12-1-1985

Data base management system for the placement center of the Atlanta University

Mohan G. Singh

Atlanta University

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DATA BASE MANAGEMENT SYSTEM FOR THE
PLACEMENT CENTER OF THE ATLANTA UNIVERSITY

A THESIS
SUBMITTED TO THE FACULTY OF THE ATLANTA UNIVERSITY
IN PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR
THE DEGREE OF MASTER OF SCIENCE

BY

MOHAN G. SINGH

DEPARTMENT OF COMPUTER SCIENCE
ATLANTA, GEORGIA
DECEMBER, 1985
ABSTRACT

COMPUTER SCIENCE

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DATABASE MANAGEMENT SYSTEM FOR THE PLACEMENT CENTER OF THE ATLANTA UNIVERSITY

Advisor : Dr. Nazir A. Warsi
Thesis date : December, 1985

The Placement Center of the Atlanta University organizes interviews of the students with the companies around the country. A database management system is being developed for signing up and preparation of interview schedules on the IBM PC. The dBASE II database manager is used for creating the database and writing the programs to access the database. In the first phase, a pilot database management system was tested and suggestions were collected. This system is called Model I. In this model, the database exists in the third normal form. The students and the Placement Office personnel found this system to be not too user-friendly. Then Model I was modified to make the system more user-friendly and cut down the user-time. The modified system is called Model II, where the database is in the unnormalized form.
This study makes a comparison of Model I and Model II and analyzes the advantages and disadvantages of both the models and concludes that in order to make a database system user-friendly and cut down the user-time, sometimes a database may have to be designed in the unnormalized form; knowing that a database in unnormalized form has insertion, deletion and update anomalies.
ACKNOWLEDGMENTS

I acknowledge with thanks Dr. Nazir A. Warsi, Professor and Chairman of the Department of Computer Science and Mathematics for his advice in preparation and completion of this thesis. I thank Dr. Bennett Setzer, Associate Professor, for his patient guidance throughout my student life at Atlanta University. Also, I am thankful to Dr. Benjamin J. Martin and Mr. John Kao. My thanks are due to Ms. Kassie Freeman, Director, Placement Center, Atlanta University.

Mohan G. Singh

Atlanta,
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CHAPTER I

INTRODUCTION

The Placement Center of the Atlanta University works as an interface between the students of the Atlanta University and companies/organizations around the country. The Placement Center organizes interviews of the students with the representatives of the companies/organizations for recruitment of personnel. The Placement Center used to have a signup register. The register containing the names of companies/organizations, the date of interview and the area of concentration was available to the students. A student used to select a company and a suitable time for interview. As the number of students and the number of companies arriving to the campus increased, a computer based data management system was required. The daily administrative work of the Placement Center like sending final interview schedules to companies and organizations who would be arriving for the interviews, display of last minute changes of schedules on the bulletin board and so on had to be managed by a computer program. But the commercially available database management packages were inadequate for the requirements of the Placement Center. So, a menu-driven and user-friendly database management program was designed for the Placement Center.
The programs are written using dBASE II. dBASE II is a relational database management software package. The programs are implemented on IBM Personal Computer. The programs written were first tested as a pilot project. This set of programs is called Model I. The Model I required several modifications in order to make the programs more user-friendly and consume less time of the user. The modified version of the first program is called Model II.

Model I is described in Chapter II of this study, and Model II in Chapter III. A comparison of the two models is given in Chapter IV. The programs of Model I and Model II are listed in Appendices A and B.

1.1. Assumptions in Designing the Database:

Before designing a database, the facts and assumptions involved in the database have to be examined. The facts and assumptions in the database designed for the Placement Center of the Atlanta University are the following.

There are interview times determined by the Placement Center and most of the companies that visit the campus follow this set of interview times. The students who sign up for these thirteen interview times are said to be in the 'regular list.' All the students, who sign up after the
regular list is filled, are said to be in the 'overflow list.' The Placement Center arranges different interview dates and times for the students in the overflow list.

When a student has signed up for a particular interview time in a company, that particular interview time should not be displayed on the screen. Also, the database should not be easily accessible to the students.

The companies as well as the Placement Center wish to know the concentrations or majors and the dates of graduation of all the students who have signed up.

The companies specify the dates of interview and the concentrations or majors in which they are interested. A company visiting the campus for interviews may have the interviews in more than one day. A company may have the interviews only in the morning or only in the afternoon or both. A company may send more than one representative for interviewing, and the company may have the interviews in two different rooms on the same day, or the morning and the afternoon interviews in the same room on the same day. The database designed either for Model I or Model II program should be able to handle all these possibilities.
CHAPTER II

MODEL I

Model I is a relational database management system in which attributes and their relationships are represented with two dimensional tables. The attributes in Model I are given in Table 2.1.

Table 2.1

Attributes in Model I

Name of the interviewing company/organization
Interview date
Interview Day
Room numbers of interview
Concentration in which the company is interested
Interview times: 13 per day
Names of the students signed up for the company
Concentration of each student signed up
Date of graduation of each student signed up

When the above nine attributes are represented using a two-dimensional table, the relationships among them can be easily established.
The major concept in the relational database model is the 'normalization process.' The first step in normalization consists of transforming the data items into a two-dimensional table. When such a tabling is done, the field names are shown at the beginning of each column of the table. The table thus obtained is known as the 'unnormalized form' of the database. When Model I given in Table 2.1 is reduced into a two-dimensional table, it appears as shown in Table 2.2. There are thirteen interview times for each company or organization that interviews at the Atlanta University. The thirteen interview times are shown in each record and they are known as 'repeating groups of values.'

There are three normalization forms of every database, which are: first, second and third. The normalization of a database is required in order to remove the insertion, deletion and update anomalies of the database. In the first normal form of the database, the primary key is identified, and the repeating groups in a field are removed. The un-normalized form of Model I, when reduced into the first normal form, appears as shown in Table 2.3. In this table, each crossing of a row and a column contains only one data value, as the repeating groups do not exist any more.
TABLE 2.2

Unnormalized form of Model I

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>DATE</th>
<th>ROOM: DAY</th>
<th>CON</th>
<th>TIME</th>
<th>NAME</th>
<th>CON</th>
<th>DA:GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comp 1</td>
<td>...</td>
<td>...</td>
<td>Repeating groups</td>
<td>Repeating groups</td>
<td>..</td>
<td>..</td>
<td></td>
</tr>
<tr>
<td>Comp 2</td>
<td>...</td>
<td>...</td>
<td>Repeating groups</td>
<td>Repeating groups</td>
<td>..</td>
<td>..</td>
<td></td>
</tr>
</tbody>
</table>

COMPANY --: Name of the company; DATE --: Date of interview
DAY --: Day of interview; ROOM:NUM: Interviewing room number
TIME --: Interview time; NAME --: Student name; CONC --:
Concentration of student; DA:GR --: Date of graduation
### TABLE 2.3

**First Normal Form of Model I**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>DATE</th>
<th>ROOM: NUM</th>
<th>TIME</th>
<th>DAY</th>
<th>NAME</th>
<th>CONC</th>
<th>DA:GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comp 1</td>
<td>. .</td>
<td>Room 1</td>
<td>Time 1</td>
<td>.</td>
<td>Name 1</td>
<td>. .</td>
<td>. .</td>
</tr>
<tr>
<td>Comp 1</td>
<td>. .</td>
<td>Room 2</td>
<td>Time 2</td>
<td>.</td>
<td>Name 2</td>
<td>. .</td>
<td>. .</td>
</tr>
<tr>
<td>Comp 1</td>
<td>. .</td>
<td>Room 1</td>
<td>Time 3</td>
<td>.</td>
<td>Name 3</td>
<td>. .</td>
<td>. .</td>
</tr>
<tr>
<td>Comp 1</td>
<td>. .</td>
<td>Room 1</td>
<td>Time 4</td>
<td>.</td>
<td>Name 4</td>
<td>. .</td>
<td>. .</td>
</tr>
</tbody>
</table>

The repeating groups of values are removed

Primary key --: COMPANY + DATE + ROOM:NUM + TIME
The primary key in a database uniquely identifies each record. This is important in the data query operations. The primary key of Model I is `COMPANY + DATE + ROOM:NUM + TIME`. The company name alone cannot uniquely identify a record. However, the combination of company name, date of interview, room number of interview and interview time can uniquely identify.

A relation is said to be in the second normal form when every nonkey attribute is fully functionally dependent on the primary key. In the first normal form of Model I (Table 2.3), the nonkey attributes: Concentration of the Student (CONC) and the Date of Graduation of the Student (DA:GR) are not fully functionally dependent on the primary key `COMPANY + DATE + ROOM:NUM + TIME`. In the second normal form, the first normal table is reduced into a series of tables until full functional dependency of nonkey attributes on the primary key is established. When the first normal form of Model I is reduced into the second normal form, two tables are obtained as shown in Table 2.4 and Table 2.5. The two tables are named COMPANY TABLE and STUDENT TABLE. The primary key of the first table is: `COMPANY + DATE + ROOM:NUM + TIME` and the primary key of the second table is `NAME`. In the STUDENT TABLE, the nonkey attributes Concentration of the Student (CONC) and Date of Graduation (DA:GR) are fully functionally dependent on the primary key `NAME`. 
**TABLE 2.4**

Second Normal Form of Model I: COMPANY TABLE

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>DATE</th>
<th>ROOM: NUM</th>
<th>TIME</th>
<th>DAY</th>
<th>CON</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comp 1</td>
<td>...</td>
<td>Room 1</td>
<td>Time 1</td>
<td>...</td>
<td>...</td>
<td>Name 1</td>
</tr>
<tr>
<td>Comp 1</td>
<td>....</td>
<td>Room 1</td>
<td>Time 2</td>
<td>...</td>
<td>...</td>
<td>Name 2</td>
</tr>
<tr>
<td>Comp1</td>
<td>....</td>
<td>Room 1</td>
<td>Time 3</td>
<td>...</td>
<td>...</td>
<td>Name 3</td>
</tr>
<tr>
<td>Comp 1</td>
<td>....</td>
<td>Room 1</td>
<td>Time 4</td>
<td>...</td>
<td>...</td>
<td>Name 4</td>
</tr>
</tbody>
</table>

Full functional dependency of nonkey attributes on the primary key --: COMPANY + DATE + ROOM:NUM + TIME
TABLE 2.5

Second Normal Form of Model I: STUDENT TABLE

<table>
<thead>
<tr>
<th>NAME</th>
<th>CONC</th>
<th>DA:GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name 1</td>
<td>Conc 1</td>
<td>Da:Gr 1</td>
</tr>
<tr>
<td>Name 2</td>
<td>Conc 2</td>
<td>Da:Gr 2</td>
</tr>
<tr>
<td>Name 3</td>
<td>Conc 3</td>
<td>Da:Gr 3</td>
</tr>
<tr>
<td>Name 4</td>
<td>Conc 4</td>
<td>Da:Gr 4</td>
</tr>
</tbody>
</table>

Full functional dependency of nonkey attributes
on the primary key --: NAME
A relation is said to be in the third normal form if there is no transitive functional dependency between the nonkey attributes. If one nonkey attribute can be determined with one or more nonkey attributes, there is said to be transitive functional dependency between the two. The nonkey attributes of COMPANY TABLE or those of the STUDENT TABLE do not have transitive functional dependencies. Thus the second normal relation of Model I, also exists in the third normal form.

Justification of Primary Key COMPANY+DATE+ROOM:NUM+TIME:

A company may interview the students, on the campus, on different dates. Then, the name of the company is the same but the dates are different. The primary key COMPANY + DATE + ROOM:NUM + TIME can be used to locate a desired record.

A company may interview on the same date with the standard interview times in two different rooms. In such a case, the records are unique, as the room numbers are different. The primary key COMPANY + DATE + ROOM:NUM + TIME can access a desired record. Certain companies interview on 'half-closed' and/or 'half-open' bases. In half-closed basis, the interviews are held in the afternoon, but not in the morning; opposite is the situation in the case of half-open basis. Suppose a company holds interviews in the
the same room on the same day, on half-closed and half-open bases, then the interview times are different, as the morning or afternoon interview times are closed. The primary key COMPANY + DATE + ROOM: NO + TIME can locate a desired record in this type of situation also. However, the name of a company in such a special situation also remains the same as the records are unique to access.

Working Method of Model I:

   The program asks the student to enter his/her name. Next, his/her concentration and date of graduation are collected. Then, a list containing the names of companies, the dates of interviews and the concentrations is displayed. When the student enters a company name, all the available interview times of the selected company are displayed on the screen. From this list, the student can select an interview time, or he/she can exit. The COMPANY TABLE is updated with the student's name. Also, the STUDENT TABLE is updated if the name of the student appears for the first time in the database. Every student has three chances to sign up. A student, however, can exit from any part of the program before completing three turns. There are thirteen interview times set by the Placement Center and most of the companies visiting the campus adhere to these times.
Whenever a company name is added to the COMPANY TABLE, the name of the company, the date of interview, the day of interview, room number and the concentration are copied into blank records and appended. The field TIME contains numbers 10 through 22 in the thirteen records. The records are indexed on the field TIME to obtain the same order as given above. If all the interview times are signed up, then new records are added and field TIME has a number greater than 22. Then the student is said to have signed up in the 'overflow list.' The ascending numbers in the field TIME also serve as the serial numbers to the students in the overflow-list. The available interview time is displayed only if the field NAME is blank in a record.

