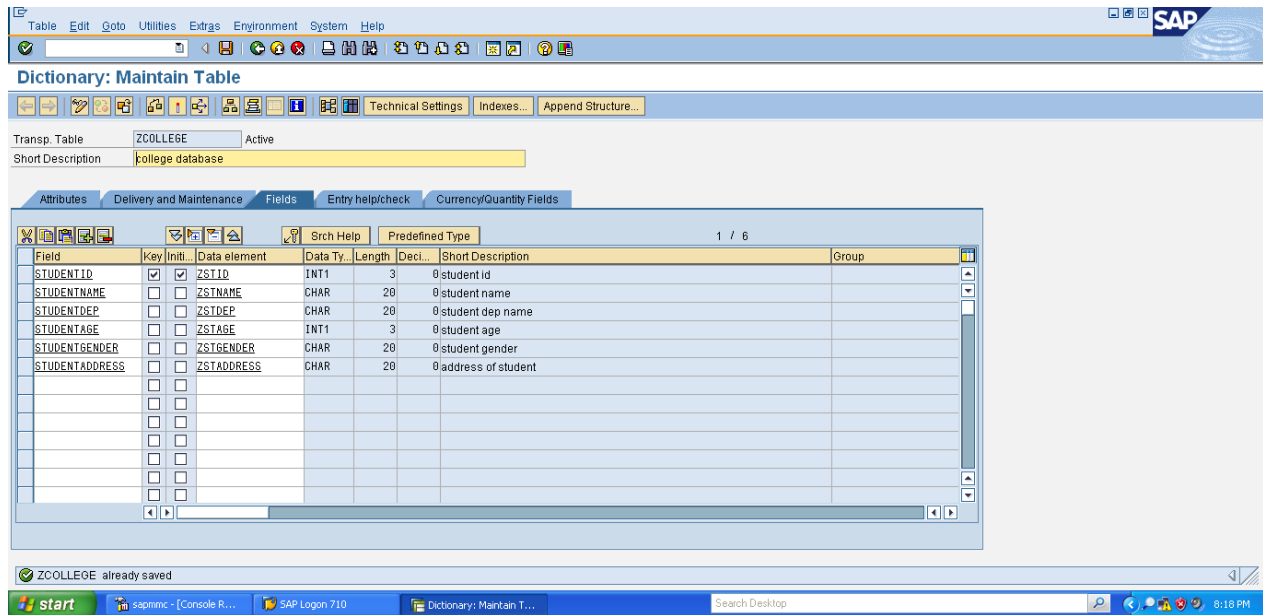
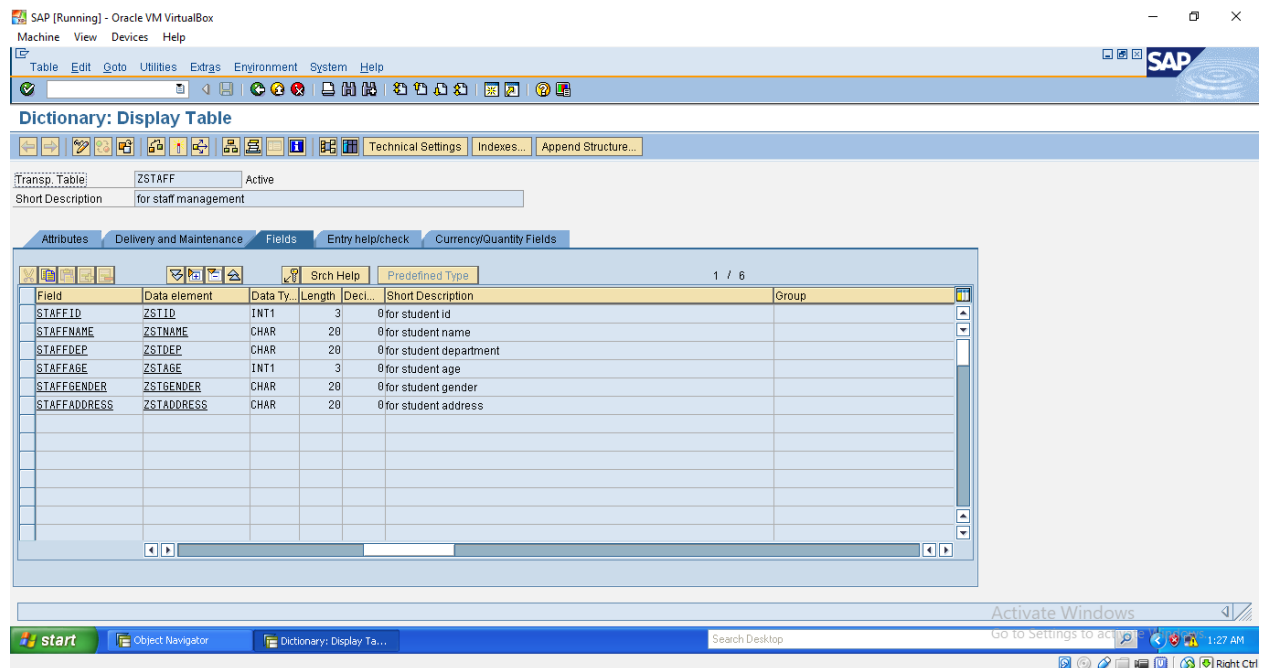
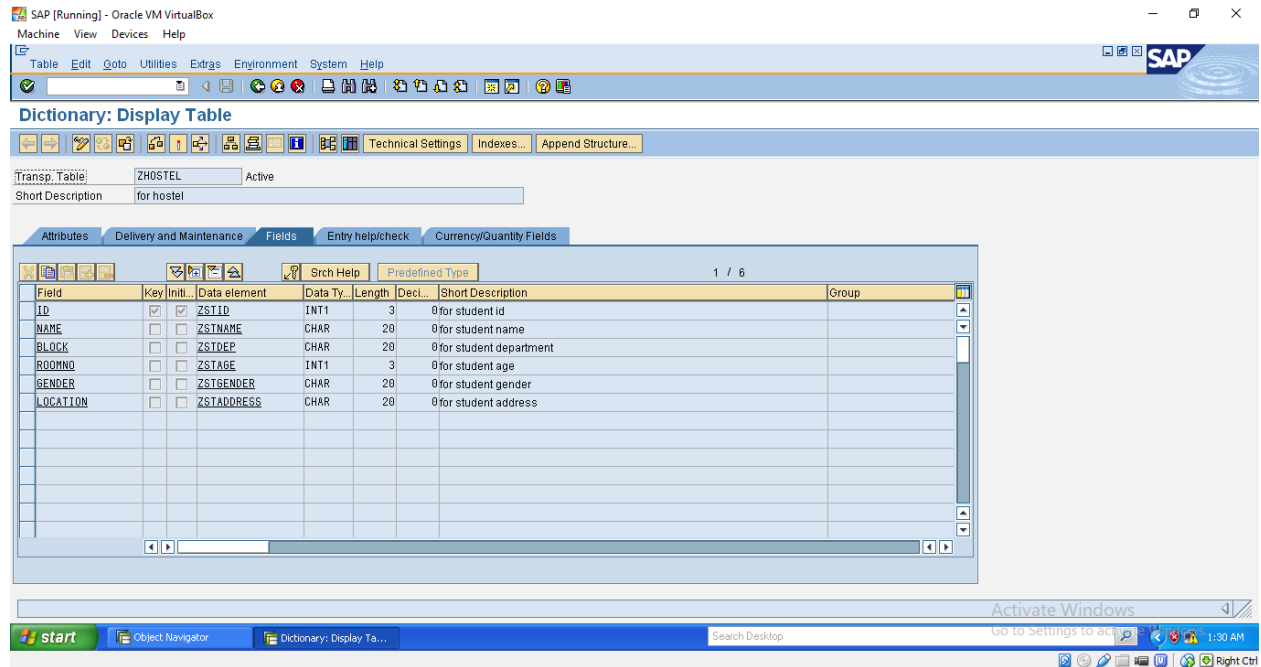


