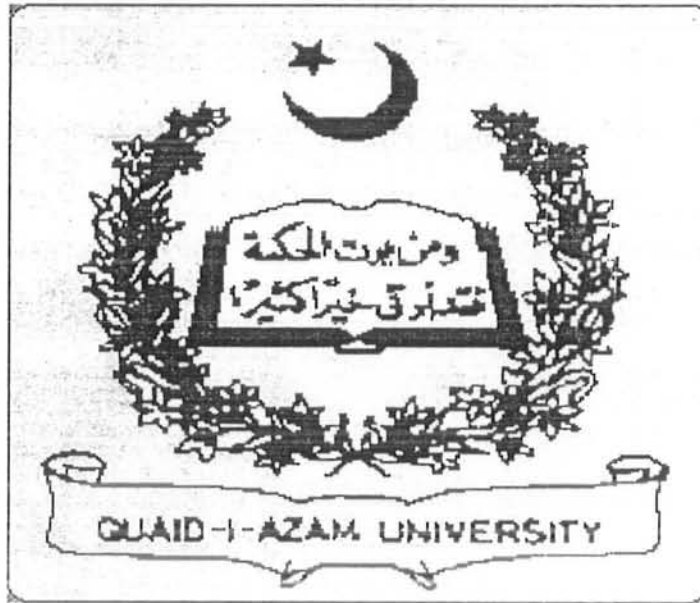


COMPUTERIZATION OF SCHOOL
INFORMATION SYSTEM

FOR
F.G BOYS SECONDARY SCHOOL
MARRIR HASSAN RAWALPINDI



BY
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A DISSERTATION SUBMITTED TO
QUAID-E-AZAM UNIVERSITY ISLAMABAD
FOR
THE AWARD OF POST GRADUATE DIPLOMA
IN COMPUTER SCIENCE.
COMPUTER CENTRE
QUAID-E-AZAM UNIVERSITY
ISLAMABAD.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

DEDICATION

DEDICATED TO OUR RESPECTABLE
PARENTS
AND
TEACHERS

FINAL APPROVAL

IT IS CERTIFIED THAT WE HAVE READ
THE DISSERTATION CAREFULLY SUBMITTED
BY
MUHAMMAD AKHTAR
AND
MUHAMMAD IMRAN

WE HAVE FOUND IT UPTO THE STANDARD TO WARRAD ITS
ACCEPTANCE BY QUAID-E-AZAM UNIVERSITY ISLAMABAD
FOR THE AWARD OF
POST GRADUATE DIPLOMA IN COMPUTER SCIENCE.

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ISLAMABAD

PROJECT BRIEF

PROJECT TITLE: SCHOOL INFORMATION SYSTEM

OBJECTIVE: TO COMPUTERIZE THE EXISTING
ADMISSION, EXAMINATION,
LIBRARY AND DUES SYSTEM.

UNDERTAKEN BY: MUHAMMAD AKHTAR
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STARTING MONTH. MAY 2003.
COMPLETION MONTH. JULY 2003.
SOFTWARE USED ORACLE 7
FOR WINDOW 95&FORM 4.5
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MUHAMMAD AKHTAR

AND

MUHAMMAD IMRAN.

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CHAPTER NO.1

SYSTEM ANALYSIS

1.1 INTRODUCTION OF THE INSTITUTION

This institution is situated in very important place in Rawalpindi Cantt. It is situated at opposite the Station Headquarters on Rashid Minhas road Marrir Hassan which is the popular place of Rawalpindi Cantt. This institution was established in 1958 as C.B. Middle School and become high in 1987. In 1977 Army took the charge of these Institutions. This institution is one of them, named as Federal Government BoyS Secondary School Marrir Hassan. This institution contains Class-1 to 10th. Only science subjects are taught in high classes.

This institution is one popular institute of Rawalpindi Cantt. There are about 35 staff members and 1000 students.

Main objectives of this institution are: -

- a. Provide multi-fact education to student.
- b. Provide a sound environment to the students to derive education and information and essay ways.
- c. Make good Pakistani citizen.
- d. Build sound character and confident personality.

This institution gave manpower in every field to our nation. It also created a leading leadership to our sweet country

(Pakistan). This institute runs under the Federal Government Education Institutions Cantt Garrison Directorate.

1.2 PROBLEM DEFINITION

This dissertation describes the design of a computerized School Information System (School Environment) for the F.G Boys secondary School, Marrir Hassan Rawalpindi Cantt. The basic purpose of this work is to convert the present manual admission; dues system, examination system and expenditures system into computerized one. It will improve results compilation and also provide quick response with reports and queries. This study has been conducted keeping in view various problems faced by the student and school staff and huge amount of data handling due to the increasing number of candidates for admission to the school.

Due to these facts that computer has rendered immense help and made tremendous contribution in the every field, a computerized examination, student due and admission system is designed. The implementation of this system will reduce the manual operation, and provide accurate results and efficient data handling.

In order to remove these difficulties, the objectives of this work were:-

- a. To study the problems which are faced by the staff
- b. To find out the drawbacks in the existing system
- c. To propose steps in order to overcome the problem and difficulties
- d. To design an efficient Student Information system

1.3 Needs for Computerization

There is a need that educational institutes should have a well to help the management in running. These institutions work successfully and efficiently. It is expected that this system will provide the following: -

- a. Fast accurate, efficient and reliable information to enable the management to make right decision at right time.
- b. Security from unauthorized persons by the help of user name, passwords, so that no one other than the authorized persons can insert, update, delete or retrieve any information.
- c. Register paper work and maintain disc files, which are reusable, this reducing the amount of stationery charges to a considerable extent, would replace paper files.
- d. Insertion and deletion of records in the files of database would become easy and acceptable.