Using the Utility Programs of Model I, records can be added, deleted, recalled and edited, and reports can be printed. When the password OFF is entered for the student name, the menu of the utility programs appears on the screen.
### TABLE 2.6

**STRUCTURE OF FILE NEW.DBF**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPANY</td>
<td>C</td>
<td>20</td>
</tr>
<tr>
<td>DATE</td>
<td>C</td>
<td>15</td>
</tr>
<tr>
<td>ROOM:NUM</td>
<td>C</td>
<td>03</td>
</tr>
<tr>
<td>TIME</td>
<td>C</td>
<td>02</td>
</tr>
<tr>
<td>DAY</td>
<td>C</td>
<td>12</td>
</tr>
<tr>
<td>CON</td>
<td>C</td>
<td>12</td>
</tr>
<tr>
<td>NAME</td>
<td>C</td>
<td>20</td>
</tr>
</tbody>
</table>

### TABLE 2.7

**STRUCTURE OF FILE : NEWSTU.DBF**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME</td>
<td>C</td>
<td>20</td>
</tr>
<tr>
<td>CONC</td>
<td>C</td>
<td>20</td>
</tr>
<tr>
<td>DA:GR</td>
<td>C</td>
<td>20</td>
</tr>
</tbody>
</table>
CHAPTER III

MODEL II

The modifications in Model I to make the program more user-friendly led to Model II. In Model II, there is only one database file. All the 13 interview times are put in one record. Also, up to seven students can sign in overflow slots after the 13 interview times are filled out. The fields of the database file are shown in Table 3.1. The relation shown in this table is in the unnormalized form. However, there are not many insertion, deletion and update anomalies common to unnormalized database models.

dBASE II generates and assigns a record number to each record in the database file. Model II uses these internally generated record numbers for accessing the records. This technique is used to save record-searching time. The record number generated by dBASE II is not an attribute. And, it is not a part of the database structure that is designed.

The dBASE II generated record numbers for searching the unnormalized database appears to be against the norms of database management. But, this approach is chosen to make the program easy to use and cut down the user time in signing up process.
**TABLE 3.1**

**UNNORMALIZED FORM OF MODEL II**

| OF7 | OF6 | OF5 | OF4 | OF3 | OF2 | OF1 | SLOT13 | SLOT12 | SLOT11 | SLOT10 | SLOT9 | SLOT8 | SLOT7 | SLOT6 | SLOT5 | SLOT4 | SLOT3 | SLOT2 | SLOT1 | ROOM | CON | DAY | COMPDATE | NAME | DBASE II GENERATED RECORD NUMBER |
Working of Model II:

Before the signing up session begins, the Placement Center has to take a printout of the list of companies using the utility programs of Model II. This list of companies also contains the record number assigned by dBASE II to each company arriving for the interviews. When the sign up session starts, the program first gets the name, concentration and date of graduation of the student. Then, the program asks for the record number. The student can look into the list of companies and enter the record number corresponding to the company of his/her choice. The program directly goes to the record given by the user and displays all the interview times. Any of the fields SLOT1 through SLOT13 that are blank are displayed on the screen. The user can choose a suitable interview time out of the displayed choices. When the user selects a choice, the program makes a string concatenation of the name of the student with his concentration and his graduation date. Then, the whole string is placed in the interview time selected by the student. After this updating, the program does not display this as an interview time that is open. If all the interview times are filled out, the name of the student is put in an overflow slot. Every student is given 3 chances of signing up.
The utility program written for the Placement Center personnel can be used for addition, deletion, recalling and editing of records. Reports can be generated using this set of utility programs. The data are neatly aligned in the reports as the whole field is printed out and the string concatenations are done before each update of the database. There are two report generating routines, one for generating the reports to be sent to companies, and the other for printing the names of the companies and the record numbers assigned by dBASE II which may be used by the students before signing up for a company. If the password OFF is entered when the student name is requested, the program branches to the menu of the utility programs.
CHAPTER IV

COMPARISON OF MODEL I AND MODEL II PROGRAMS

Advantages of Model I

Model I conforms to sound database design principles. As the database of Model I exists in third normal form, the deletion, insertion and update anomalies do not arise.

Up to 76 students can sign up for a Company. Out of this thirteen students can sign up for the standard interview times and the rest in the overflow-list. The students who are in the overflow-list are serially numbered using the numbers 23 onwards in the field TIME.

The two database files NEW.DBF and NEWSTU.DBF are smaller in size.

Limitations of Model I

When reports are to be generated, the two database files NEW.DBF and NEWSTU.DBF are to be joined. This joint operation consumes long user-time and sometimes leads to inaccurate results in the printouts. Also, the time consumed in printing reports is longer in Model I.
Before a student can sign up, the list of companies is displayed on the monitor, sixteen at a time. If the number of companies is large, the process of displaying the companies and selecting a company consumes more user-time.

A floppy diskette of 360K can accommodate about 30 companies, as space is required for two index files: DINDEX.NDX and TINDEX.NDX. Also, space is required for the database file, ANNOTATE.DBF, which results after 'joining' the two database files NEW.DBF and NEWSTU.DBF. This limitation makes the disk management difficult.

Model I proves to be inadequate both to the students and the Placement Center personnel, in terms of time, accuracy and ease of use.

Advantages of Model II

The student enters the record number of a company in order to reach a company in the database. The user-time consumed by this is minimal. Name of the student, his/her concentration and date of graduation are joined using string concatenation process. Then, the whole string is replaced into a field to complete the signing up. The updating needs to be done in only in one source, which consumes less user-time.
The editing of the database is relatively easier as the editing process needs to be done in only one place.

The user-time consumed in printing reports is minimal because the information to be printed comes from a single field at a time. If a student has signed up for a company, his concentration and date of graduation are concatenated with the interview time for which he has signed up. While printing reports, the processed string is printed in one line of the report at a time.

**Limitations of Model II:**

Before a signing up session can begin, the Placement Center personnel should take a printout containing the names of companies and the record numbers assigned to them by the dBASE II. This prerequisite needs to be done before every signing up session.

The database exists in the unnormalized form. Also, the database file is big consuming 998 characters per record.

There can be only seven overflow students in the database and they do not have any serial number as to say who signed up first in the overflow list. When a student needs to be taken from the overflow list and put in the regular list, it may be difficult to ascertain who is first.
The reading time for database file COMPANY.DBF is longer compared to database file NEW.DBF of Model I.

When a name is removed from the regular list, a name from the overflow list does not come to the regular list automatically, the updating has to be done manually.

**Conclusion:**

In order to make the database program user-friendly and faster, the database file needs to be configured, sometimes, in the unnormalized form. A database is reduced to the third normal form to avoid the insertion, deletion and update anomalies. The database in Model II exists in unnormalized form, but anomalies common to unnormalized databases have not been noticed so far.
APPENDIX A

MODEL I

Database Files:

NEW.DBF
NEWSTU.DBF

Programs of Model I:

MOHAN.PRG
DING.PRG
MENU.PRG
REPORTS.PRG
ADDITION.PRG
DELETION.PRG
YANK.PRG
EDIT.PRG
**NAME OF THE PROCEDURE : MOHAN.PRG**

**PROCEDURE WRITTEN BY : MOHAN G. SINGH**

**DATE WRITTEN : 05/12/1985**

**OBJECTIVE OF THE PROCEDURE:**

1) **NAME** is stored in the variable : FULLNAME.
2) **CONCENTRATION** is stored in the variable : COO.
3) **DATE OF GRADUATION** is stored in the variable : DGO.

SET TALK OFF
* SET TALK OFF SUPPRresses THE TALK ECHOED BY THE DBASE II.

CLEAR
* THIS CLEARS OFF THE MEMORY OF THE COMPUTER FROM ALL FILES

SET DELETED OFF
* THE DELETED RECORDS ARE NOT DISREGARDED

ERASE
* THIS CLEARS THE SCREEN

@ 12,10 SAY "HOLD ON PLEASE..."
@ 14,10 SAY "I AM PREPARING FOR THE DAY..."

* THE DATABASE FILE COMPANY.DBF ON DISK DRIVE B: IS ACCESSED

USE B:NEW
INDEX ON DATE TO B:DINDEX
INDEX ON COMPANY + DATE + ROOM + NO + TIME TO B:TINDEX

* USE THE DATABASE FILE COMPANY.DBF ALONG WITH THE INDEX FILE DINDEX.NDX
* BOTH THESE FILES ARE ON THE DATA DISK, WHICH IS KEPT IN DISK DRIVE B.

* THE DATABASE FILE COMPANY.DBF IS ALREADY INDEXED ON THE FILED COMPDATE.

DO WHILE T
* DO THE FOLLOWING SECTION WHILE ALL THE VARIABLE ARE TRUE. THIS COMMAND HELPS
* FOR LOOPING THE STRUCTURE UNTIL A VARIABLE IS TRUE.

ERASE
* ERASE COMMAND CLEARS THE SCREEN

"#" ATLANTA UNIVERSITY PLACEMENT CENTER"#'

"#"
********** Please Enter Your Complete Name '?
ACCEPT "************** Format : FIRST MI LAST :" TO FULLNAME ?
IF FULLNAME = "QUIT"
* IF THE USER ENTERS QUIT HERE, THE PROGRAM EXITS TO THE OPERATING SYSTEM -
  DOS
QUIT
ENDIF
IF FULLNAME = "OFF"
* IF THE USER ENTERS OFF HERE, THE PROGRAM GOES TO THE PLACEMENT CENTER MENU.
DO MENU
* THE DO COMMAND EXECUTES A PROCEDURE
LOOP
* THE LOOP COMMAND ACCEPTS THE PROGRAM FROM ANY PROCEDURE AND FROM THIS POINT
* LOOP BACK TO THE BEGINNING OF THE PROGRAM.
ENDIF
ERASE
* THE FOLLOWING ARE THE LIST OF CONCENTRATIONS OF THE STUDENTS IN THE
* THE ATLANTA UNIVERSITY WHO WISH TO HAVE INTERVIEWS WITH THE COMPANIES
* A MENU OF THE LIST OF CONCENTRATIONS APPEARS BELOW
********** LIST OF CONCENTRATIONS **********

<table>
<thead>
<tr>
<th>1. ACCOUNTING</th>
<th>2. DECISION SCIENCE</th>
<th>3. FINANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. MANAGEMENT</td>
<td>5. MARKETING</td>
<td>6. ACCT/DEC SC</td>
</tr>
<tr>
<td>7. ACCT/FIN</td>
<td>8. ACCT/MGMT</td>
<td>9. ACCT/MKTG</td>
</tr>
<tr>
<td>10. DEC SC/FIN</td>
<td>11. DEC SC/MGMT</td>
<td>12. DEC SC/MKTG</td>
</tr>
<tr>
<td>13. FIN/MGMT</td>
<td>14. FIN/MKTG</td>
<td>15. MAGMT/MKTG</td>
</tr>
<tr>
<td>16. BIOLOGY</td>
<td>17. CHEMISTRY</td>
<td>18. COMPUTER SCIENCE</td>
</tr>
<tr>
<td>19. EDUCATION</td>
<td>20. ECONOMICS</td>
<td>21. LIBRARY SCIENCE</td>
</tr>
</tbody>
</table>
Enter a Serial Number from the Above List ";
THE MEMORY VARIABLE COO ACCEPTS THE SERIAL NUMBER FROM THE USER
* THIS IS AN ERROR TRAP
LOOP
ENDIF
IF COO = 1
STORE 'ACCOUNTING' TO CO
ENDIF
IF COO=2
STORE 'DECISION SC' TO CO
ENDIF
IF COO=3
STORE 'FINANCE' TO CO
ENDIF
IF COO=4
STORE 'MANAGEMENT' TO CO
ENDIF
IF COO=5
STORE 'MARKETING' TO CO
ENDIF
IF COO=6
STORE 'ACCT/DEC SC' TO CO
ENDIF
IF COO=7
STORE 'ACCT/FIN' TO CO
ENDIF
IF COO=8
STORE 'ACCT/MGMT' TO CO
ENDIF
IF COO=9
STORE 'ACCT/MKTG' TO CO
ENDIF
IF COO=10
STORE 'DEC SC/FIN' TO CO
ENDIF
IF COO=11
STORE 'DEC SC/MGMT' TO CO
ENDIF
IF COO=12
STORE 'DEC SC/MKTG' TO CO
ENDIF

IF COO=13
STORE 'FIN/MTG' TO CO
ENDIF
IF COO=14
STORE 'FIN/MKTG' TO CO
ENDIF
IF COO=15
STORE 'MGMT/MKTG' TO CO
ENDIF
IF COO=16
STORE 'BIOLOGY' TO CO
ENDIF
IF COO=17
STORE 'CHEMISTRY' TO CO
ENDIF
IF COO=18
STORE 'COMP SCIENCE' TO CO
ENDIF
IF COO=19
STORE 'EDUCATION' TO CO
ENDIF
IF COO=20
STORE 'ECONOMICS' TO CO
ENDIF
IF COO=21
STORE 'LIBRARY SC' TO CO
ENDIF
IF COO=22
STORE 'MATHEMATICS' TO CO
ENDIF
IF COO=23
STORE 'LIBERAL ARTS' TO CO
ENDIF
IF COO=24
STORE 'OTHERS' TO CO
ENDIF
ERASE
* THE FOLLOWING IS THE LIST OF DATES OF GRADUATION IN THE ATLANTA UNIVERSITY
* THE USER CAN CHOOSE ONE OF THE GRADUATION DATES.
?
?************************** LIST OF DATES OF GRADUATION ***********************
?
?*:*
*:*
?:*:*:*
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1. MAY 85