Figure7: SAVE, Activate and your done





1.2.2 Login

1.2.2.1 USER SIDE

USER LOGIN

HOME

SIGN UP/ REGISTER

1.2.2.2 ADMIN SIDE

ADMIN LOGIN

SIGNUP

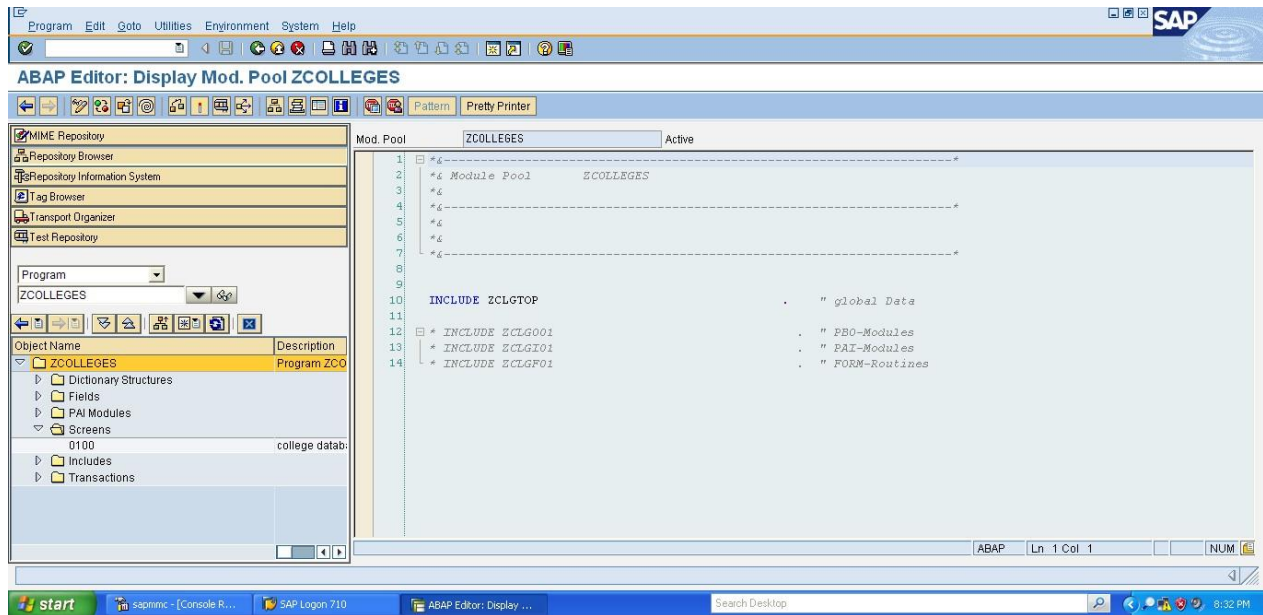
EDIT PROFILE

ACTIVITY LOG

1.2.3 STEPS FOR SCREEN DESIGNING

Step1-CreateNewdialogProgram

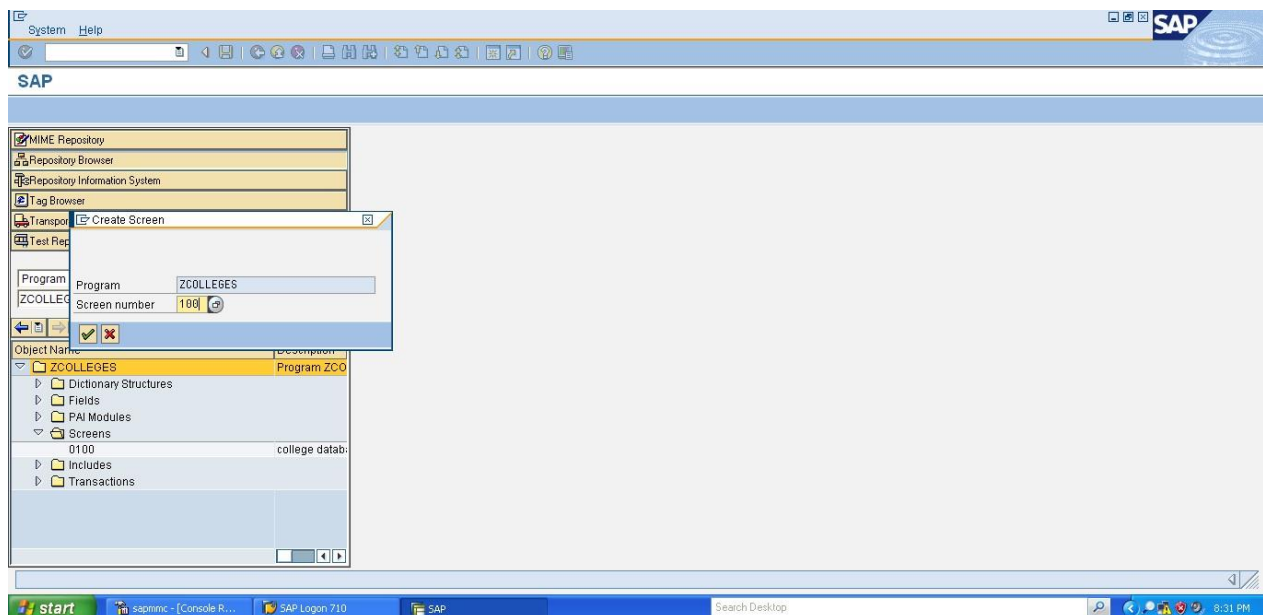
Within transaction SE80 select program from the dropdown and enter a Z name for your custom SAP program (i.e. ZCOLLEGES). Now press enter, select "With TOP INCL." and press the Yes button Enter a name for your top include (i.e. ZCLGTOP) and press the green tick Within the attributes screen simply enter a title and press the save button



Step 2 - Add a screen to your dialog program

You now need to add a screen to your program by right clicking on the program name and selecting the options Create->Screen

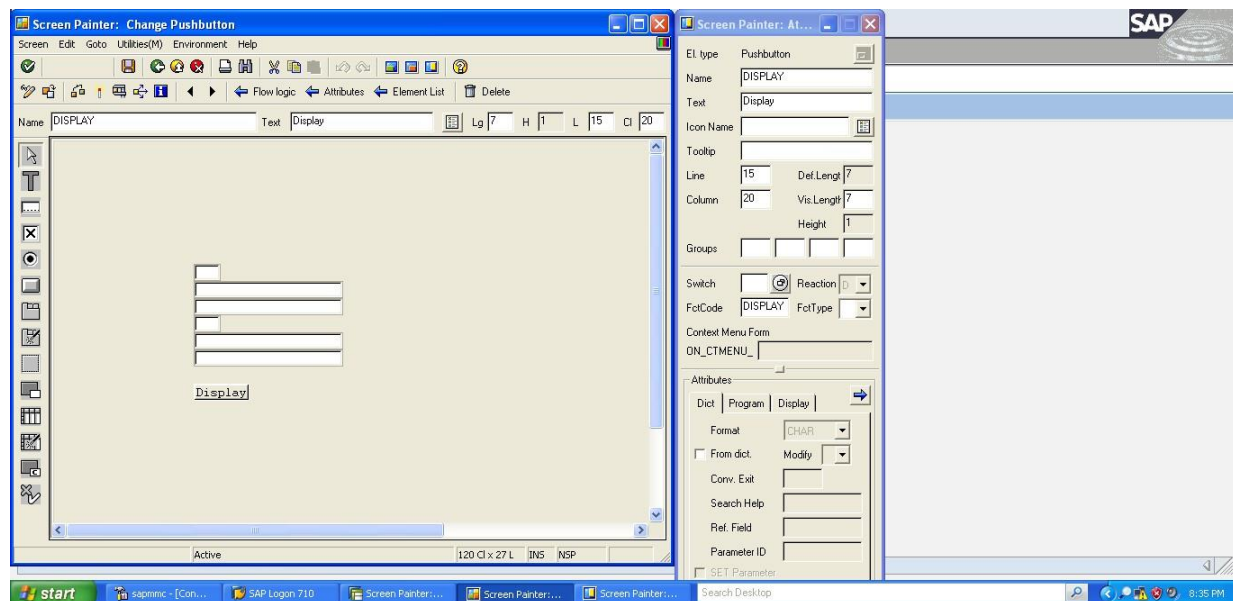
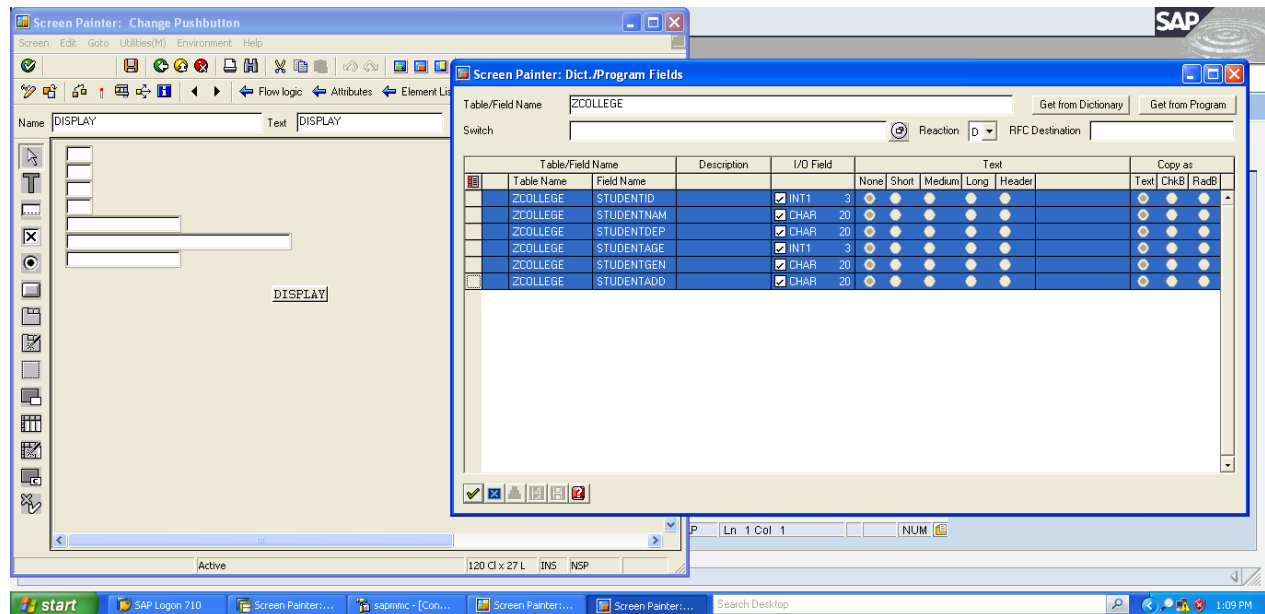
Enter a screen number such as '0100' and press the green tick



On the next screen enter a short title, set to normal screen type and press the save button on the top application toolbar!

Step 3 - Screen layout

Now click on the layout button within the application toolbar. Here we also need to create a PUSH BUTTON to display the contents of table.

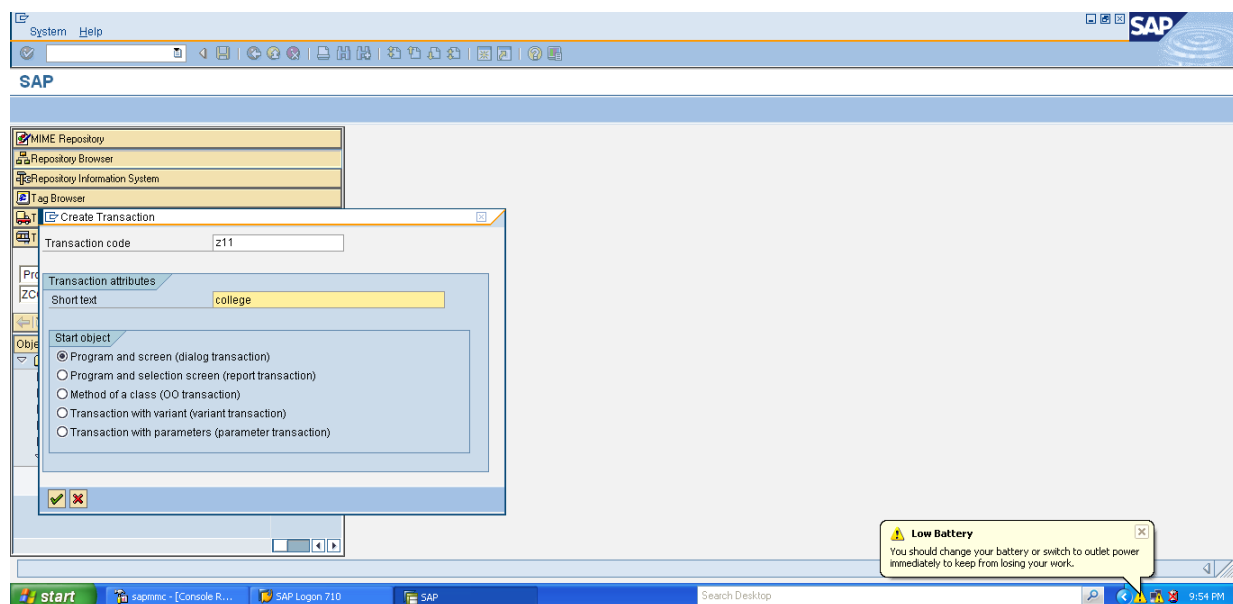


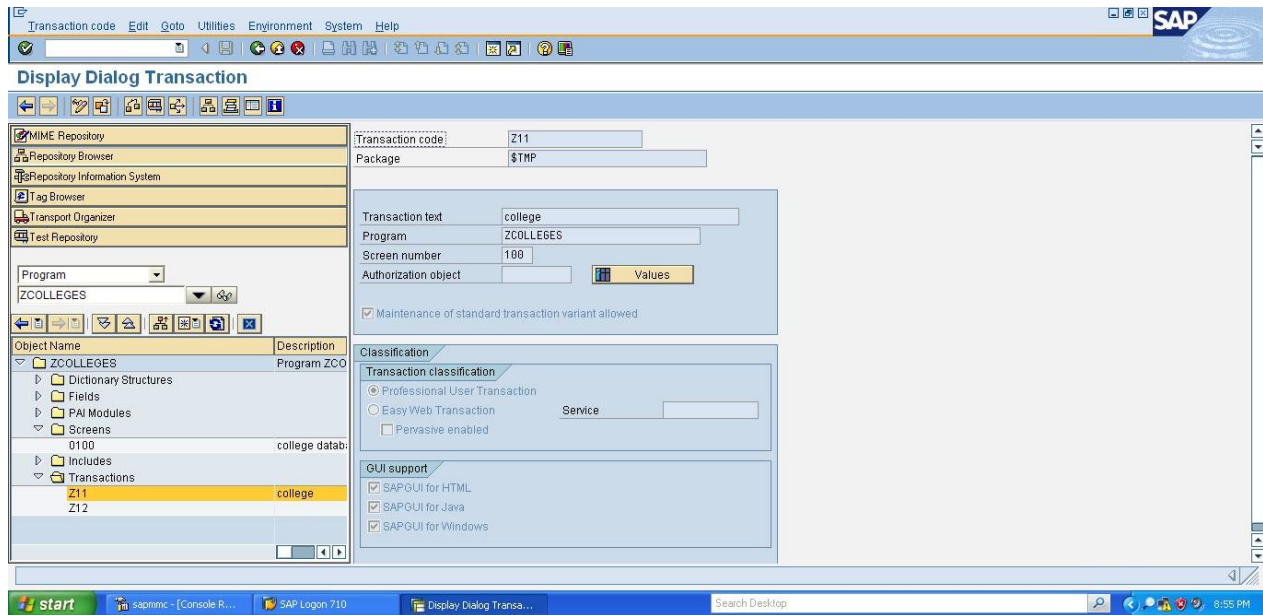
Step 4 - Create transaction

Next step is to create a transaction code for your program, to do this simply right click on the program name choose the option Create->Transaction

Enter a transaction code such as 'Z11'

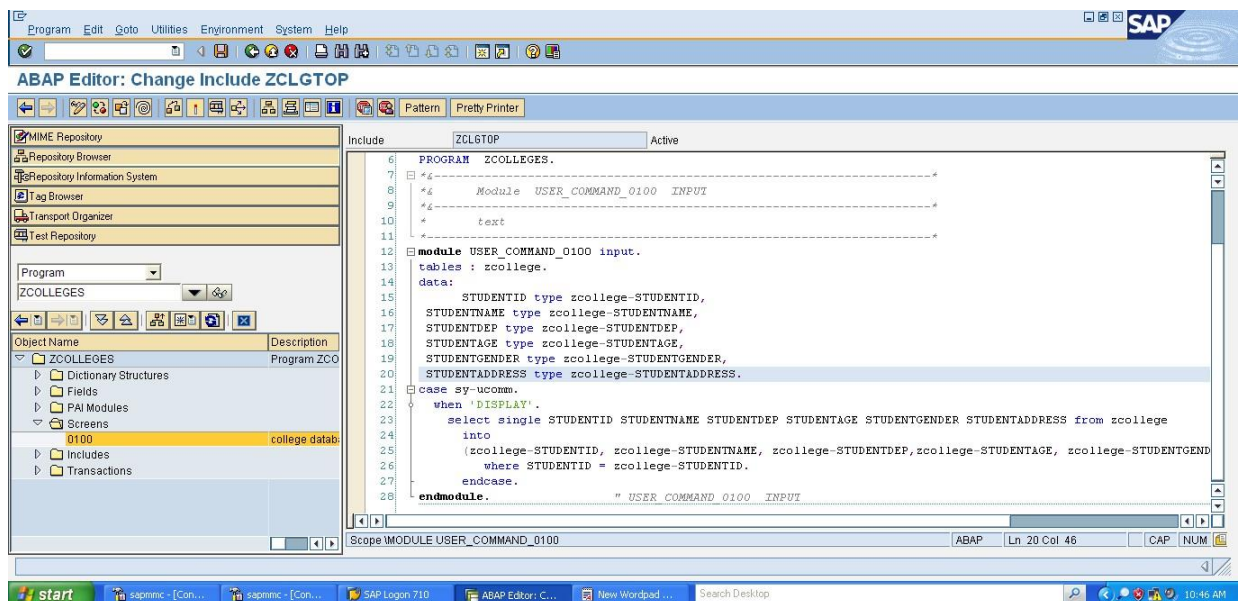
Enter transaction text, program / Screen you have just created (i.e. ZCOLLEGES / 0100) and tick at least the SAPGUI for Windows checkbox.