2. JUL 85
INPUT "Select Your Date of Graduation" TO DGO
* THE DATE OF GRADUATION IS SAVED IN THE MEMORY VARIABLE DGO
IF DGO<1 .OR. DGO > 6
*
* THIS IS DONE FOR ERROR-TRAPPING
LOOP
ENDIF
IF DGO=1
STORE 'MAY 85' TO DG
ENDIF
IF DGO=2
STORE 'JUL 85' TO DG
ENDIF
IF DGO=3
STORE 'DEC 85' TO DG
ENDIF
IF DGO=4
STORE 'MAY 86' TO DG
ENDIF
IF DGO=5
STORE 'JUL 86' TO DG
ENDIF
IF DGO=6
STORE 'DEC 86' TO DG
ENDIF
ERAUS
@ 12,35 SAY "One moment please..."
*
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE SIGNUP.PRG
DO DING
LOOP
* THE END OF THE PROCEDURE IS SHOWN BY THE COMMAND LOOP.
ENDDO
*
******************************************************************************
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******************************************************************************
NAME OF THE PROCEDURE : DING.PRG

PROCEDURE WRITTEN BY : MOHAN G. SINGH

DATE WRITTEN : 05/12/1985

OBJECTIVE OF THE PROCEDURE :

THE PROCEDURE GETS THE RECORD NUMBER FROM THE USER. THEN IT GOES TO THE
CORRECT RECORD NUMBER AND DISPLAYS THE DETAILS OF THE COMPANY AND THE
AVAILABLE TIME-SLOTS. FROM THE AVAILABLE TIME-SLOTS, THE USER CAN CHOOSE
ONE. THE PROGRAM RESERVES THE TIME-SLOT FOR THIS STUDENT FOR WHICH HE OPTED
AND IT WILL NOT BE DISPLAYED.

SET TALK OFF

STORE " " TO BLANK

SET THE ECHO BACK OF MESSAGES FROM THE SYSTEM OFF.
STORE 1 TO FLAG1

INITIALIZE A COUNTER CALLED FLAG1 TO 1.

DO WHILE T

ERASE

?"COMPANY DATE DAY ROOM NO CONCENTRATION"

USE 6:NEWINDEX B:DINDEX
GOTO TOP
DO WHILE .NOT. EOF
IF TIME ="10"
DISPLAY OFF COMPANY,DATE,DAY,ROOM:NO,CON
ENDIF
SKIP
ENDDO

CLEAR THE SCREEN

?'

Type QUIT to exit

?

ACCEPT " PLEASE ENTER THE COMPANY NAME YOU WISH TO SIGNUP : " TO COMPNAME
IF COMPNAME = "QUIT"
RETURN
ENDIF
IF COMPNAME = "OFF"
DO MENU
ENDIF
Enter the date of interview in the format: MM/DD/YY

ACCEPT "Enter the date of interview of the company you have selected" to DOI

ACCEPT "Enter the Room Number of interview" to ROOM

LOCATE FOR COMPANY+DATE+ROOM: NO = ('$\{\text{COMPNAME + BLANK}\},1,20') + ;
$\{\text{DOI + BLANK}\},1,15)+$\{\text{ROOM + BLANK}\},1,3)
IF COMPANY + DATE + ROOM: NO <> $\{\text{COMPNAME + BLANK},1,20\} +
$\{\text{DOI + BLANK},1,15\}+$\{\text{ROOM + BLANK},1,3\}
ERASE
?
LOOP
ENDIF
ERASE

* FORMAT THE SCREEN IN THE FOLLOWING MANNER: *
* WHERE @ POSITIONS THE CURSOR TO THE X AND Y COORDINATES SPECIFIED AFTER *
* @ IN THE COMMAND. *
STORE 0 TO COUNTER
SELECT PRIMARY
USE B:NEW INDEX B:INDEX
LOCATE FOR COMPANY+DATE+ROOM: NO =
$\{\text{COMPNAME + BLANK},1,20\}+$\{\text{DOI + BLANK},1,15\};
+$\{\text{ROOM + BLANK},1,3\}
* @
@ 1,1 SAY "Name of the Company:"
@ 1,22 SAY P.COMPANY
@ 1,50 SAY "Concentr:"
@ 1, 61 SAY con
@ 2,1 SAY "Date of Interview:"
@ 2,21 SAY DATE
@ 2,50 SAY "Day:"
@ 2,55 SAY DAY
?

STORE 0 TO COUNTER
IF TIME = "10"
IF NAME = "
@ 5,10 SAY "1. 09:00 - 09:30 am"
STORE 1 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "11"
IF NAME = "
@ 5,50 say "2. 09:30 - 10:00 am"
STORE 2 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "12"
IF NAME = "


@ 7:10 SAY "3. 10:15 - 10:45 am"
STORE 3 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "13"
IF NAME = ""
@ 7,50 SAY "4. 10:45 - 11:15 am"
STORE 4 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "14"
IF NAME = ""
@ 9,10 SAY "5. 11:15 - 11:45 am"
STORE 5 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "15"
IF NAME = ""
@ 9,50 SAY "6. 11:45 - 12:30 pm"
STORE 6 TO COUNTER
ENDIF
ENDIF
skip
IF TIME = "16"
IF NAME = ""
@ 11,10 SAY "7. 1:01:30 - 02:00 pm"
STORE 7 TO COUNTER
ENDIF
ENDIF
SKIP
IF TIME = "17"
IF NAME = ""
@ 11,50 SAY "8. 02:00 - 02:30 pm"
STORE 8 TO COUNTER
ENDIF
ENDIF
skip
IF TIME = "18"
IF NAME = ""
@ 13,10 SAY "9. 02:30 - 03:00 pm"
STORE 9 TO COUNTER
ENDIF
ENDIF
skip
IF TIME = "19"
IF NAME = ""
@ 13,50 SAY "10. 03:15 - 03:45 pm"
STORE 10 TO COUNTER
ENDIF
ENDIF
skip
IF TIME = "20"
  IF NAME = ""
    @ 15,10 SAY "11. 03:45 - 04:15 pm"
    STORE 11 TO COUNTER
  ENDIF
ENDIF
SKIP
IF TIME = "21"
  IF NAME = ""
    @ 15,50 SAY "12. 04:15 - 04:45 pm"
    STORE 12 TO COUNTER
  ENDIF
ENDIF
SKIP
IF TIME = "22"
  IF NAME = ""
    @ 17,10 SAY "13. 04:45 - 05:15 pm"
    STORE 13 TO COUNTER
  ENDIF
ENDIF
IF COUNTER = 0
  ?
  ?' ALL THE INTERVIEW TIMES FOR THE COMPANY'
  ?
  ?' OF YOUR CHOICE HAVE BEEN FILLED OUT.'
  ?
  ?' YOUR NAME WILL BE KEPT IN THE OVERFLOW'
  ?
  ?' LIST.'
  COUNT FOR TIME > "22" TO CONTU
  LOCATE FOR COMPANY + DATE+ROOM:NO = $(COMPNAME+BLANK),1,20)+;
  +((DOI+BLANK),1,15)+((ROOM+BLANK),1,3)
  STORE COMPANY TO CO
  STORE DATE TO DA
  STORE DAY TO DY
  STORE CON TO CN
  STORE ROOM:NO TO RN
  STORE CONTU+23 TO CONTU
  APPEND BLANK
  REPLACE P.COMPANY WITH CO, DATE WITH DA, CON WITH CN, TIME WITH STR(CONTU,2)
  REPLACE P.NAME WITH FULLNAME, DAY WITH DY,ROOM:NO WITH RN
ENDIF
IF COUNTER <> 0
  @ 19,12 SAY "0. Thanks, I Do Not Wish to Sign-up for Any of These"
  ?
  INPUT " Enter the number of your choice " to TIMESEL
  IF TIMESEL = 0
    LOOP
  ENDIF
  STORE TIMESEL+9 TO TIMER
  STORE STR(TIMER,2) TO WHAT
  STORE $(COMPNAME + BLANK),1,20) TO GOOD
  LOCATE FOR COMPANY + TIME+DATE= GOOD + WHAT+$((DOI+BLANK),1,15)
IF NAME = 
  REPLACE NAME WITH FULLNAME
  SELECT SECONDARY
  USE B:NEWSTU
  LOCATE FOR S.NAME = FULLNAME
  IF S.NAME <> FULLNAME
    APPEND BLANK
    REPLACE S.NAME WITH FULLNAME, CONC WITH CO, DA:GR WITH DG
    ENDF
    STORE FLAG1+1 TO FLAG1
    ENDF
    ENDF
    IF FLAG1 <=3
      LOOP
    ELSE
      RETURN
    ENDIF
    RETURN
  *
******************************************************************************
****************************************************************************** END OF PROCEDURE : DING.PRG ******************************************************************************
******************************************************************************
**NAME OF THE PROCEDURE : MENU.PRG**

**OBJECTIVE OF THIS PROCEDURE :**

This procedure displays the main menu of the utility programs which can be used by the placement center office personnel. There are 9 options available in the main menu.

After an option is chosen, the program branches to one of the procedures and executes it. After the procedure is performed, the program branches back to the main menu. By this the user does not get the '.' prompt of the DBASE II.

Do while T
Set talk off
Erase

Display the main menu on the screen in the following format

---

**THE ATLANTA UNIVERSITY PLACEMENT CENTER**

**MAIN MENU**

---

1. Print reports to submit to companies
2. Add a company to the list of companies
3. Delete a record
4. Recall a deleted record
5. Edit records
6. Quit this menu

Input "SELECT YOUR CHOICE BY TYPING ONE OF THE NUMBERS " TO
MENUCHOICE;
ICE
* WAIT FOR THE INPUT OF THE CHOICE TO THE VARIABLE MENUCHOICE
IF MENUCHOICE = 1
ERASE
@12,38 SAY "One moment please..."
DO REPORTS
LOOP
* WHEN THE PROGRAM RETURNS FROM REPORTS.PRG, IT COMES HERE, FROM HERE, THE
* LOOPS TO THE BEGINNING BY THE LOOP COMMAND.
ENDIF
IF MENUCHOICE = 2
ERASE
@12,38 SAY "One moment please..."
DO ADDITION
LOOP
ENDIF
IF MENUCHOICE = 3
ERASE
@12,30 SAY "One moment please..."
DO DELETION
LOOP
ENDIF
IF MENUCHOICE = 4
ERASE
@12,30 SAY "One moment please..."
DO YANK
LOOP
ENDIF
IF MENUCHOICE = 5
ERASE
@12,30 say "One moment please..."
DO EDIT
LOOP
ENDIF
IF MENUCHOICE = 6
ERASE
@12,30 SAY "One moment please..."
RETURN
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE : MOHAN.PRG, FROM WHERE
* IT CAME.
ENDIF
ENDDO
***************************************************************************
******************* END OF THE PROCEDURE : MENU.PRG ***********************
***************************************************************************

ENDIF
IF MENUCHOICE = 5
ERASE
@12,30 say "One moment please..."
DO EDIT
LOOP
ENDIF
IF MENUCHOICE = 6
ERASE
@ 12,30 SAY "One moment please..."
RETURN
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE : MOHAN.PRG, FROM WHERE
* IT CAME.
ENDIF
ENDDO

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**NAME OF THE PROCEDURE : REPORTS.PRG**

**OBJECTIVE OF THIS PROCEDURE :**

* THIS PROCEDURE PRINTS THE REPORTS ONE AT A TIME OR CONTINUOUSLY. TO PERFORM * THIS, A SUBMENU IS DISPLAYED ON THE SCREEN. FROM THE SUBMENU, ONE CAN PRINT * THE REPORTS ONE AT A TIME BY GIVING THE RECORD NUMBER. BY SPECIFYING THE * BEGINNING AND THE ENDING DATES, ALL THE RECORDS THAT FALL WITHIN THE RANGE * OF THIS DATE ARE PRINTED CONTINUOUSLY.

SET TALK OFF
SET DELETED ON
* EVEN THE DELETED RECORDS ARE PRINTED.

DO WHILE T
    STORE " TO BLANK
    SELECT PRIMARY
    USE B:NEW INDEX B:TINDEX
    SELECT SECONDARY
    USE B:NEWSTU
    JOIN TO B:ANNOTATE FOR NAME = S.NAME
    SELECT PRIMARY
    ERASE
    ?' ATLANTA UNIVERSITY PLACEMENT CENTER'
    ?'
    ?'COMPANY DATE DAY ROOM NO CONCENTRATION'
    ?'

GOTO TOP
DO WHILE .NOT. EOF
    IF TIME = "10"
    DISPLAY OFF COMPANY,DATE,DAY,ROOM:NO,CON
    ENDIF
    SKIP
ENDDO

? Enter QUIT to exit'
?

ACCEPT " Enter the name of the company " TO PINKY
    IF PINKY = "QUIT"
    RETURN
    ENDIF

? Enter the date of interview in the format : MM/DD/YY'
?