Step 5 - Test

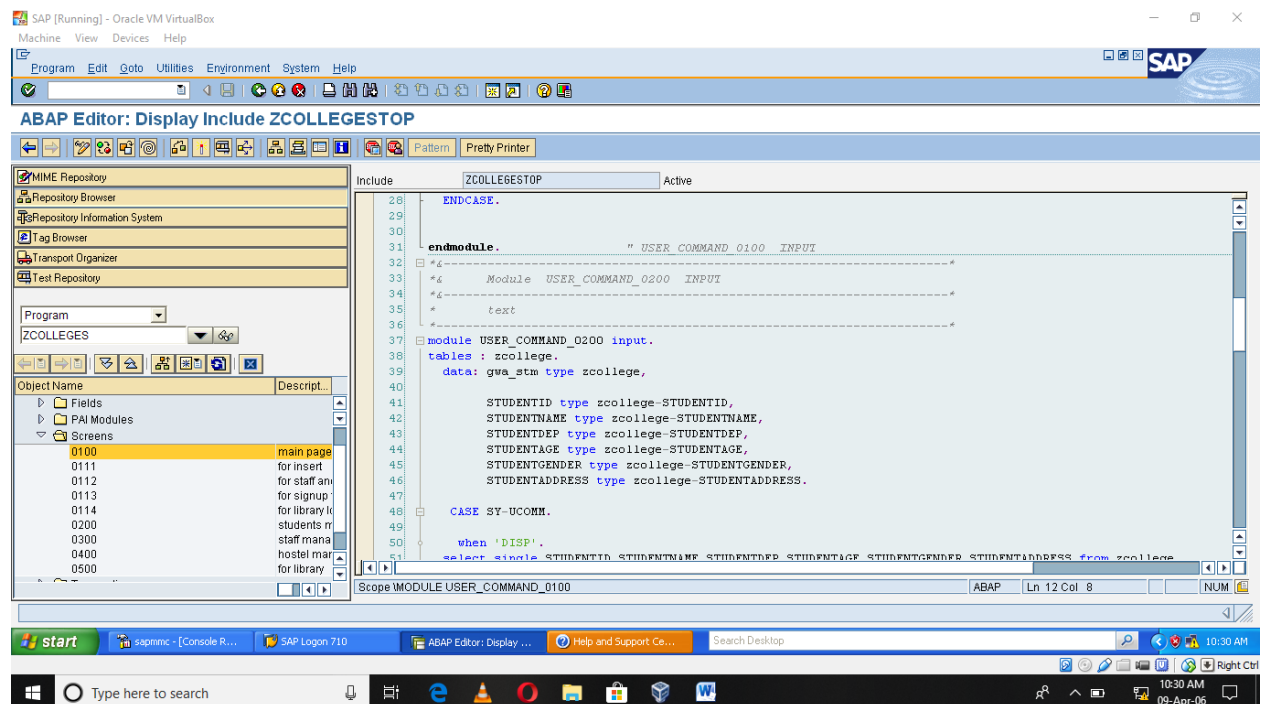
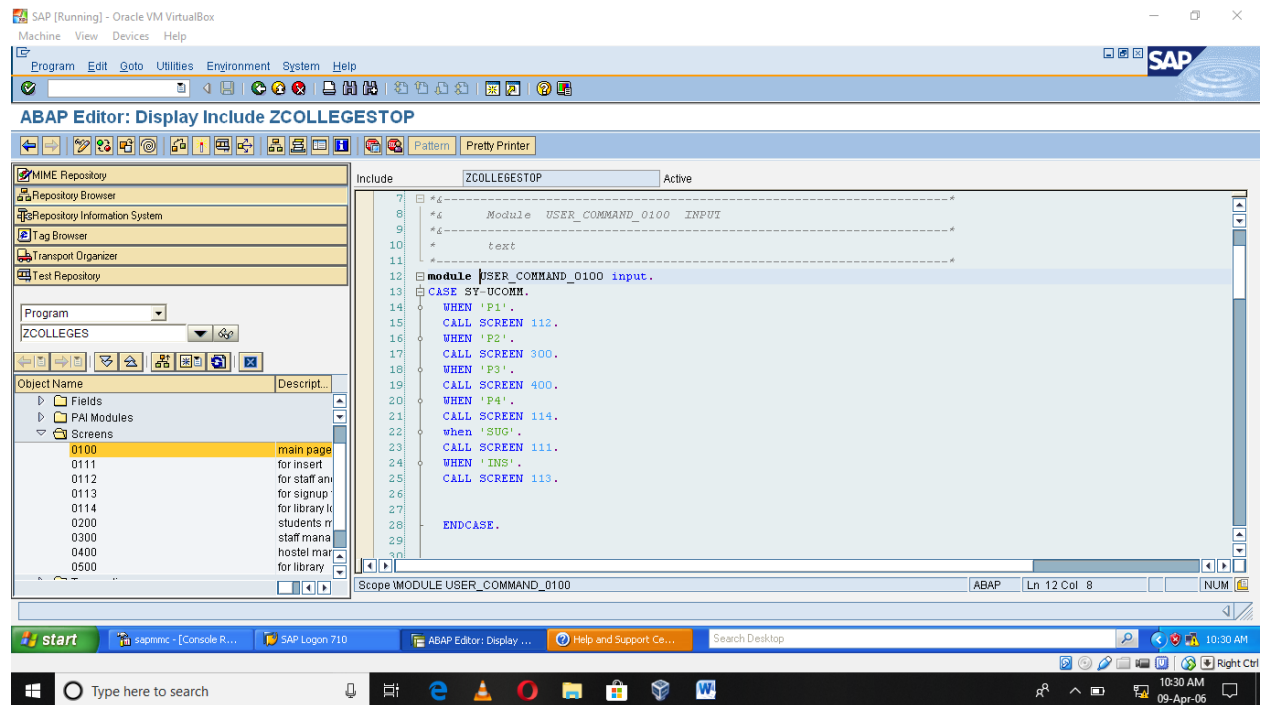
First Save and activate everything. You can now execute the program by using the transaction code you have just created. note the /o at the begining executes the transaction in a new session. Your program should then be executed and the text you entered displayed onscreen.



Coding :

V

In this project we create four screens , for each screen we need to add the codings



SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Include ZCOLLEGESTOP

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program: ZCOLLEGES

Object Name: 0100 main page
0111 for insert
0112 for staff an
0113 for sign-up
0114 for library l
0200 students ri
0300 staff mana
0400 hostel mar
0500 for library

```
46 STUDENTADDRESS type zcollege-STUDENTADDRESS.  
47  
48 CASE SY-UCOMM.  
49  
50 when 'DISP'.  
51 select single STUDENTID STUDENTNAME STUDENTDEP STUDENTAGE STUDENTGENDER STUDENTADDRESS from zcollege  
52 into  
53 (zcollege-STUDENTID, zcollege-STUDENTNAME, zcollege-STUDENTDEP, zcollege-STUDENTAGE, zcollege-STUDENTGENDER  
54 where STUDENTID = zcollege-STUDENTID.  
55 when 'B1'.  
56 CALL SCREEN 100.  
57 WHEN 'INS'.  
58 gwa_stm-STUDENTID = zcollege-STUDENTID.  
59 gwa_stm-STUDENTNAME = zcollege-STUDENTNAME.  
60 gwa_stm-STUDENTDEP = zcollege-STUDENTDEP.  
61 gwa_stm-STUDENTAGE = zcollege-STUDENTAGE.  
62 gwa_stm-STUDENTGENDER = zcollege-STUDENTGENDER.  
63 gwa_stm-STUDENTADDRESS = zcollege-STUDENTADDRESS.  
64 INSERT zcollege FROM gwa_stm.  
65  
66 ENDCASE.  
67  
68 endmodule
```

Scope: MODULE USER_COMMAND_0100

ABAP Ln 12 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop 10:30 AM 09-Apr-06

Type here to search

SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Mod. Pool ZCOLLEGES

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program: ZCOLLEGES

Object Name: ZCOLLEGES Program Z
ZCOLLEGES
Dictionary Structures
Fields
PAI Modules
Screens
0100 main page
0111 for insert
0112 for staff an
0113 for sign-up
0114 for library l
0200 students ri
0300 staff mana

```
54 *-----  
55 * text  
56 *-----  
57 module USER_COMMAND_0111 input.  
58 tables : zsug.  
59  
60 data: gwa_sug type zsug.  
61  
62 gwa_sug-id = ZSUG-ID.  
63 gwa_sug-suggestion = ZSUG-SUGGESTION.  
64  
65 INSERT zsug FROM gwa_sug.  
66 CASE SY-UCOMM.  
67 when 'B01'.  
68 CALL SCREEN 100.  
69 ENDCASE.  
70 endmodule. " USER COMMAND 0111 INPUT  
71 *-----  
72 * Module USER_COMMAND_0112 INPUT  
73 *-----  
74 * text  
75 *-----  
76 module USER_COMMAND_0112 input.  
77 tables : zsug.  
78
```

Scope: MODULE USER_COMMAND_0111

ABAP Ln 57 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop 10:31 AM 09-Apr-06

Type here to search

SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Mod. Pool ZCOLLEGES

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program: ZCOLLEGES

Object Name	Description
ZCOLLEGES	Program Z
Dictionary Structures	
Fields	
PAI Modules	
Screens	
0100	main page
0111	for insert
0112	for staff an
0113	for signup
0114	for library
0200	students m
0300	staff mana

```
73 *-----*  
74 *      text  
75 *-----*  
76 module USER_COMMAND_0112 input.  
77  
78 tables : zstlogin.  
79 data: gwa_log type zstlogin,  
80       tableid type ZSTLOGIN-USERID,  
81       getpass type ZSTLOGIN-PASSWORD.  
82  
83  
84       getpass = ZSTLOGIN-PASSWORD.  
85       select * from zstlogin into gwa_log.  
86       if gwa_log-password = getpass.  
87         call SCREEN 200.  
88       -ENDIF.  
89  
90 -endselect.  
91 CASE SY-UCOMM.  
92   when 'B02'.  
93     CALL SCREEN 100.  
94   -ENDCASE.  
95 -endmodule.      " USER COMMAND 0112 INPUT  
96  
97 *-----*  
98 *      Module USER_COMMAND_0113 INPUT  
99 *-----*  
100  
101 module USER_COMMAND_0113 input.  
102  
103 data: gwa_stl type zstlogin.  
104 CASE SY-UCOMM.  
105   WHEN 'INS'.  
106     gwa_stl-adminid = ZSTLOGIN-ADMINID.  
107     gwa_stl-userid = ZSTLOGIN-USERID.  
108     gwa_stl-password = ZSTLOGIN-PASSWORD.  
109     INSERT zstlogin FROM gwa_stl.  
110     when 'B03'.  
111       CALL SCREEN 100.  
112   -ENDCASE.  
113 -endmodule.      " USER COMMAND 0113 INPUT  
114  
115 *-----*  
116 *      Module USER_COMMAND_0114 INPUT  
117 *-----*  
118  
119 module USER_COMMAND_0114 input
```

Scope: MODULE USER_COMMAND_0112

ABAP Ln 76 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop

Type here to search

10:31 AM 09-Apr-06

SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Mod. Pool ZCOLLEGES

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program: ZCOLLEGES

Object Name	Description
ZCOLLEGES	Program Z
Dictionary Structures	
Fields	
PAI Modules	
Screens	
0100	main page
0111	for insert
0112	for staff an
0113	for signup
0114	for library
0200	students m
0300	staff mana

```
95 -endmodule.      " USER COMMAND 0112 INPUT  
96  
97 *-----*  
98 *      Module USER_COMMAND_0113 INPUT  
99 *-----*  
100  
101 module USER_COMMAND_0113 input.  
102  
103 data: gwa_stl type zstlogin.  
104 CASE SY-UCOMM.  
105   WHEN 'INS'.  
106     gwa_stl-adminid = ZSTLOGIN-ADMINID.  
107     gwa_stl-userid = ZSTLOGIN-USERID.  
108     gwa_stl-password = ZSTLOGIN-PASSWORD.  
109     INSERT zstlogin FROM gwa_stl.  
110     when 'B03'.  
111       CALL SCREEN 100.  
112   -ENDCASE.  
113 -endmodule.      " USER COMMAND 0113 INPUT  
114  
115 *-----*  
116 *      Module USER_COMMAND_0114 INPUT  
117 *-----*  
118  
119 module USER_COMMAND_0114 input
```

Scope: MODULE USER_COMMAND_0113

ABAP Ln 101 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop

Type here to search

10:32 AM 09-Apr-06

SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Include ZCOLLEGESTOP

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program
ZCOLLEGES

Object Name	Description
PAI Modules	
Screens	
0100	main page
0111	for insert
0112	for staff and student manage
0113	for sign up table
0114	for library login
0200	students management
0300	staff management
0400	hostel management
0500	for library
Transactions	

```
75 module USER_COMMAND_0300 input.  
76  
77  
78 tables : zstaff.  
79  
80 data:  
81 STAFFID type zstaff-STAFFID,  
82 STAFFNAME type zstaff-STAFFNAME,  
83 STAFFDEP type zstaff-STAFFDEP,  
84 STAFFAGE type zstaff-STAFFAGE,  
85 STAFFGENDER type zstaff-STAFFGENDER,  
86 STAFFADDRESS type zstaff-STAFFADDRESS.  
87  
88 when 'DISP'.  
89 select single STAFFID STAFFNAME STAFFDEP STAFFAGE STAFFGENDER STAFFADDRESS from zstaff  
90 into  
91 (zstaff-STAFFID, zstaff-STAFFNAME, zstaff-STAFFDEP, zstaff-STAFFAGE, zstaff-STAFFGENDER, zst  
92 where STAFFID = zstaff-STAFFID.  
93 when 'B2'.  
94 CALL SCREEN 100.  
95 endcase.  
96  
97 endmodule.  
98 " USER COMMAND 0300 INPUT  
99
```

Scope MODULE USER_COMMAND_0300 ABAP Ln 75 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop 10:33 AM

Type here to search 10:33 AM 09-Apr-06

SAP [Running] - Oracle VM VirtualBox

Machine View Devices Help

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Mod. Pool ZCOLLEGES

MIME Repository
Repository Browser
Repository Information System
Tag Browser
Transport Organizer
Test Repository

Program
ZCOLLEGES

Object Name	Description
Screens	
0100	main page
0111	for insert
0112	for staff and student manage
0113	for sign up table
0114	for library login
0200	students management
0300	staff management
0400	hostel management
0500	for library
Transactions	
Includes	

```
26 BID type ZLIBRARY-BID,  
27 BNAME type ZLIBRARY-BNAME,  
28 ANAME type ZLIBRARY-ANAME,  
29 BOOKSAVAIL type ZLIBRARY-BOOKSAVAIL,  
30 BOOKSTAKEN type ZLIBRARY-BOOKSTAKEN.  
31 case sy-ucomm.  
32 when 'LFC'.  
33  
34 select single BID BNAME ANAME BOOKSAVAIL BOOKSTAKEN from zlibrary  
35 into  
36 (ZLIBRARY-BID, ZLIBRARY-BNAME, ZLIBRARY-ANAME, ZLIBRARY-BOOKSAVAIL, ZLIBRARY-BOOKSTAKEN)  
37 where BID = ZLIBRARY-BID.  
38  
39 when 'INS'.  
40 gwa_l1b-BID = ZLIBRARY-BID.  
41 gwa_l1b-BNAME = ZLIBRARY-BNAME.  
42 gwa_l1b-ANAME = ZLIBRARY-ANAME.  
43 gwa_l1b-BOOKSAVAIL = ZLIBRARY-BOOKSAVAIL.  
44 gwa_l1b-BOOKSTAKEN = ZLIBRARY-BOOKSTAKEN.  
45 INSERT zlibrary FROM gwa_l1b.  
46  
47 when 'B4'.  
48 CALL SCREEN 100.  
49 endcase.  
50
```

Scope MODULE USER_COMMAND_0500 ABAP Ln 21 Col 8 NUM

start sapmm - [Console R... SAP Logon 710 ABAP Editor: Display ... Help and Support Ce... Search Desktop 10:34 AM

Type here to search 10:34 AM 09-Apr-06

1.2.2. DATA RETRIEVAL

Dictionary: Display Table

Transp. Table: ZCOLLEGE Active
Short Description: college database

Attributes | Delivery and Maintenance | Fields | Entry help/check | Currency/Quantity Fields

Field | Key | Init. | Data element | Data Ty. | Length | Dec. | Short Description | Group

STUDENTID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZSIID	INT1	3		0 student id	
STUDENTNAME	<input type="checkbox"/>	<input type="checkbox"/>	ZSNAME	CHAR	20		0 student name	
STUDENTDEP	<input type="checkbox"/>	<input type="checkbox"/>	ZSDPE	CHAR	20		0 student dep name	
STUDENTAGE	<input type="checkbox"/>	<input type="checkbox"/>	ZSTAGE	INT1	3		0 student age	
STUDENTGENDER	<input type="checkbox"/>	<input type="checkbox"/>	ZSTGENDER	CHAR	20		0 student gender	
STUDENTADDRESS	<input type="checkbox"/>	<input type="checkbox"/>	ZSTADDRESS	CHAR	20		0 address of student	

start | sapmm - [Con... | sapmm - [Con... | SAP Logon 710 | Dictionary: Dis... | New Wordpad ... | Search Desktop | 10:39 AM