ACCEPT " ENTER THE DATE OF INTERVIEW " TO DI
?
ACCEPT " ENTER THE ROOM NUMBER " TO RU
USE B:ANNOTATE
LOCATE FOR COMPANY+DATE+ROOM:NO = $((PINKY+BLANK),1,20) + $((DI+BLANK),1,15);
+$(RU+BLANK),1,3)
ERASE
SET PRINT ON
ATLANTA UNIVERSITY PLACEMENT CENTER

? "NAME OF THE COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "ROOM NUMBER :
ROOM
? "THE COMPANY IS LOOKING FOR THE CONCENTRATION OF :
CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
mented
? "DAY OF INTERVIEW :
DAY
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ROOM
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CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "ROOM NUMBER :
ROOM
? "THE COMPANY IS LOOKING FOR THE CONCENTRATION OF :
CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "ROOM NUMBER :
ROOM
? "THE COMPANY IS LOOKING FOR THE CONCENTRATION OF :
CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "ROOM NUMBER :
ROOM
? "THE COMPANY IS LOOKING FOR THE CONCENTRATION OF :
CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "ROOM NUMBER :
ROOM
? "THE COMPANY IS LOOKING FOR THE CONCENTRATION OF :
CON
? "NAME OF COMPANY COMING FOR INTERVIEW :'
COMPANY
? "DATE OF INTERVIEW :
DATE
? "DAY OF INTERVIEW :
DAY
? "$((RD+BLANK),1,3)
SET MARGIN TO 5
DO WHILE .NOT. EOF
IF COMPANY + DATE+ROOM:NO= $((PINKY+BLANK),1,20) + $((DI+BLANK),1,15);
+$(RU+BLANK),1,3)
LIST OFF NAME,CONC,DA:GR
ENDIF
SKIP
ENDDO
EJECT
SET PRINT OFF
RETURN
****************************************************************************** END OF PROCEDURE : REPORTS.PRG******************************************************************************
NAME OF THE PROCEDURE : ADDITION.PRG

******************************************************************
*                                                                    *
* THIS PROCEDURE IS WRITTEN BY MOHAN G. SINGH ON 05/12/1985       *
* OBJECTIVE OF THE PROCEDURE :                                       *
* THIS PROCEDURE ADDS RECORDS TO THE INDEXED DATABASE FILE          *
* AFTER THE EXECUTION OF THE PROCEDURE, THE PROGRAM BRANCHES BACK TO THE*
* PROCEDURE : MENU.PRG WHICH CONTAINS THE MAIN MENU.                 *
*
SET TALK OFF
DO WHILE T
* DO THIS PROCEDURE WHILE THE FLOW OF PROGRAM IS TRUE.
ERASE
@ 12,10 SAY " "
* GET THE NAME OF THE COMPANY
? Enter the Name of the Company - Maximum 22 characters)'
?
ACCEPT " ENTER THE NAME OF THE COMPANY " TO ENTCOMP
ERASE
@ 10,10 SAY "ENTER THE DATE OF INTERVIEW CAREFULLY, THE FORMAT OF DATE IS :"
@ 12,10 SAY "MM/DD/YR FOR EXAMPLE JAN 5TH 1985 IS ENTERED AS : 01/05/85"
* STORE 8 BLANK SPACES INTO THE VARIABLE ENTDAT
STORE " TO ENTDAT
* Set the FORMAT OF THE ENTERED DATE TO : MM/DD/YY/ BY THE PICTURE CLAUSE:
99/99/99
* @ 14,10 SAY "ENTER THE DATE :FORMAT - MM/DD/YY :" GET ENTDAT PICTURE
99/99/99;
* The READ command is used to READ BLANK MEMORY VARIABLE - ENTDAT
READ
ERASE
@ 10,10 SAY "ENTER THE DAY OF INTERVIEW - EX: WEDNESDAY"
? ?
* GET THE DAY OF THE DATE THAT WAS ENTERED ABOVE
* ACCEPT " REFER TO CALENDER AND ENTER HERE " TO ENTDAY
ERASE
@ 10,10 SAY "ENTER THE CONCENTRATION THE COMPANY IS LOOKING FOR. PLEASE DO "
@ 12,10 SAY "NOT MISTAKE THIS WITH THE CONCENTRATION OF THE STUDENTS"
@ 14,10 SAY "Maximum of 12 Characters Please"
@ 16,10 SAY "For Example : DEC SC/MAKTG"
?
* GET THE CONCENTRATION OF THE COMPANY
ACCEPT " ENTER HERE PLEASE " TO ECON
?
?
ACCEPT " Enter the Room Number of interview " to JKH
* THE FOLLOWING DISPLAYS THE CONTENTS OF THE MEMORY VARIABLES AND ASKS THE
* USER WHETHER EVERYTHING SHOWN IS ALRIGHT. IF THE USER ANSWERS 'N', THE
* PROCEDURE RESTARTS.
ERASE
@ 10,10 SAY "Name of the Company : ":
@ 10,32 SAY ENTCOMP
@ 12,10 SAY "Date of Interview : ":
@ 12,29 SAY ENTDATE
@ 12,50 SAY "Day of Interview : ":
@ 12,68 SAY ENTDAY
@ 14,10 SAY "Concentration: ":
@ 14,26 SAY ECON
@ 16,10 SAY "Room Number : ":
@ 18,25 say JKH
@ 20,15 SAY "Is Everything Shown Above Is Correct ?"?
?
INPUT " Answer Y(es or N(o " TO WONDER
IF .NOT. WONDER
LOOP
ENDIF
STORE 10 TO CNN
DO WHILE CNN <= 22
* IF THE ANSWER TO THE ABOVE QUESTION WAS YES, A BLANK RECORD IS APPENDED TO
* THE DATABASE FILE : COMPANY.DBF
APPEND BLANK
* THE FOLLOWING REPLACEMENTS ARE DONE FOR THE FIELDS WITH THE MEMORY VARIABLES
* AND THE STANDARD TIMES OF INTERVIEWS.
REPLACE COMPANY WITH ENTCOMP
REPLACE DATE WITH ENTDATE
REPLACE DAY WITH ENTDAY
REPLACE CON WITH ECON
REPLACE TIME WITH STR(CNN,2)
REPLACE ROOM:NO WITH JKH
STORE CNN+1 TO CNN
ENDDO
ERASE
?
?
?
?
?' Do you wish to add one more company ? '
?
?
input " Y or N " to DON
IF DON
loop
else
USE B:NEW
INDEX ON COMPANY + DATE+ROOM:NO+TIME TO B:TINDEX
INDEX ON DATE TO B:DINDEX
return
endif
enddo
*
*********************** END OF THE PROCEDURE : ADDITION.PRG ***********************

*******************************************************************************
PROCEDURE WRITTEN BY: MOHAN G. SINGH

DATE WRITTEN: 05/12/1985

OBJECTIVE OF THIS PROCEDURE:

This procedure adds deletes records from the database file by affixing a '*' beside the record number. Whenever the system sees all such records, it disregards from processing. The record is thus physically not removed from the database file, but only hidden from the processing. In this type of situation it is possible to call back the deleted records.

SET TALK OFF
SHOW THE DELETED RECORDS ALSO
DO WHILE T
USE B; NEW INDEX B; DIM INDEX
GOTO TOP
ERASE
?'COMPA NY DATE DAY ROOM NO CONCENTRATION'
?'-----------------------------------------------'
DO WHILE .NOT. EOF
IF TIME = "10"
DISPLAY OFF COMPANY, DATE, DAY, ROOM: NO, CON
ENDIF
SKIP
ENDDO
?
?' Type EXIT to QUIT'
?
accept "Enter the name of the company " to LILLY
IF LILLY = "QUIT"
RETURN
ENDIF
?
ACCEPT " Enter the interview date " TO RED
STORE " TO BLANK
?
?' Refer to the standard interview times and their serial nos.'
?
accept " Enter the Room number of the interview " to ga
?
INPUT " Enter the serial number of interview " to BING
STORE BING+9 TO BING
USE B; NEW INDEX B; ?INDEX
-
LOCATE FOR
COMPANY+DATE+ROOM:NO+TIME=$((LILLY+BLANK),1,20)+$((RED+BLANK),1,15);
+$((GA+BLANK),1,3)+STR(BING,2)
IF COMPANY + DATE + ROOM: NO + TIME <> $((LILLY + BLANK),1,20) +;
$((RED+BLANK),1,15)+$((GA+BLANK),1,3)+STR(BING,2)
LOOP
ENDIF
DELETE
ERASE
?
?
?
?
?
?
Do you wish to delete one more company ?'
?
input " Y or N " to ming
if ming
loop
else
return
*
* BRANCH BACK TO THE PROCEDURE MENU.PRG WHICH CONTAINS THE MAIN MENU
******************************************************************************
******************************************************************************
****************************************************************************** END OF PROCEDURE : DELETION.PRG ****************************
******************************************************************************
NAME OF THE PROCEDURE : YANK.PRG

PROCEDURE WRITTEN BY : MOHAN G. SINGH

DATE WRITTEN : 05/12/1985

OBJECTIVE OF THE PROGRAM :

THIS PROGRAM RECALLS A DELETED RECORD. MANY TIMES THE PLACEMENT CENTER
WANTS TO HIDE A RECORD FROM THE STUDENT TO COVER CERTAIN UNCERTAINITIES. WHEN
THE SITUATION IS DEFINITE, THE PLACEMENT CENTER WANTS TO DISPLAY THE HIDDEN
RECORDS TO THE STUDENTS FOR SIGNING UP PURPOSES. IN SUCH A CASE, THIS PROCEDURE
IS USEFUL.

SET TALK OFF
SET DELETED OFF
* INCLUDE THE DELETED RECORDS IN PROCESSING.
DO WHILE T
ERASE
?
? Company Date Day Room Num Concentration

use B:\NEW INDEX B:DINDEX
geto top
do while .not. eof
if time = "10"
display off company, date, day, room:no,con
endif
skip
endo
do
?
? Type QUIT to exit'
?
accept " Enter the name of the company " to GOD
if god = "QUIT"
return
endif
?
ACCEPT " Enter the interview date " to mori
store " to BLANK
?
? Refer to serial number of standard interview time'
?
input " Enter the serial number of interview time " to FOOD
STORE FOOD+9 TO FOOD
LOCATE FOR COMPANY + date +room:no+ TIME = $((GOD+BLANK),1,20) ;
+$((mori+blank),1,15)+str(food,2)
WHICH, if a time-slot is available, it is displayed.

IF COUNTER <> 0
* IF THE COUNTER = 0 THEN THERE ARE NO FREE TIME-SLOTS AVAILABLE. IN THAT
* CASE THE FOLLOWING PROCEDURE IS SKIPPED AND THE PROGRAM BRANCHES TO
* IF COMPSEL = 0 CONDITION.
@ 19,12 SAY "0. Thanks, I Do Not Wish to Sign-up for Any of These"
?
?
INPUT *

Enter your selection of time-slot here * TO TIMESEL
ERASE

IF TIMESEL = 0
* IF THE COUNTER TIMESSEL IS EQUAL TO ZERO, THEN THE PROGRAM BRANCHES TO THE
* BEGINNING OF THE PROCEDURE
ERASE
LOOP
ENDIF

THE FOLLOWING ASKS THE USER WHETHER THE SELECTION MADE IS CORRECT. IF THE
* ANSWER IS Y, UPDATING OF THE DATABASE FILE IS DONE, OTHERWISE, IT GOES
* BACK TO THE BEGINNING OF THE PROCEDURE.
@ 10,10 SAY FULLNAME
@ 12, LEN(FULLNAME)+10 SAY ","
@ 12,15 SAY "The Company you have chosen is: "
@ 12,47 SAY P.COMPANY
IF TIMESEL = 1
@ 14,20 SAY "The Interview Time is:"
@ 14,43 SAY A1
?
INPUT *

Is This Correct, Answer Y(es or N(o " TO QUEST1
* THE STUDENT IS GIVEN A CHANCE TO MAKE UP HIS MIND TO SIGNUP FOR THE COMPANY
* OR NOT. IF THE ANSWER IS N, THE SIGNING-UP IS NOT DONE.
IF .NOT. QUEST1
LOOP
* LOOP TO THE BEGINNING OF THIS PROCEDURE. THAT IS POINT II IN FLOWCHART.
ELSE
STORE TRIM(A1) TO ALL
REPLACE SLOT1 WITH A1+BLANK+$((FULLNAME +
BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
* THE FIELD SLOT1 IS REPLACED WITH THE ABOVE CONCATENATED STRING.
ENDIF
ENDIF
IF TIMESEL = 2
@ 14,20 SAY "The Interview Time is:"
STORE TRIM(A2) TO A22
@ 14,43 SAY A22
?
INPUT *

Is This Correct, Answer Y(es or N(o " TO QUEST2
IF .NOT. QUEST2
LOOP
ELSE
REPLACE SLOT2 WITH A22+BLANK+$((FULLNAME +
BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 3
RECALL
ERASE
?
?'
INPUT " Enter Y or N " to moody
IF MOODY LOOP ELSE RETURN

**************************************** END OF PROCEDURE : YANK.PRG ****************************************

**************************************** END OF PROCEDURE : YANK.PRG ****************************************
NAME OF THE PROCEDURE : EDIT.PRG

PROCEDURE WRITTEN BY : MOHAN. G. SINGH

DATE WRITTEN : 05/12/1985

OBJECTIVE OF THE PROCEDURE :

TO EDIT ANY RECORD IN THE DATABASE THIS PROCEDURE CAN BE USED. USING THIS FACILITY ANY INFORMATION CONTAINED IN ANY RECORD CAN BE ALTERED. THIS IS A POWERFUL AND USEFUL UTILITY PROGRAM. WHENEVER STUDENTS WANT CHANGE THEIR SCHEDULES OR ALTER THEIR INTERVIEW TIMINGS OR A COMPANY WISHES TO CHANGE ITS INTERVIEW DATE OR INTERVIEW TIMINGS OR FOR THAT MATTER ANY CHANGE IN THE RECORD CAN BE CHANGED EASILY USING THIS PROCEDURE.