ABAP Editor: Display Include ZCLGTOP

Program: ZCOLLEGES Active

Object Name: ZCOLLEGES Description: Program ZCO

Object Name: 0100 Description: college datab

Object Name: Z11 Description: college

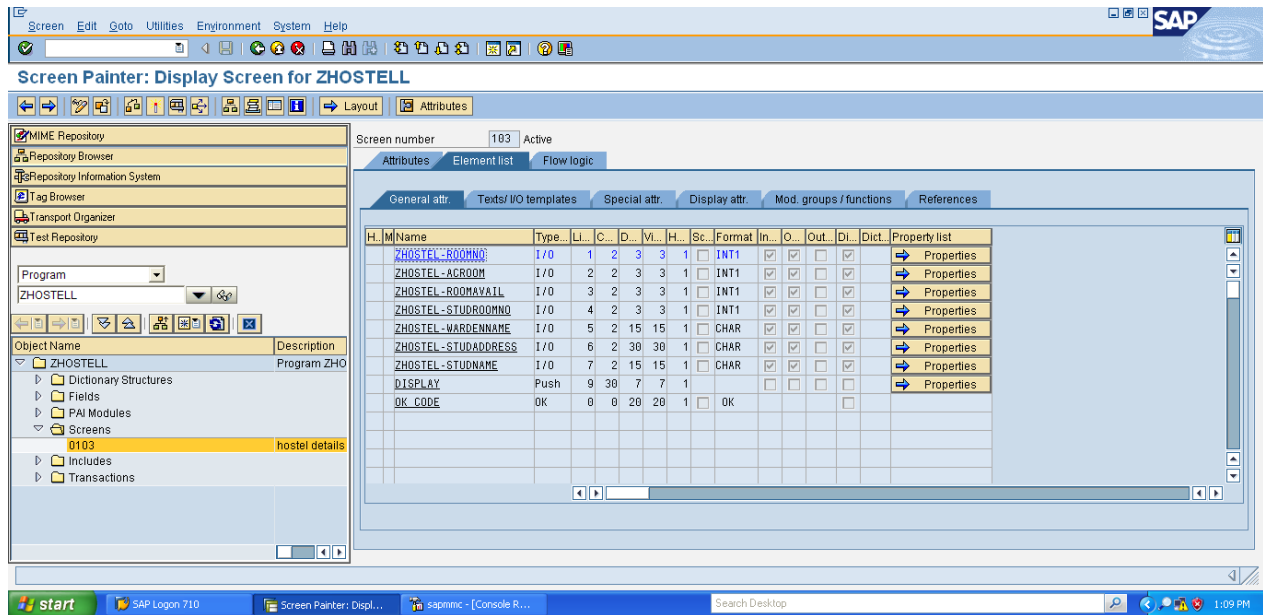
Object Name: Z12

```

12 module USER_COMMAND_0100 input.
13   tables : zcollege.
14   data:
15     STUDENTID type zcollege-STUDENTID,
16     STUDENTNAME type zcollege-STUDENTNAME,
17     STUDENTDEP type zcollege-STUDENTDEP,
18     STUDENTAGE type zcollege-STUDENTAGE,
19     STUDENTGENDER type zcollege-STUDENTGENDER,
20     STUDENTADDRESS type zcollege-STUDENTADDRESS.
21   case sy-ucomm.
22     when 'DISPLAY'.
23       select single STUDENTID STUDENTNAME STUDENTDEP STUDENTAGE STUDENTGENDER STUDENTADDRESS from zcollege
24         into
25           (zcollege-STUDENTID, zcollege-STUDENTNAME, zcollege-STUDENTDEP, zcollege-STUDENTAGE, zcollege-STUDENTGENDER
26             where STUDENTID = zcollege-STUDENTID.
27       endcase.
28   endmodule. " USER COMMAND 0100 INPUT
  
```

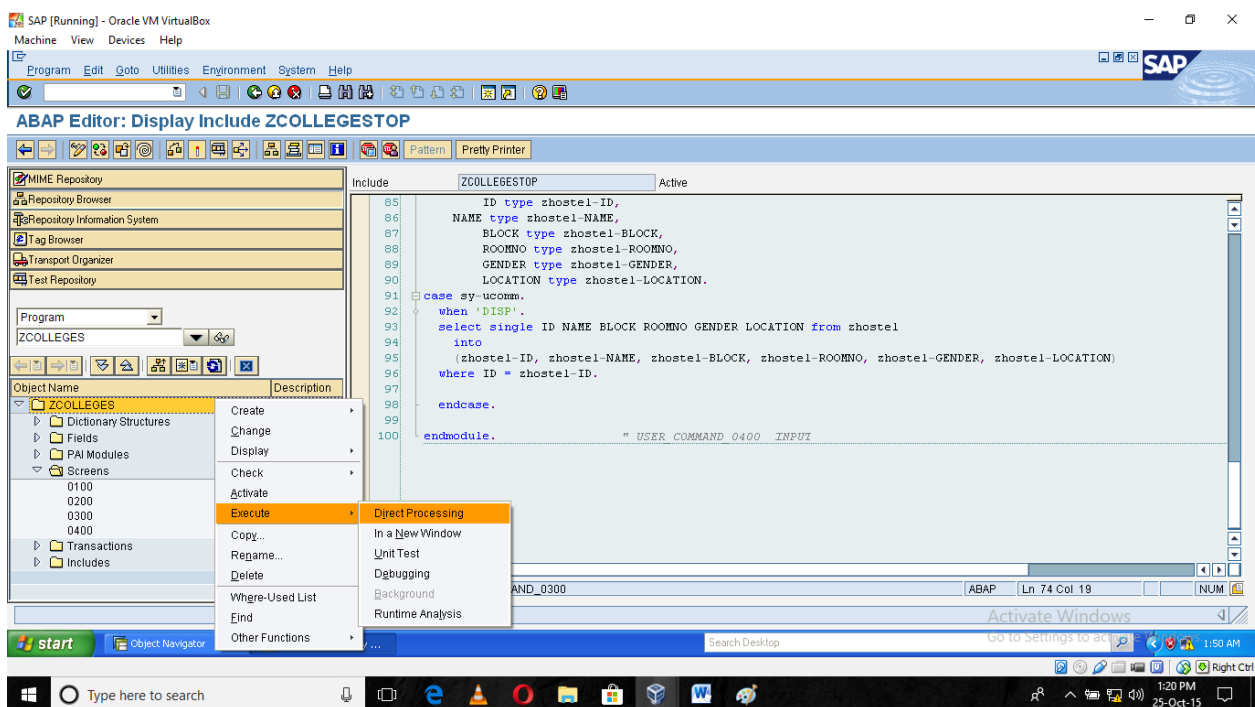
Scope: MODULE USER_COMMAND_0100 ABAP Ln 12 Col 8 NUM

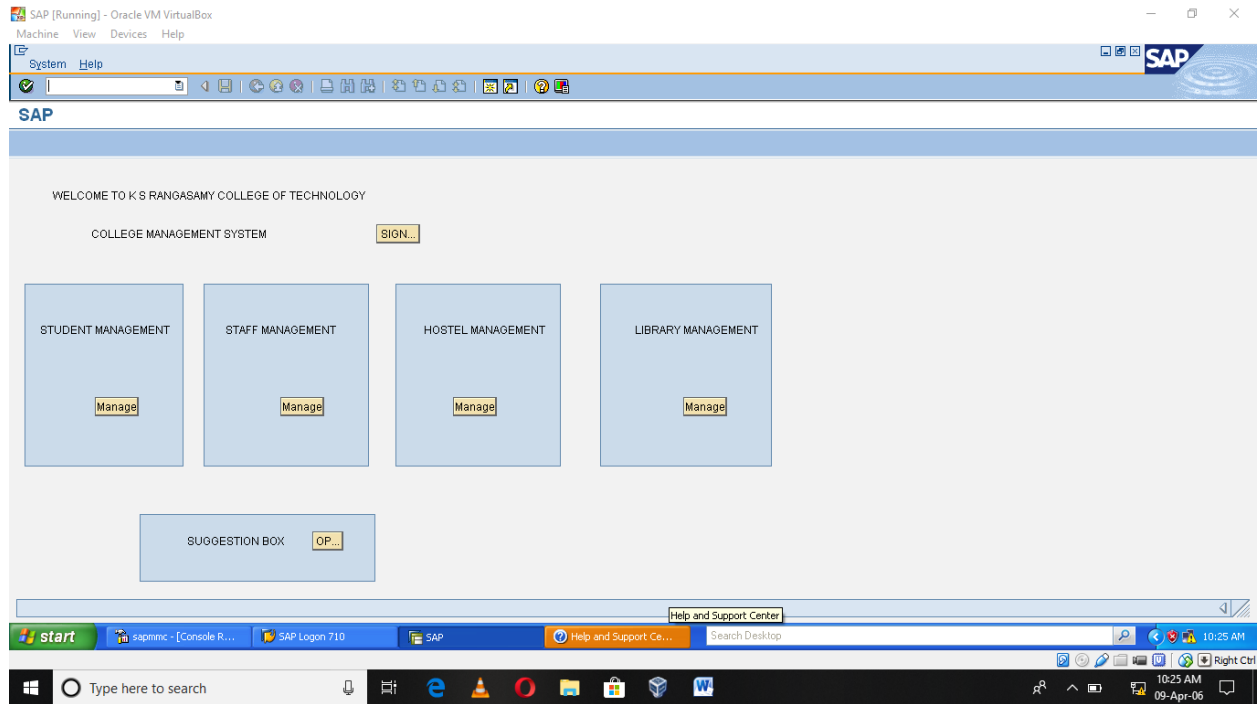
start | sapmm - [Console R... | SAP Logon 710 | ABAP Editor: Display ... | Search Desktop | 9:55 PM