SET TALK OFF
SET DELETED OFF
DO WHILE T
ERASE
? COMPANY
USE B:NEW INDEX B:INDEX
GOTO TOP
DO WHILE NOT. EOF
IF TIME = "10"
DISPLAY OFF COMPANY, DATE, DAY, room:no, CON
ENDIF
SKIP
ENDDO
?
?] Type QUIT to exit ?
? accept " Enter the name of the company " to THERESA
IF THERESA = "QUIT"
RETURN
ENDIF
?
ACCEPT " Enter the interview date to " to BEAUTY
STORE " TO BLANK
?
?] Refer to standard times interview times' ?
input " Enter the serial number of the interview time " to THER
store THER+9 TO THER
?
accept " Enter the Room number of interview " to mch
LOCATE FOR COMPANY + DATE+ROOM:no+ TIME = $((THERESA + BLANK),1,20) +;
$((BEAUTY+BLANK),1,15)+$((MCH+BLANK),1,3)+STR(THER,2)
IF COMPANY + DATE + ROOM:no + TIME <>$((THERESA + BLANK),1,20) +;
$((BEAUTY+BLANK),1,15)+$((MCH+BLANK),1,3)+STR(THER,2)
LOOP
ENDIF
ERASE
@ 4,1 SAY "Name of the Company:"
@ 4,22 GET COMPANY
@ 4,50 SAY "Concentr:"
@ 4,60 GET CON
@ 7,1 SAY "Date:"
@ 7,7 GET DATE
@ 7,30 SAY "Day:"
@ 7,35 GET DAY
@ 9,1 SAY "Name:"
@ 9,7 GET NAME
@ 11,1 SAY "Room Number:"
@ 11,15 SAY ROOM: NO
* READ THE DATA DIRECTLY FROM THE FIELDS.
READ
ERASE
@ 10,10 SAY "Do you wish to edit one more company?"
?
?
INPUT "Answer Y(es) or N(o) TO THERESA"
IF THERESA
* BRANCH BACK TO THE BEGINNING OF THE PROGRAM
LOOP
ENDIF
ERASE
@ 12,35 SAY "One moment please..."
RETURN
* BRANCH TO THE PROCEDURE MENU.PRG
*
*************** END OF THE PROCEDURE : EDIT.PRG ***********************
********************************************************************************
APPENDIX B

MODEL II

Database File

COMPANY.DBF

Programs of Model II

MOHAN.PRG
SIGNUP.PRG
MENU.PRG
REPORTS.PRG
ADDITION.PRG
DELETION.PRG
YANK.PRG
EDIT.PRG
REPSCREE.PRG
ROOMNUMB.PRG
STATS.PRG
**PROCEDURE WRITTEN BY:** MOHAN G. SINGH

**DATE WRITTEN:** 20/12/1984

**OBJECTIVE OF THE PROCEDURE:**

This procedure accepts the name, concentration and date of graduation from the student who is willing to sign up for an interview.

1) **NAME** is stored in the variable: FULLNAME.
2) **CONCENTRATION** is stored in the variable: COO.
3) **DATE OF GRADUATION** is stored in the variable: DGO.

**SET TALK OFF**

* SET TALK OFF suppresses the talk echoed by the DBASE II.

**CLEAR**

* This clears off the memory of the computer from all files.

**SET DELETED OFF**

* The deleted records are not disregarded.

**ERASE**

* This clears the screen.

@ 12.10 SAY "HOLD ON PLEASE..."
@ 14.10 SAY "I AM PREPARING FOR THE DAY..."

**THE DATABASE FILE COMPANY.DBF ON DISK DRIVE B: IS ACCESSED**

**USE B:COMPANY INDEX ON COMPDATE TO B:INDEX**

* Use the database file COMPANY.DBF along with the index file DINDEX.NDX.

* Both these files are on the data disk, which is kept in disk drive B.

**THE DATABASE FILE COMPANY.DBF IS ALREADY INDEXED ON THE FILED COMPDATE.**

**DO WHILE T**

* Do the following section while all the variable are true. This command helps.

**FOR LOOPING THE STRUCTURE UNTIL A VARIABLE IS TRUE.**

**ERASE**

* ERASE command clears the screen.

`#`Atlanta University Placement Center

`#`
*************** Please Enter Your Complete Name ***************

ACCEPT "*************** Format: FIRST MI LAST:" TO FULLNAME

* IF FULLNAME = "QUIT"
  * IF THE USER ENTERS QUIT HERE, THE PROGRAM EXITS TO THE OPERATING SYSTEM
  * DOS QUIT
  * ENDIF

* IF FULLNAME = "OFF"
  * IF THE USER ENTERS OFF HERE, THE PROGRAM GOES TO THE PLACEMENT CENTER MENU.

DO MENU
  * THE DO COMMAND EXECUTES A PROCEDURE
ENDIF

ERASE
  * THE FOLLOWING ARE THE LIST OF CONCENTRATIONS OF THE STUDENTS IN THE
  * ATLANTA UNIVERSITY WHO WISH TO HAVE INTERVIEWS WITH THE COMPANIES
  * A MENU OF THE LIST OF CONCENTRATIONS APPEARS BELOW

*************** LIST OF CONCENTRATIONS ****************************

1. ACCOUNTING
2. DECISION SCIENCE
3. FINANCE

4. MANAGEMENT
5. MARKETING
6. ACCT/DEC SC

7. ACCT/FIN
8. ACCT/MGMT
9. ACCT/MKTG

10. DEC SC/FIN
11. DEC SC/MGMT
12. DEC SC/MKTG

13. FIN/MGMT
14. FIN/MKTG
15. MAGMT/MKTG

16. BIOLOGY
17. CHEMISTRY
18. COMPUTER SCIENCE

19. EDUCATION
20. ECONOMICS
21. LIBRARY SCIENCE
INPUT "Enter a Serial Number from the Above List ";
TO COO
* THE MEMORY VARIABLE COO ACCEPTS THE SERIAL NUMBER FROM THE USER
IF COO < 1 .OR. COO > 24
 *
* THIS IS AN ERROR TRAP
LOOP
ENDIF
IF COO = 1
STORE 'ACCOUNTING' TO CO
ENDIF
IF COO=2
STORE 'DECISION SC' TO CO
ENDIF
IF COO=3
STORE 'FINANCE' TO CO
ENDIF
IF COO=4
STORE 'MANAGEMENT' TO CO
ENDIF
IF COO=5
STORE 'MARKETING' TO CO
ENDIF
IF COO=6
STORE 'ACCT/DEC SC' TO CO
ENDIF
IF COO=7
STORE 'ACCT/FIN' TO CO
ENDIF
IF COO=8
STORE 'ACCT/MGMT' TO CO
ENDIF
IF COO=9
STORE 'ACCT/MAKTG' TO CO
ENDIF
IF COO=10
STORE 'DEC SC/FIN' TO CO
ENDIF
IF COO=11
STORE 'DEC SC/MGMT' TO CO
ENDIF
IF COO=12
STORE 'DEC SC/MKTG' TO CO
ENDIF
IF COO=13
1. MAY 85

2. JUL 85
3. DEC 85
4. MAY 86
5. JUL 86
6. DEC 86

************************************************************************
"Select Your Date of Graduation" TO DGO
* THE DATE OF GRADUATION IS SAVED IN THE MEMORY VARIABLE DGO
IF DGO<1 .OR. DGO > 6
* THIS IS DONE FOR ERROR-TRAPPING
LOOP
ENDIF
IF DGO=1
STORE 'MAY 85' TO DG
ENDIF
IF DGO=2
STORE 'JUL 85' TO DG
ENDIF
IF DGO=3
STORE 'DEC 85' TO DG
ENDIF
IF DGO=4
STORE 'MAY 86' TO DG
ENDIF
IF DGO=5
STORE 'JUL 86' TO DG
ENDIF
IF DGO=6
STORE 'DEC 86' TO DG
ENDIF
ERASE
@ 12,35 SAY "One moment please..."
*
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE SIGNUP.PRG
*
DO SIGNUP
LOOP
* THE END OF THE PROCEDURE IS SHOWN BY THE COMMAND LOOP.
ENDDO
*
************************** END OF PROCEDURE : MOHAN.PRG **************************
*******************************************************************************
**NAME OF THE PROCEDURE : SIGNUP.PRG**

**PROCEDURE WRITTEN BY : MOHAN G. SINGH**

**DATE WRITTEN : 12/20/1984**

**OBJECTIVE OF THE PROCEDURE :**

- The procedure gets the record number from the user. Then it goes to the correct record number and displays the details of the company and the available time-slots. From the available time-slots, the user can choose one. The program reserves the time-slot for this student for which he opted and it will not be displayed.

SET TALK OFF

SET THE ECHO BACK OF MESSAGES FROM THE SYSTEM OFF.

STORE 1 TO FLAG1

* INITIALIZE A COUNTER CALLED FLAG1 TO 1.

STORE 29 BLANKS IN THE VARIABLE : BLANKS.

STORE " " TO BLANKS

STORE 3 BLANKS IN THE VARIABLE : BLANK.

STORE " " TO BLANK

DO WHILE T

ERASE

* CLEAR THE SCREEN

@ 8,1 SAY " ENTER THE NUMBER OF THE COMPANY YOU WISH TO SIGNUP FROM THE LIST:

ON THE DESK."

@ 12,1 SAY " IF YOU WISH TO SIGNOFF NOW, ENTER THE NUMBER 0 AND PRESS RETURN."

? ?

INPUT " " TO COMPSEL

IF COMPSEL = 0

* IF THE NUMBER ENTERED BY THE USER IS 0, THEN THE PROGRAM BRANCHES TO THE

PROCEDURE : MOHAN. PRG WHICH IS THE BEGINNING OF THE PROGRAM.

ERASE

RETURN

ENDIF

* END OF COMPSEL = 0 CONDITION.

GOTO COMPSEL

* GOTO THE RECORD NUMBER WHICH THE STUDENT SELECTED

ERASE

* FORMAT THE SCREEN IN THE FOLLOWING MANNER:
WHERE @ POSITIONS THE CURSOR TO THE X AND Y COORDINATES SPECIFIED AFTER @ IN THE COMMAND.

@ 1,1 SAY "Name of the Company :"  
@ 1,22 SAY P.COMPANY  
@ 1,50 SAY "Concentr :"  
@ 1,61 SAY con  
@ 2,1 SAY "Date of Interview :"  
@ 2,21 SAY COMPDATE  
@ 2,50 SAY "Day :"  
@ 2,55 SAY DAY

FROM THE FIELDS, TAKE THEIR CONTENTS AND STORE THEM INTO THE VARIABLES.
* THERE ARE 13 FIELDS CONTAINING THE TIME-SLOTS IN THE FIRST 11 PLACES AND BLANKS IN THE NEXT 49 PLACES.
* SLOT1 THRU SLOT13 ARE STORED INTO A1 THRU A13.

STORE SLOT1 TO A1  
STORE SLOT2 TO A2  
STORE SLOT3 TO A3  
STORE SLOT4 TO A4  
STORE SLOT5 TO A5  
STORE SLOT6 TO A6  
STORE SLOT7 TO A7  
STORE SLOT8 TO A8  
STORE SLOT9 TO A9  
STORE SLOT10 TO A10  
STORE SLOT11 TO A11  
STORE SLOT12 TO A12  
STORE SLOT13 TO A13  
STORE 0 TO COUNTER

STORE 0 TO COUNTER. IF THE COUNTER REMAINS 0 AFTER THE FOLLOWING 13 COMPARISONS, THE CONCLUSION IS THAT THERE ARE NO AVAILABLE TIME-SLOTS FOR THIS COMPANY. SO THE PROCEDURE STORES THE NAME OF THE STUDENT IN THE OVERFLOW LIST.

IF $(A1,12,60) = "  
* IF THE STRING A1 CONTAINS 49 BLANKS FROM 12TH POSITION TO 60 POSITION, THEN DO THE FOLLOWING STATEMENTS ELSE GO TO THE NEXT IF STATEMENT.
* THIS IS PERFORMED FOR ALL THE 13 VARIABLES

STORE 1 TO COUNTER  
@ 5,10 SAY "1."  
@ 5,13 SAY A1  
ENDIF

* SELECT THE CONTENTS OF THE STRING FROM 12TH COLUMN TO 60TH COLUMN AND COMPARE
* IT WITH 49 BLANKS.

IF $(A2,12,60) = "  
STORE 2 TO COUNTER  
@ 5,50 SAY "2."  
@ 5,53 SAY A2  
ENDIF

IF $(A3,12,60) = "  
STORE 3 TO COUNTER  
@ 7,10 SAY "3."
IF $(A4,12,60)="$
STORE 4 TO COUNTER
@ 7,50 SAY "4."
@ 7,53 SAY A4
ENDIF
IF $(A5,12,60)="$
STORE 5 TO COUNTER
@ 9,10 SAY "5."
@ 9,13 SAY A5
ENDIF
IF $(A6,12,60)="$
STORE 6 TO COUNTER
@ 9,50 SAY "6."
@ 9,53 SAY A6
ENDIF
IF $(A7,12,60)="$
STORE 7 TO COUNTER
@ 11,10 SAY "7."
@ 11,13 SAY A7
ENDIF
IF $(A8,12,60)="$
STORE 8 TO COUNTER
@ 11,50 SAY "8."
@ 11,53 SAY A8
ENDIF
IF $(A9,12,60)="$
STORE 9 TO COUNTER
@ 13,10 SAY "9."
@ 13,13 SAY A9
ENDIF
IF $(A10,12,60)="$
STORE 10 TO COUNTER
@ 13,49 SAY "10."
@ 13,53 SAY A10
ENDIF
IF $(A11,12,60)="$
STORE 11 TO COUNTER
@ 15,9 SAY "11."
@ 15,13 SAY A11
ENDIF
IF $(A12,12,60)="$
STORE 12 TO COUNTER
@ 15,49 SAY "12."
@ 15,53 SAY A12
ENDIF
IF $(A13,12,60)="$
STORE 13 TO COUNTER
@ 17,9 SAY "13."
@ 17,13 SAY A13
ENDIF
* THE ABOVE 13 COMPARISONS CHECK WHETHER A TIME SLOT IS AVAILABLE OR NOT.
AFTER
* WHICH, IF A TIME-SLOT IS AVAILABLE, IT IS DISPLAYED.
IF COUNTER <> 0
* IF THE COUNTER = 0 THEN THERE ARE NO FREE TIME-SLOTS AVAILABLE. IN THAT
* CASE THE FOLLOWING PROCEDURE IS SKIPPED AND THE PROGRAM BRANCHES TO
* IF COMPSEL = 0 CONDITION.
@ 19,12 SAY "0. Thanks, I Do Not Wish to Sign-up for Any of These"
?
?
INPUT " Enter your selection of time-slot here " TO TIMESEL
ERASE
IF TIMESEL = 0
* IF THE COUNTER TIMESEL IS EQUAL TO ZERO, THEN THE PROGRAM BRANCHES TO THE
* BEGINNING OF THE PROCEDURE
ERASE
LOOP
ENDIF
* THE FOLLOWING ASKS THE USER WHETHER THE SELECTION MADE IS CORRECT. IF THE
* ANSWER IS Y, UPDATING OF THE DATABASE FILE IS DONE, OTHERWISE, IT GOES
* BACK TO THE BEGINNING OF THE PROCEDURE.
@ 10,10 SAY FULLNAME
@ 10, LEN(FULLNAME)+10 SAY ","
@ 12,15 SAY "The Company you have chosen is: 
@ 12,47 SAY P.COMPANY
IF TIMESEL = 1
@ 14,20 SAY "The Interview Time is:
@ 14,43 SAY A1
?
INPUT " Is This Correct, Answer Y(es) or N(o) " TO QUEST1
* THE STUDENT IS GIVEN A CHANCE TO MAKE UP HIS MIND TO SIGN UP FOR THE COMPANY
* OR NOT. IF THE ANSWER IS N, THE SIGNING-UP IS NOT DONE.
IF .NOT. QUEST1
LOOP
* LOOP TO THE BEGINNING OF THIS PROCEDURE. THAT IS POINT II IN FLOWCHART.
ELSE
STORE TRIM(A1) TO A1
REPLACE SLOT1 WITH A1+BLANK+$((FULLNAME +
BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
* THE FIELD SLOT1 IS REPLACED WITH THE ABOVE CONCATENATED STRING.
ENDIF
ENDIF
IF TIMESEL = 2
@ 14,20 SAY "The Interview Time is:
STORE TRIM(A2) TO A22
@ 14,43 SAY A22
?
INPUT " Is This Correct, Answer Y(es) or N(o) " TO QUEST2
IF .NOT. QUEST2
LOOP
ELSE
REPLACE SLOT2 WITH A22+BLANK+$((FULLNAME +
BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 3
@ 14,20 SAY "The Interview Time is:"
STORE TRIM(A3) TO A33
@ 14,43 SAY A33
?
INPUT " Is This Correct, Answer Y(es or N(o " TO QUEST3
IF .NOT. QUEST3
LOOP
ELSE
REPLACE SLOT3 WITH A33+BLANK+$((FULLNAME +
BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 4
@ 14,20 SAY "The Interview Time is:"
@ 14,43 SAY A4
?
INPUT " Is This Correct, Answer Y(es or N(o " TO QUEST4
IF .NOT. QUEST4
LOOP
ELSE
STORE TRIM(A4) TO A44
REPLACE SLOT4 WITH A44+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 5
@ 14,20 SAY "The Interview Time is:"
@ 14,43 SAY A5
?
INPUT " Is This Correct, Answer Y(es or N(o " TO QUEST5
IF .NOT. QUEST5
LOOP
ELSE
STORE TRIM(A5) TO A55
REPLACE SLOT5 WITH A55+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 6
@ 14,20 SAY "The Interview Time is:"
@ 14,43 SAY A6
?
INPUT " Is This Correct, Answer Y(es or N(o " TO QUEST6
IF .NOT. QUEST6
LOOP
ELSE
STORE TRIM(A6) TO A66
REPLACE SLOT6 WITH A66+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 7
@ 14,20 SAY "The Interview Time is:"
@ 14,43 SAY A7
?
INPUT " Is This Correct, Answer Y(es or N(o " TO QUEST7
IF .NOT. QUEST7
LOOP
ELSE
STORE TRIM(A7) TO A77
REPLACE SLOT7 WITH A77+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL= 8
@ 14,20 SAY "The Interview Time is :"
@ 14,43 SAY A8
?
INPUT "Is This Correct, Answer Y(es) or N(o) " TO QUEST8
IF .NOT. QUEST8
LOOP
ELSE
STORE TRIM(A8) TO A88
REPLACE SLOTS WITH A88+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 9
@ 14,20 SAY "The Interview Time is :"
@ 14,43 SAY A9
?
INPUT "Is This Correct, Answer Y(es) or N(o) " TO QUEST9
IF .NOT. QUEST9
LOOP
ELSE
STORE TRIM(A9) TO A99
REPLACE SLOTS WITH A99+BLANK +$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 10
@ 14,20 SAY "The Interview Time is :"
@ 14,43 SAY A10
?
INPUT "Is This Correct, Answer Y(es) or N(o) " TO QUEST10
IF .NOT. QUEST10
LOOP
ELSE
STORE TRIM(A10) TO ALOO
REPLACE SLOTS WITH
ALOO+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 11
@ 14,20 SAY "The Interview Time is :"
@ 14,43 say A11
?
INPUT "Is This Correct, Answer Y(es) or N(o) " TO QUEST11
IF .NOT. QUEST11
LOOP
ELSE
STORE TRIM(A11) TO ALOM
REPLACE SLOTS WITH
IF TIMESEL = 12
@ 14,20 SAY "The Interview Time is :"
@ 14,43 SAY A12
?
INPUT "Is This Correct, Answer Y(es or N(o " TO QUEST12
IF .NOT. QUEST12
LOOP
ELSE
STORE TRIM(A12) TO APOM
REPLACE SLOT12 WITH
APOM+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
IF TIMESEL = 13
@ 14,20 SAY "The Interview Time is :"
@ 14,43 SAY A13
?
INPUT "Is This Correct, Answer Y(es or N(o " TO QUEST13
IF .NOT. QUEST13
LOOP
ELSE
STORE TRIM(A13) TO AP0B
REPLACE SLOT13 WITH
AP0B+BLANK+$((FULLNAME+BLANKS),1,25)+$((CO+BLANKS),1,15)+DG
ENDIF
ENDIF
STORE FLAG1+1 TO FLAG1
ENDIF
IF COUNTER = 0
* IF COUNTER = 0, ALL THE AVAILABLE TIME-SLOTS ARE FILLED, SO THE NAME IS
* PLACED IN THE OVERFLOW LIST.
@ 10,5 SAY FULLNAME
@ 10,LEN(FULLNAME)+5 SAY ","
@ 12,10 SAY "All the time-slots for this company are filled out."
@ 14,10 SAY "I shall keep your name in the Overflow List."
IF OF1=""
@ 16,12 say "You Are the First Person in the Overflow List."
REPLACE OF1 WITH FULLNAME
ELSE
IF OF2=""
@ 16,12 say "You Are the Second Person in the Overflow List."
REPLACE OF2 WITH FULLNAME
ELSE
IF OF3=""
@ 16,12 say "You Are the Third Person in the Overflow List."
REPLACE OF3 WITH FULLNAME
ELSE
IF OF4=""
@ 16,12 SAY "You Are the Fourth Person in the Overflow List."
REPLACE OF4 WITH FULLNAME
ELSE
IF OP5=""  
  @ 16,12 SAY "You are the Fifth Person in the Overflow List."
  REPLACE OP5 WITH FULLNAME
ELSE
  IF OP6=""  
  @ 16,12 SAY "You are the Sixth Person in the Overflow List."
  REPLACE OP6 WITH FULLNAME
ELSE
  IF OP7=""  
  @ 16,12 SAY "You are the Seventh Person in the Overflow List."
  REPLACE OP7 WITH FULLNAME
ELSE  
  @ 12,10  
  @ 14,10  
  @ 16,10 SAY "All the Regular Time-slots and the Overflow List is Filled Out."
  @ 18,10 SAY "Consult the Placement Office About This."
ENDIF
ENDIF
ENDIF
ENDIF
ENDIF
ENDIF
ENDIF
* ALL THE IFS ARE MATCHED WITH ENDIFS HERE
@ 24,55 SAY "Press Return to Continue"
SET CONSOLE OFF
WAIT
SET CONSOLE ON
ENDIF
ERASE
IF FLG1 <= 3  
* A MAXIMUM OF THREE CHANCES ARE GIVEN TO A USER FOR SIGNING UP. THE FLG1  
* IS A COUNTER WHICH keeps THE RECORD OF THE NUMBER OF LOOPS.
* IF THE NAME OF A USER GOES INTO THE OVERFLOW LIST, IT IS NOT COUNTED AS
* AN ATTEMPT OF SIGNUP.
  @ 12,10 SAY FULLNAME  
  @ 12,LEN(FULLNAME)+10 say ","  
  @ 14,15 SAY "Do You Wish to Signup for One More Company?"
  ?  
  ?
INPUT " Enter Your Response Y(es or N(o) " TO WISH
IF WISH  
* IF THE USER WISHES TO SIGNUP FOR ONE MORE COMPANY AND ANSWERS Y HERE, THE
* PROGRAM LOOPS BACK TO THE BEGINNING OF THE PROCEDURE.
LOOP
ENDIF
ERASE
@ 10,15 SAY FULLNAME  
@ 10,LEN(FULLNAME)+15 SAY "." 
@ 12,39 SAY "BYE"
* THE PROGRAM RETURNS TO THE PROCEDURE MOHAN.PRG
RETURN
***************************************************************************** END OF PROCEDURE SIGNUP.PRG *****************************************************************************
NAME OF THE PROCEDURE : MENU.PRG

PROCEDURE WRITTEN BY : MOHAN G. SINGH

DATE WRITTEN : 12/20/1984

OBJECTIVE OF THIS PROCEDURE :

THIS PROCEDURE DISPLAYS THE MAIN MENU OF THE UTILITY PROGRAMS WHICH CAN CAN BE USED BY THE PLACEMENT CENTER OFFICE PERSONNEL.

THERE ARE 9 OPTIONS AVAILABLE IN THE MAIN MENU. AFTER AN OPTION IS CHOSEN, THE PROGRAM BRANCHES TO ONE OF THE PROCEDURES AND EXECUTES IT. AFTER THE PROCEDURE IS PERFORMED, THE PROGRAM BRANCHES BACK TO THE MAIN MENU. BY THIS THE USER DOES NOT GET THE '.' PROMPT OF THE DBASE II.