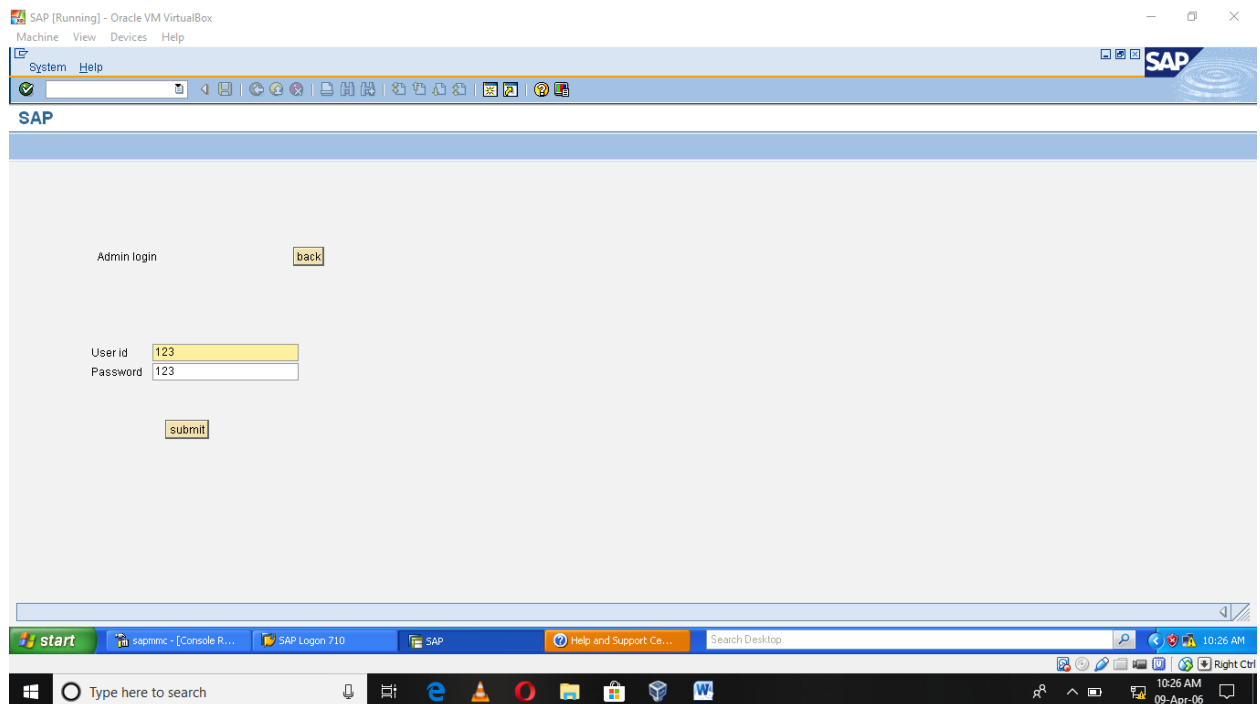
Output :

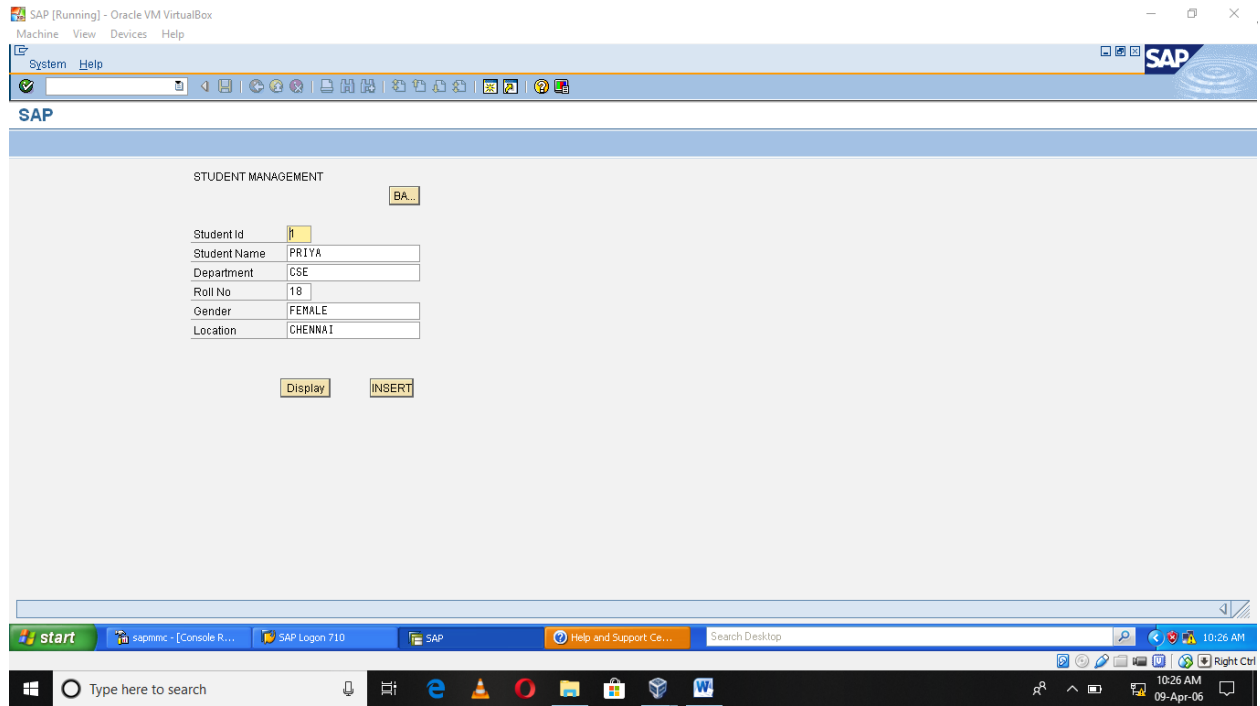
we can also execute the program by clicking execute and then direct processing





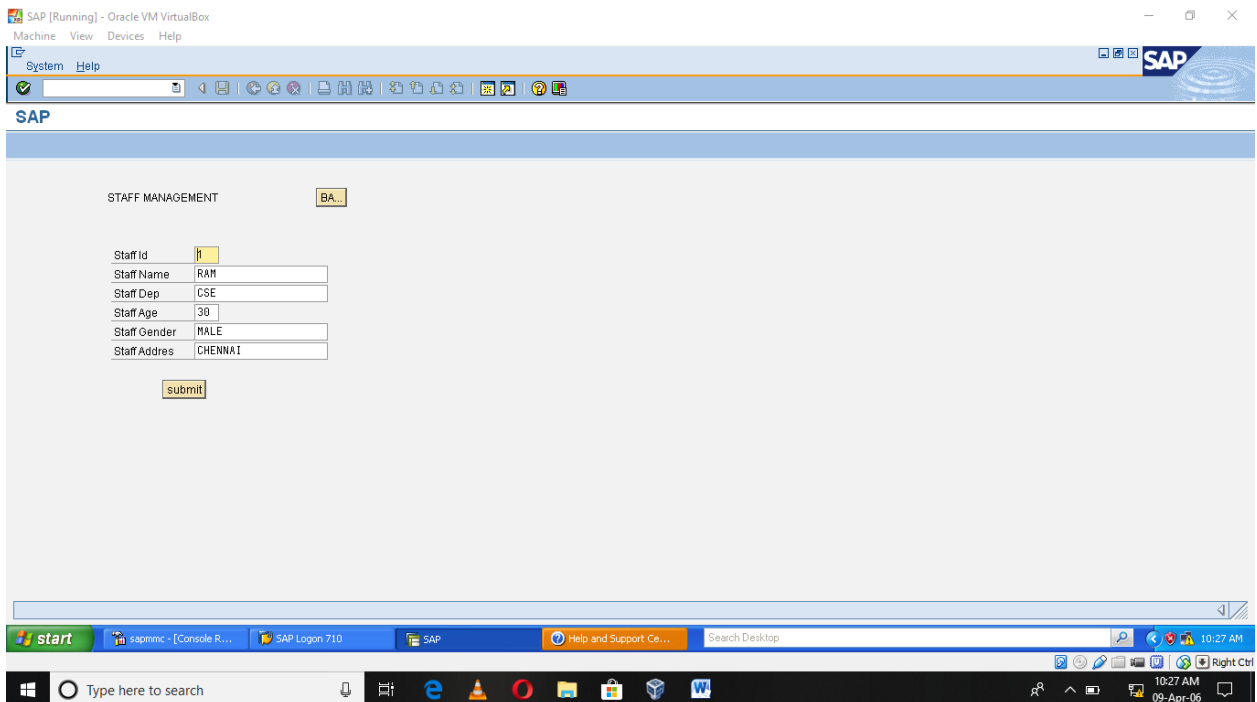
Screen 2 :