DO WHILE T
SET TALK OFF
ERASE

DISPLAY THE MAIN MENU ON THE SCREEN IN THE FOLLOWING FORMAT

THE ATLANTA UNIVERSITY PLACEMENT CENTER

MAIN MENU

1. PRINT REPORTS TO SUBMIT TO COMPANIES
2. ADD A COMPANY TO THE LIST OF COMPANIES
3. DELETE A COMPANY FROM THE LIST OF COMPANIES
4. RECALL A DELETED COMPANY
5. EDIT RECORDS
6. SEE THE REPORTS ON THE SCREEN
7. ASSIGN A ROOM-NUMBER TO A COMPANY
8. PRINT OUT THE COMPANIES COMING FOR INTERVIEW
9. QUIT THIS MENU
INPUT "SELECT YOUR CHOICE BY TYPING ONE OF THE NUMBERS " TO MENUCHO;
ICE
* WAIT FOR THE INPUT OF THE CHOICE TO THE VARIABLE MENUCHOICE
IF MENUCHOICE = 1
ERASE
@ 12,38 SAY "One moment please...."
DO REPORTS
LOOP
* WHEN THE PROGRAM RETURNS FROM REPORTS.PRG, IT COMES HERE, FROM HERE, THE
* LOOPS TO THE BEGINNING BY THE LOOP COMMAND.
ENDIF
IF MENUCHOICE = 2
ERASE
@ 12,38 SAY "One moment please...
DO ADDITION
LOOP
ENDIF
IF MENUCHOICE = 3
ERASE
@ 12,30 SAY "One moment please...
DO DELETION
LOOP
ENDIF
IF MENUCHOICE = 4
ERASE
@ 12,30 SAY "One moment please...
DO YANK
LOOP
ENDIF
IF MENUCHOICE = 5
ERASE
@ 12,30 SAY "One moment please...
DO EDIT
LOOP
ENDIF
IF MENUCHOICE = 6
ERASE
@ 12,30 SAY "One moment please...
DO REPSCREEN
LOOP
ENDIF
IF MENUCHOICE = 7
ERASE
@ 12,30 SAY "One moment please...
DO ROOMNUMB
LOOP
ENDIF
IF MENUCHOICE = 8
ERASE
@12,30 SAY "One moment please..."
DO STATS
LOOP
ENDIF
IF MENUCHOICE = 9
ERASE
@12,30 SAY "One moment please..."
RETURN
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE : MOHAN.PRG, FROM WHERE
* IT CAME.
ENDIF
ENDDO
*
*****************************************************************************
END OF THE PROCEDURE : MENU.PRG ******************************
*****************************************************************************
NAME OF THE PROCEDURE : REPORTS.PRG

PROCEDURE WRITTEN BY : MOHAN G. SINGH

DATE WRITTEN : 12/20/1984

OBJECTIVE OF THIS PROCEDURE :

THIS PROCEDURE PRINTS THE REPORTS ONE AT A TIME OR CONTINUOUSLY. TO PERFORM
THIS, A SUBMENU IS DISPLAYED ON THE SCREEN. FROM THE SUBMENU, ONE CAN PRINT
THE REPORTS ONE AT A TIME BY GIVING THE RECORD NUMBER. BY SPECIFYING THE
BEGINNING AND THE ENDING DATES, ALL THE RECORDS THAT FALL WITHIN THE RANGE
OF THIS DATE ARE PRINTED CONTINUOUSLY.

SET TALK OFF
SET DELETED ON
* EVEN THE DELETED RECORDS ARE PRINTED.

DO WHILE T
ERASE
$ 10,30 SAY " MENU OF PRINTING "
$ 11,30 SAY " "
$ 15,25 SAY " 1. PRINT OUT ONE AT A TIME "
$ 17,25 SAY " 2. PRINT OUTS BETWEEN BEGINNING AND ENDING DATES"
?
  INPUT " SELECT 1 OR 2 " TO DODDA
ERASE
IF DODDA = 1
ERASE
* THE FIRST OPTION FROM THE SUBMENU IS PERFORMED HERE.
?
ATLANTA UNIVERSITY PLACEMENT CENTER

NUMBER COMPANY DATE DAY CONCENTRATION

To Select a Company Type the Corresponding Number and Press Return'
?
To Signoff Enter the Number 0 and Press Return'
?
INPUT " Please Enter the Number Here " TO THERE
IF THERE = 0
* IF THE VARIABLE THERE IS EQUAL TO 0 THE PROGRAM BRANCHES TO THE BEGINNING
ERASE
RETURN
ENDIF
GOTO THERE
ERASE
SET PRINT ON
? ? ?
? ??

DISPLAY OFF OF1
DISPLAY OFF OF2
DISPLAY OFF OF3
DISPLAY OFF OF4
DISPLAY OFF OF5
DISPLAY OFF OF6
DISPLAY OFF OF7
EJECT
SET PRINT OFF
ERASE
$12.10 SAY "Do You Wish to Print the Report for Another Company"
?
INPUT "Answer Y(es) or N(o) " TO GOOF
IF GOOF
LOOP
ELSE
ERASE
$12.35 SAY "One moment please..."
RETURN
ENDIF
ENDIF
IF DODDA = 2
ERASE
STORE " TO PF
STORE " TO EF
$17.10 SAY "Enter the beginning date:" GET PF PICTURE "99/99/99"
* THE BEGINNING DATE SHOULD HAVE THIS FORMAT, OTHERWISE THE SYSTEM WILL NOT
* ACCEPT ANY OTHER FORMAT.
$20.10 SAY "Enter the ending date:" GET EF PICTURE "99/99/99"
* THE ENDING DATE SHOULD BE IN THE SPECIFIED FORMAT.
READ
* READS THE VARIABLES ASSOCIATED WITH THE GET COMMANDS.
ERASE
GOTO TOP
* GOES TO THE TOP OF THE DATABASE FILE
DO WHILE .NOT. EOF
* DO THE FOLLOWING TILL THE END OF FILE IS REACHED.
IF COMPDATE > PF .AND. COMPDATE <= EF
* THE RULE FOR LOGICAL SELECTION OF RECORDS IS SPECIFIED HERE
ERASE
SET PRINT ON
?'
ATLANTA UNIVERSITY PLACEMENT CENTER'

?'

?'

? 'NAME OF THE COMPANY COMING FOR INTERVIEW:'
? COMPANY
? 'DATE OF INTERVIEW:'
? COMPDATE
? 'DAY OF INTERVIEW:'
? DAY
? 'ROOM NUMBER :'
? ROOM
? 'THE COMPANY IS LOOKING FOR THE CONCENTRATION OF:'
? CON
?
SET MARGIN TO 8
* SET THE MARGIN TO 8 COLUMNS.
? 'TIME SLOT    NAME OF THE STUDENT    CONCENTRATION    GRAD DATE'
?----------------- ----------------- ----------------- ---------------
DISPLAY OFF SLOT1
?
DISPLAY OFF SLOT2
?
DISPLAY OFF SLOT3
?
DISPLAY OFF SLOT4
?
DISPLAY OFF SLOT5
?
DISPLAY OFF SLOT6
?
DISPLAY OFF SLOT7
?
DISPLAY OFF SLOT8
?
DISPLAY OFF SLOT9
?
DISPLAY OFF SLOT10
?
STORE SLOT11 TO GO1.
IF $(GO1,12,60) <> "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"  
* IF THE VARIABLE STARTING FROM THE 12TH POSITION TO THE 60TH POSITION
CONTAINS
* 49 X's THEN DO NOT DISPLAY IT.
DISPLAY OFF SLOT11
?
ENDIF
STORE SLOT12 TO GO2
IF $(GO2,12,60) <> "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
DISPLAY OFF SLOT12
?
ENDIF
STORE SLOT13 TO GO3
IF $(GO3,12,60) <> "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
DISPLAY OFF SLOT13
?
ENDIF
?
' OVERFLOW LIST'
-------------------
DISPLAY OFF OF1
DISPLAY OFF OF2
DISPLAY OFF OF3
DISPLAY OFF OF4
DISPLAY OFF OF5
DISPLAY OFF OF6
DISPLAY OFF OF7
EJECT
* THIS DOES THE FORM FEED ACTION.
ENDIF
SKIP
* SKIP TO THE NEXT RECORD
ENDDO
SET PRINT OFF
* DISCONNECT THE OUTPUT TO THE PRINTER
ERASE
@ 12,35 SAY "One moment please..."
RETURN
* RETURN TO THE PROCEDURE : MENU.PRG
ENDDO
*
****************************************************************************** END OF PROCEDURE : REPORTS.PRG******************************************************************************
******************************************************************************
******************************************************************************
NAME OF THE PROCEDURE : ADDITION.PRG

***********************************************************************

* * *
*objective of the procedure:
* * *

* this procedure is written by mohan g. singh on 12/20/1985

* * *
* this procedure adds records to the indexed database file
* after the execution of the procedure, the program branches back to the
* procedure : menu.prg which contains the main menu.

set talk off
do while t
* do this procedure while the flow of program is true.
erase
@ 12,10 say " "
* get the name of the company
? enter the name of the company - maximum 22 characters)
? accept " enter the name of the company " to entcomp
erase
* get the date of interview and store it in variable entdate
@ 10,10 say "enter the date of interview carefully, the format of date is :"
@ 12,10 say "mm/dd/yr for example jan 5th 1985 is entered as : 01/05/85"
* store 8 blank spaces into the variable entdate
store " " to entdate
* set the format of the entered date to : mm/dd/yy/ by the picture clause :
99/99/99
* @ 14,10 say "enter the date :format - mm/dd/yy :" get entdate picture
99/99/99;
9
* the read command is used to read blank memory variable - entdate
read
erase
@ 10,10 say "enter the day of interview - ex: wednesday"
? 
* get the day of the date that was entered above
* accept " refer to calender and enter here " to entday
erase
@ 10,10 say "enter the concentration the company is looking for. please do "
@ 12,10 say "not mistake this with the concentration of the students"
@ 14,10 say "maximum of 12 characters please"
@ 16,10 say "for example : dec sc/maktg"
? 
* get the concentration of the company
* ACCEPT " ENTER HERE PLEASE " TO ECON
* THE FOLLOWING DISPLAYS THE CONTENTS OF THE MEMORY VARIABLES AND ASKS THE
* USER WHETHER EVERYTHING SHOWN IS ALRIGHT. IF THE USER ANSWERS 'N', THE
* PROCEDURE RESTARTS.

ERASE
@ 10,10 SAY "Name of the Company:" 
@ 10,32 SAY ENTCOMP
@ 12,10 SAY "Date of Interview:" 
@ 12,29 SAY ENTDATE
@ 12,50 SAY "Day of Interview:" 
@ 12,68 SAY ENTDAY
@ 14,10 SAY "Concentration:" 
@ 14,26 SAY ECON
@ 16,15 SAY "Is Everything Shown Above Is Correct?"
? ANY KEY

INPUT " Answer Y(es) or N(o) " TO WONDER
IF WONDER
* IF THE ANSWER TO THE ABOVE QUESTION WAS YES, A BLANK RECORD IS APPENDED TO
* THE DATABASE FILE : COMPANY.DBF

APPEND BLANK
* THE FOLLOWING REPLACEMENTS ARE DONE FOR THE FIELDS WITH THE MEMORY VARIABLES
* AND THE STANDARD TIMES OF INTERVIEWS.

REPLACE COMPANY WITH ENTCOMP
REPLACE COMPDATE WITH ENTDATE
REPLACE DAY WITH ENTDAY
REPLACE CON WITH ECON
REPLACE SLOT1 WITH "09:00-09:30"
REPLACE SLOT2 WITH "09:30-10:00"
REPLACE SLOT3 WITH "10:00-10:30"
REPLACE SLOT4 WITH "10:45-11:15"
REPLACE SLOT5 WITH "11:15-11:45"
REPLACE SLOT6 WITH "11:45-12:15"
REPLACE SLOT7 WITH "01:30-02:00"
REPLACE SLOT8 WITH "02:00-02:30"
REPLACE SLOT9 WITH "02:30-03:00"
REPLACE SLOT10 WITH "03:15-03:45"

* THE FOLLOWING 3 SLOTS ARE GIVEN TO THE PLACEMENT DIRECTOR. IN ORDER TO
* SUPPRESS THEIR DISPLAY ON THE SCREEN, X ARE FILLED INTO THE MEMORY VARIABLE.

REPLACE SLOT11 WITH "03:45-
04:15XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
REPLACE SLOT12 WITH "04:15-
04:45XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
REPLACE SLOT13 WITH "04:45-
05:15XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"

ENDIF
IF .NOT. WONDER
ERASE
@ 10,10 SAY " DO YOU WANT TO EXIT FROM THIS PROCEDURE NOW?"
?

INPUT " ANSWER Y(es) OR N(o) " TO VOTE1
IF VOTE1
ERASE
@ 12,35 SAY "One moment please..."
RETURN
ENDIF
* FROM HERE THE PROGRAM BRANCHES BACK TO THE PROCEDURE MOHAN.PRG WHICH
CONTAINS
* THE MAIN MENU
LOOP
ENDIF
ERASE
@ 12,10 SAY "Do You Wish to Add One More Company to the List of Companies ?"
?
INPUT "Answer Y(es) or N(o) " TO TON
IF TON
ERASE
LOOP
ENDIF
ERASE
@ 12,35 SAY "One moment please..."
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE MENU.PRG
RETURN
*
************************** END OF THE PROCEDURE : ADDITION.PRG **************************
************************** ....................................................................................
*******************************************************************************************
*
NAME OF THE PROCEDURE : DELETION. PRG
*
*******************************************************************************************
*
PROCEDURE WRITTEN BY : MOHAN G. SINGH
*
DATE WRITTEN : 12/20/1984
*
OBJECTIVE OF THIS PROCEDURE :
*
* THIS PROCEDURE ADDS DELETES RECORDS FROM THE DATABASE FILE BY AFFIXING A
* *' BESIDE THE RECORD NUMBER. WHENEVER THE SYSTEM SEES ALL SUCH RECORDS
* IT DISREGARDS FROM PROCESSING. THE RECORD IS THUS PHYSICALLY NOT REMOVED
* FROM THE DATABASE FILE, BUT ONLY HIDED FROM THE PROCESSING.
* IN THIS TYPE OF SITUATION IT IS POSSIBLE TO CALL BACK THE DELETED RECORDS
*
SET TALK OFF
SET DELETED OFF
* SHOW THE DELETED RECORDS ALSO
DO WHILE T
SELECT PRIMARY
ERASE
?'NUMBER COMPANY DATE DAY CONCENTRATION'
?'---------------------------------------------------'
DISPLAY ALL COMPANY,COMPDATE,DAY,CON
?
?' To Select a Company Type the Corresponding Number and Press Return'
?'?
?' To Sign-off Enter the Number 0 and Press Return'
?
INPUT " Please Enter the Number Here " to DELSEL
IF DELSEL = 0
ERASE
RETURN
* BRANCH TO THE PROCEDURE MENU.PRG
ENDIP
GOTO DELSEL
* GOTO THE CORRECT RECORD
ERASE
@ 10,10 SAY "Are You Sure that You Want to Delete the Company ?"
* GIVE ANOTHER CHANCE TO THE USER TO MAKE UP HIS/HER MIND
?
DISPLAY OFF COMPANY, COMPDATE, DAY
?
INPUT " Answer Y(es) or N(0) " to MTHOMAS
IF .NOT. MTHOMAS
LOOP
* GO BACK TO THE BEGINNING OF THE PROGRAM.
ENDIF
DELETE
* DELETE THE RECORD
ERASE
@ 10,10 SAY "Do You Wish to Delete One More Company ?"
? 
? INPUT " Answer Y(es or N(o) " TO MQ
IF MQ
LOOP:
* BRANCH BACK TO THE BEGINNING OF THE PROGRAM
ENDIP
ERASE
@ 12,35 SAY "One moment please..."
RETURN
*
* BRANCH BACK TO THE PROCEDURE MENU.PRG WHICH CONTAINS THE MAIN MENU
*
************************************************************************ END OF PROCEDURE : DELETION.PRG************************************************************************
NAME OF THE PROGRAM: YANK.PRG

PROCEDURE WRITTEN BY: MOHAN G. SINGH

DATE WRITTEN: 12/20/1984

OBJECTIVE OF THE PROGRAM:

* This program recalls a deleted record. Many a times the placement center wants to hide a record from the student to cover certain uncertainties. When the situation is definite, the placement center wants to display the hidden records to the students for signing up purposes. In such a case, this procedure is useful.

```
* SET TALK OFF
* SET DELETED OFF
* INCLUDE THE DELETED RECORD IN PROCESSING.
* DO WHILE T
* ERASE
@ 10,10 SAY "All the deleted records have a '*' beside the name of"
@ 12,10 SAY "the company. Select the correct number for yanking the"
@ 14,10 SAY "deleted record."
@ 24,55 SAY "Press Return to Continue"
* SET CONSOLE OFF
* WAIT
* SET CONSOLE ON
* ERASE
? 'NUMBER COMPANY DATE DAY CONCENTRATION'
? '--------------------------------------------------------'
* DISPLAY ALL COMPANY, COMDATE,DAY,CON
* DISPLAY THE NAME OF THE COMPANY, INTERVIEW DATE, DAY AND CONCENTRATION
?
?
? 'To select a company type the corresponding number and press Return'
?
? 'To sign off enter the number 0 and press Return'
?
INPUT * Enter the number here * TO YANSEL
IF YANSEL=0
ERASE
@ 12,35 SAY "One moment please..."
RETURN
* BRANCH TO THE PROCEDURE MENU.PRG
ENDIF
GOTO YANSEL
* GOTO THE CORRECT RECORD
ERASE
@ 10,10 SAY "The Company You Wish to Recall is "
```
DISPLAY OFF COMPANY, COMPDAT, DAY
?
INPUT "Answer Y(es or N(o) " TO MARQUE
IF .NOT. MARQUE
ERASE
LOOP
ENDIF
RECALL
ERASE
@10,10 SAY "Do you wish to recall one more company ?"
?
INPUT "Answer Y(es or N(o) " TO MAR
IF MAR
ERASE
LOOP
* BRANCH TO THE BEGINNING OF THE PROGRAM
ENDIF
ERASE
@12,35 SAY "One moment please..."
RETURN
*
* BRANCH TO THE PROCEDURE MENU.PRG WHICH CONTAINS THE MAIN MENU
*
*************************************************************************
END OF THE PROCEDURE : YANK.PRG *******************************************
**************************************************************************
**OBJEJECTIVE OF THE PROCEDURE:**

* TO EDIT FACI APC SCHEDULES<br>TAJK INTE RECQ SET SET DEHHI ERASE  

*ANY RECORD IN THE DATABASE THIS PROCEDURE CAN BE USED. USING THIS  
FACILITY ANY INFORMATION CONTAINED IN ANY RECORD CAN BE ALTERED. THIS IS  
A POWERFUL AND USEFUL UTILITY PROGRAM. WHENEVER STUDENTS WANT CHANGE THEIR  
SCHEDULES OR ALTER THEIR INTERVIEW TIMINGS OR A COMPANY WISHES TO CHANGE ITS  
INTERVIEW DATE OR INTERVIEW TIMINGS OR FOR THAT MATTER ANY CHANGE IN THE  
RECORD CAN BEEN CHANGED EASILY USING THIS PROCEDURE.  

SET TALK OFF  
SET DELETED OFF  
DO WHILE T  
ERASE  
* DISPLAY THE COMPANY, NUMBER, DATE, DAY AND CONCENTRATION IN THE FOLLOWING  
* FORMAT.  
?"NUMBER COMPANY DATE DAY CONCENTRATION"  
?"------------------------------------------------------------------"  
DISPLAY ALL COMPANY,COMPDATE,DAY,CON  
?  
? To select a Company type the corresponding number and press Return'  
? To Sign off enter the number 0 and press Return'  
?  
INPUT " Please enter the number here " TO RESEL  
IFTHEUSERENTEROHERE BRANCHTOTHEPROCEDUREMENU.PRG  
ERASE  
RETURN  
ENDIF  
GOTO RESEL  
* GOTO THE CORRECT RECORD.  
ERASE  
* THE FOLLOWING IS THE SCREEN APPEARANCE  
? TO CORRECT ANY MISTAKE, OVERTYPE ON THE WRONG ONE AND PRESS RETURN.'  
? IF THERE IS NOTHING TO BE CHANGED IN AN ENTRY, PRESS RETURN'  
@ 4,1 SAY "Name of the Company :"  
@ 4,22 GET COMPANY  
@ 4,50 SAY "Concentr :"  
@ 4,60 GET CON  
@ 5,1 SAY "Date :"  
@ 5,7 GET COMPDATE  
@ 5,30 SAY "Day :"
@5,35 GET DAY
@5,50 SAY "ROOM #:"
@5,59 GET ROOM
@7,1 GET SLOT1
@8,1 GET SLOT2
@9,1 GET SLOT3
@10,1 GET SLOT4
@11,1 GET SLOT5
@12,1 GET SLOT6
@13,1 GET SLOT7
@14,1 GET SLOT8
@15,1 GET SLOT9
@16,1 GET SLOT10
@17,1 GET SLOT11
@18,1 GET SLOT12
@19,1 GET SLOT13
* READ THE CONTENTS OF THE FIRST 18 FIELDS AND DISPLAY THEM ON THE SCREEN.
READ ERASE
* OVERFLOW LIST
@3,1 GET OF1
@5,1 GET OF2
@7,1 GET OF3
@9,1 GET OF4
@11,1 GET OF5
@13,1 GET OF6
@15,1 GET OF7
* READ THE DATA DIRECTLY FROM THE FIELDS.
READ ERASE
@10,10 SAY "Do you wish to edit one more company?"
?
? INPUT "Answer Y(es or N(o " TO THERESA
IF THERESA
* BRANCH BACK TO THE BEGINNING OF THE PROGRAM
LOOP ENDIF ERASE
@12,35 SAY "One moment please..."
RETURN
* BRANCH TO THE PROCEDURE MENU.PRG
*
******************************************************************** END OF THE PROCEDURE : EDIT.PRG *********************************************************************************
************************************************************************************
*
* NAME OF THE PROCEDURE : REPSCREE.PRG
*
************************************************************************************
*
* THIS PROCEDURE WRITTEN BY : MOHAN G. SINGH
*
* DATE PROCEDURE WRITTEN : 12/20/1984
*
* OBJECTIVE OF THE PROCEDURE :
*
* THIS PROCEDURE DISPLAYS ALL THE COMPANY NAMES, THE DATES OF INTERVIEW
* THE DAY OF INTERVIEW, CONCENTRATION THE COMPANY IS LOOKING, ON THE
* SCREEN.
*
SET TALK OFF
SET DELETED OFF
* SET THE DELETED RECORDS FROM NOT BEING PROCESSED
DO WHILE T
  ERASE
  ?'NUMBER COMPANY DATE DAY CONCENTRATION'
  ?'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-'-....
? TIME NAME OF STUDENT CONCENTRATION DATE OF GRAD

* DISPLAYS THE CONTENTS OF THE 13 FIELDS
DISPLAY OFF SLOT1
DISPLAY OFF SLOT2
DISPLAY OFF SLOT3
DISPLAY OFF SLOT4
DISPLAY OFF SLOT5
DISPLAY OFF SLOT6
DISPLAY OFF SLOT7
DISPLAY OFF SLOT8
DISPLAY OFF SLOT9
DISPLAY OFF SLOT10
DISPLAY OFF SLOT11
DISPLAY OFF SLOT12
DISPLAY OFF SLOT13
@ 24,55 SAY "Press Return to Continue"
SET CONSOLE OFF
WAIT
SET CONSOLE ON
ERASE
* DISPLAYS THE CONTENTS OF THE OVERFLOW LIST
OVERFLOW LIST
**************

DISPLAY OFF OF 1

DISPLAY OFF OF 2

DISPLAY OFF OF 3

DISPLAY OFF OF 4

DISPLAY OFF OF 5

DISPLAY OFF OF 6

DISPLAY OFF OF 7

@ 24,55 SAY "Press Return to Continue"
SET CONSOLE OFF
WAIT
SET CONSOLE ON
ERASE
@ 12,10 SAY "Do You Wish to See One More Company?"

INPUT "Answer Y(es) or N(o)" TO VANESSA
* ACCEPT THE ANSWER
IF VANESSA
LOOP
* BRANCH TO THE BEGINNING OF THE PROCEDURE
ENDIF
ERASE
* FROM HERE THE PROGRAM BRANCHES TO THE PROCEDURE : MRNU.PRG
@ 12,35 SAY "One moment please..."
RETURN
************************************************************************ END OF THE PROCEDURE : REPSCRE.PRG **************************************************************************
******************************************************************************************************************************************************
NAME OF THE PROCEDURE : STATS.PRG

PROCEDURE WRITTEN BY : MOHAN G. SINGH

DATE WRITTEN : 12/20/1984

OBJECTIVE OF THE PROCEDURE :

THIS PROCEDURE ASKS THE BEGINNING AND THE ENDING DATES FROM THE USER. THEN THE LIST OF COMPANIES INTERVIEWING IN THE RANGE OF THESE DATES ARE PRINTED. THIS PRINT OUT SHOULD BE PREPARED BEFORE THE SIGNUP PROCESS CAN BEGIN. BECAUSE THE STUDENTS CAN GET THE COMPANY NUMBER FROM THIS LIST ONLY.

SET TALK OFF
SET DELETED ON
DO WHILE T
ERASE
@ 13,10 SAY "YOU WILL GET A PRINT OUT OF THE LIST OF COMPANIES"
STORE " " TO DIL
STORE " " TO GIL
@ 15,10 SAY "ENTER THE BEGINNING DATE " GET DIL PICTURE "99/99/99"
* THE FORMAT OF THE BEGINNING DATE IS AS ABOVE
@ 18,10 SAY "ENTER THE ENDING DATE " GET GIL PICTURE "99/99/99"
* THE FORMAT OF THE ENDING DATE IS AS ABOVE
READ
* READ THE VARIABLES
ERASE
SET PRINT ON
SET MARGIN TO 0
* SET THE MARGIN TO 0 BEFORE PRINTING
ATLANTA UNIVERSITY PLACEMENT CENTER

NUMBER COMPANY DATE DAY CONCENTRATION

SET PRINT OFF
GOTO TOP
* GOTO TO THE TOP OF THE DATABASE FILE
DO WHILE .NOT. EOF
* DO THE FOLLOWING TILL THE END OF FILE IS REACHED
IF COMPDATE >= DIL .AND. COMPDATE <= GIL
* THIS IS THE RECORD SELECTION RULE
SET PRINT ON
DISPLAY COMPANY, COMPDATE, DAY, CON
ENDIF
SKIP
* GOTO THE NEXT RECORD
ENDDO
EJECT
* DO A FORM FEED AFTER PRINTING OF ONE RECORD
SET PRINT OFF
ERASE
@ 15,35 SAY "One moment please..."
RETURN
* THE PROGRAM BRANCHES TO THE PROCEDURE MENU.PRG FROM HERE
ENDDO
*
************************ END OF THE PROCEDURE : STATS.PRG ****************************
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BIBLIOGRAPHY