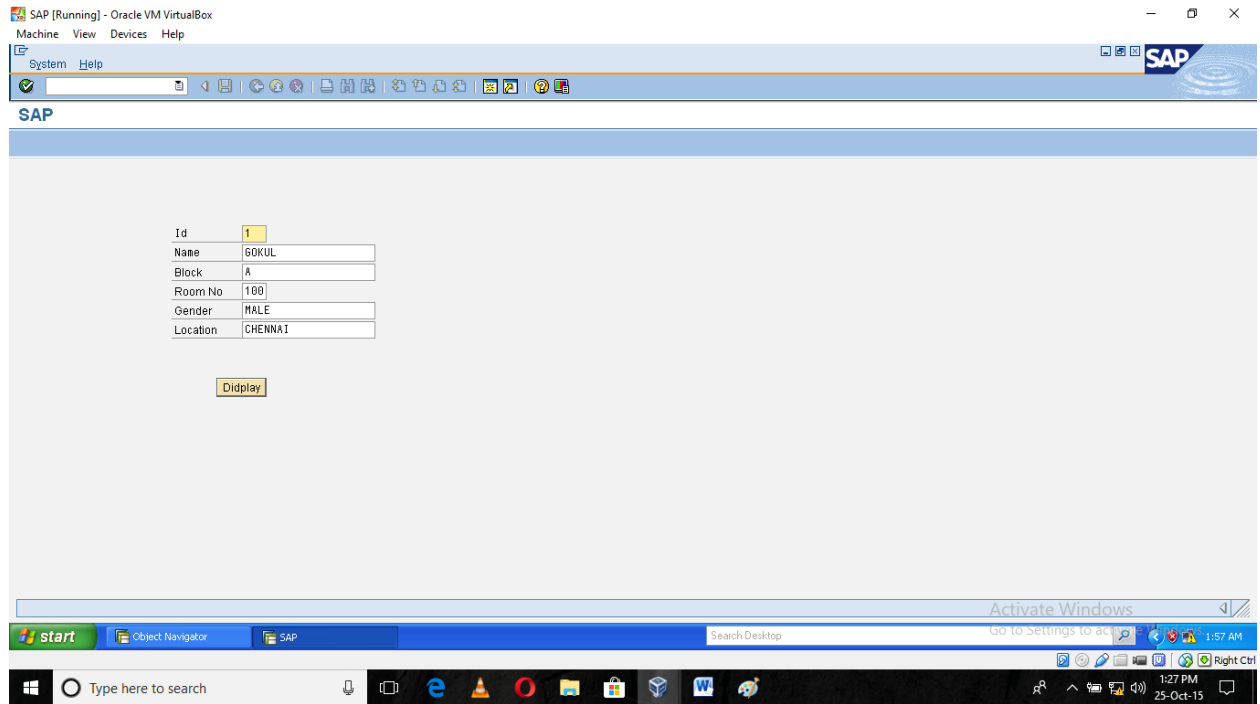


In the execution , there is unable to go to previous screen that's why we can use the trasanction code to execute

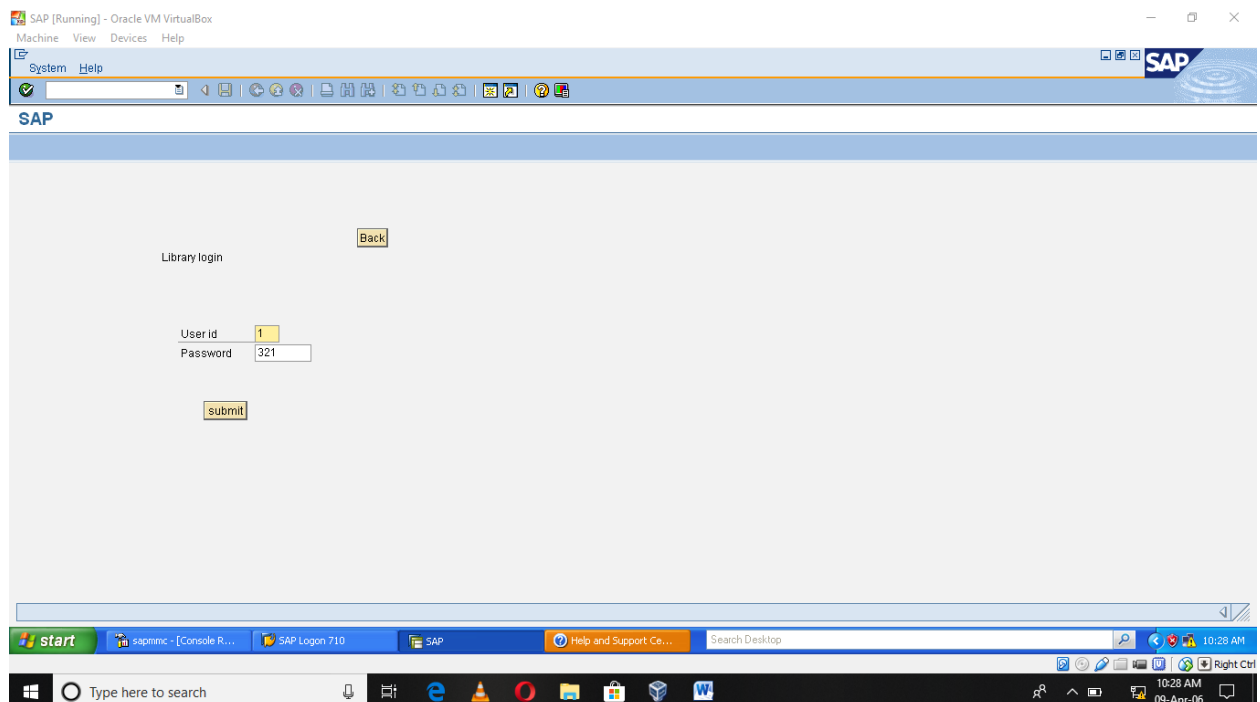
Screen 3 :

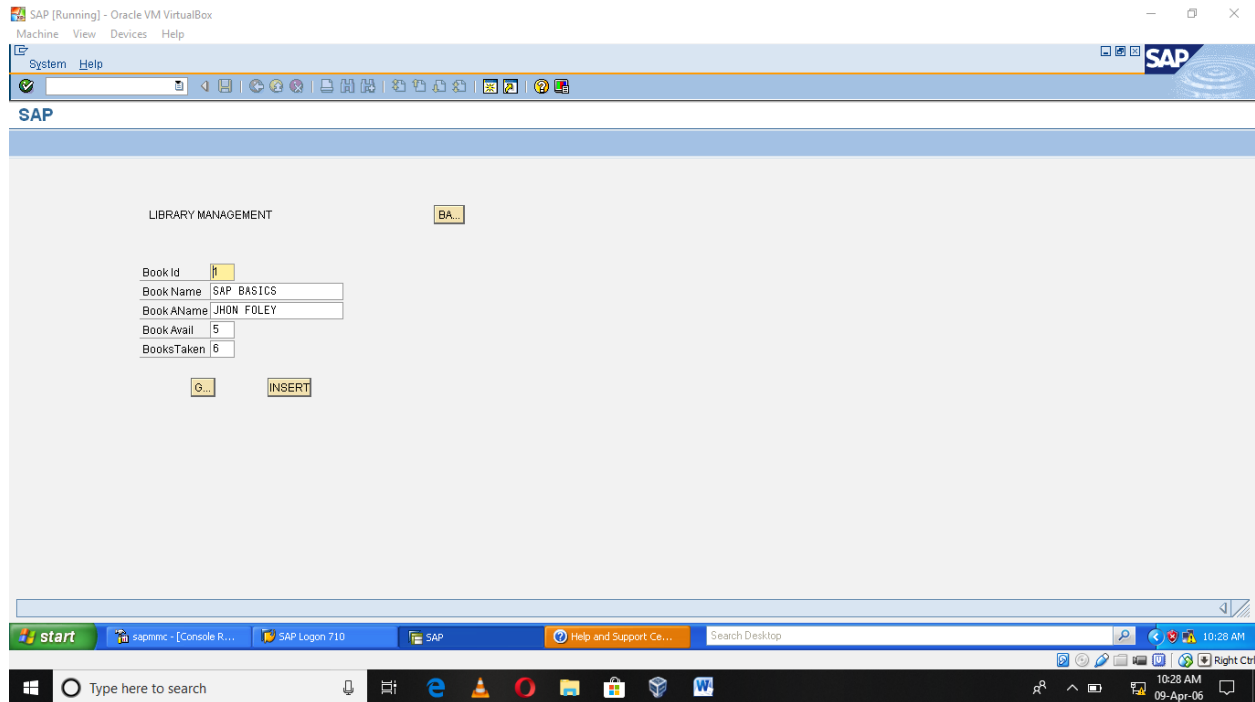


Screen 4 :



Screen 5 :





TRANSACTION CODES USED

- Se80-object navigator
- /nse80-home page of object navigator.
- Se11-To create table,domains,data types
- /nse11-To home page of create table,domains,data types
- Se16-To create entries for a table
- Z11-program transaction code

DOMAINS CREATED

- Zname(for name,address,gender,department)
- Zdepid(for age, id,)

DATA FIELDS CREATED

- Zstid(for student id ,staff id , hostel id , book id , booksavail ,bookstaken,adminid)
- Zstname(for student name , staff name , bname , aname)
- Zstaddress(for student address ,staff address , location)
- Zstgender(for student gender)
- Zstdep(for student department)
- Zstage(for student age)

DATABASE TABLE:

- Zcollege
- zstaff
- zhotel
- zlibrary
- zstlogin
- zsug
- zliblogin

SCREEN PROGRAM NAME: zcolleges

TOP INCLUDE NAME: zclgs

SCREEN NUMBER: 100 ,200,300,400,500,111,112

0111 – Suggestion Box (insert)

0112 –for staff management login

0114 – for library management login

PUSH BUTTON NAME: display.

FET CODE: display , disp , lfc,usubmit,b01,b02,ins

CONCLUSION

This case study incorporate all activities required to access college database It provides all necessary information to the management as well as the student with the use of this system. The user can simply sit in front of the system to monitor each and every query related to college. Database can service the student faculty requests best in time.

REFERENCES:

1. https://help.sap.com/saphelp_46c/helpdata/en/32/419337333fb436e1000000_9b38f8cf/frameset.htm
2. https://help.sap.com/erp_hcm_ias2_2014_03/helpdata/en/b8/047a31e5554d9aabda408ebcb7a41b/frameset.htm