1.4 School Management Activities

A manual system for school management involves activities relating to student admission, dues system, Debates, Sports etc. following are the procedures which perform these activities: -

a) **Student Admission Procedure**

When the academic year starts, then from our Junior Branch Schools, students bring their school leaving certificate and conduct to the Admission and Examination Cell.

This cell issued an admission form and then received all dues from the students and allotted a unique admission no and class.

If from another Institute's student wants to take admission.

He has to apply 10 Corps and obtain approval for test or admission. If he passed the test, then he is able to get admission in this institution.

b) **Students Monitoring Procedure**

All the important records of every student is maintained and updated. When an academic year was ended. The student's performance is evaluated. This is done in the Examination cell where the date sheet is announced; allocation of rooms and invigilators, examiners and preparation of results takes place.

1.4 Drawbacks in the Existing System

I am a teacher of this institute, so I know the drawbacks of this manual system. So in the existing system, there is no coordination between the dues section, examination section, admission section and other student's activity section. So the information is placed at different places causing duplication of data. Due to this many problems takes placed.

As several sections are working simultaneously, if a certain section needs a particular information. It will have to request the other sections to provide the required information. If a student is absent for a very long time then examinations section will have to be informed for necessary action.

Since decisions may need complete information, if the head of the institute wants to take an immediate decision on a particular matter then all the information is to be searched and then a decision is made on the basis of the available information.

This takes a lot of time. This method of information collection is full of errors and these errors may lead to wrong decisions.

No scientific methods are applied to collect the required information. It is very difficult to compile the gigantic amount of information about the students, which are written in registers or in file folders. They will be placed in to the files cabinets and file cabinets will be placed into different rooms, making the searching of particular information difficult.

As the information processing is done manually. It takes a lot of time and concentration to get the required information, but the chance of errors remains. For example preparation of student's examination result, first the result of each subject

And each class is made then result card of each student is compiled and then the result of the whole institution is prepared.

As several steps involved with several persons engaged in it. Causing increase chance of errors. When all the stages of result preparation are performed then several different types of reports concerning to students, teachers, classes, subjects and the institution are prepared. As all this is done manually so these are not error free.

When particular information about a particular person is to be inserted, updates deleted or retrieve; active some search is to be performed. First to locate that particular record location and then perform the required operations for example updating which causes overwriting, that looks untidy.

To keep all the information of the persons involved in this system, the institution required huge amount of stationery, furniture and sufficient number of employees. So much amounts will be spent on all these.

It is difficult to maintain the privacy and security of information because paper files may be easily accessed by the unauthorized person or may be destroyed or stolen.

Thus a computerizedis proposed ' provide accurate reliable and timely information to the management.

CHAPTER No. 2

SYSTEM DESIGNING PHASE

2.1 Introduction to the Proposed System

Every new system, whether manual or computerized, that replaces the previous system, bring about some changes. These changes may be procedures or in documents. In this case manual system of admission and examination, F.G Boys Secondary School Marris Hassan Rawalpindi Cantt propose to be changed into computerized systems. The proposed system is mainly related to the redesigning of computerized completion of results, record keeping and retrieval of student data, files creation and maintaining of the records.

In order to understand the problems and needs of the school administration for examination, admission, attendance records and they're other activities records and their problems and behaviour.

2.2 Objectives of the proposed system

The basic approach in finding the objectives of the proposed system is to start with the existing information structure and find the deficiencies and problems. Keeping these things in mind we tried to find measures for their removal.

The proposed system has been designed after conducting a detailed study of the present system.

Having meeting and asking questions from the concerned sections of the school collected the necessary information and data. From previous chapter we came to know the deficiencies and problems faced in the existing system by the users. Solutions to these problems are the main objectives of the proposed system. This following are selected as main objectives of the proposed system.

a. *Efficiency*

Efficiency is the degree to which we minimize utilization of resources for achieving an object. The proposed system is more efficient than the existing manual system.

b. *Data security*

The data required for decision-making is highly sensitive and valuable, therefore, reliability of the propose system is secured by giving a regular and guaranteed service to the user.

c. *Time Factor*

As computer has very high speed than manual system, therefore queries and reports can be taken promptly than present system.

f. *Accuracy*

The system will provide accurate and errors and omission free information, needed for the decision-making. It will ensure efficient and accurate record keeping.

g. *Flexibility*

The algebra of information processing system is liable to change in terms of objectives, information or processes. The proposed Computer system would be sufficiently flexible to cope with such changes.

h. *User-friendly*

User will communicate with the system through simple conversations.

No specialized computer staff will be required.

I. *Reliability*

The new system is more reliable than the manual one due to its accuracy, security and fewer periods of inactivity due to communication failure.

j. *Economical and Profitable*

To implement this system only a data entry operator will be employed. A computer with a printer, floppy discs and printing papers are needed, which will be more economical than the existing system. Also it will be attractive for public, because of its exceptional features.

k. *Efficient Data Collection and storage*

Scientific methods are applied for the collection-required information. The format of forms is readable and flow of information is logical. Screens use the format of the data collection forms and sheets. So data entry will become very easy and efficient. Floppy discs and hard discs will be use to store data which are safe, reliable and reusable.

1. QUICK INFORMATION PROCESSING AND REPORT GENERATION:

As information processing is electronic, it takes a little time to get the required information also the chances of errors are reduced to a great extent. For example the preparation of students examination results, which is for more fast and errors free than the manual system and their retrieval is also very prompt, like the preparation of marks sheets.

Also if we want to see the result of a specific student, we have to just enter the roll number of the student along with its class and session, you will see the performance of that student.

When particular information about a particular person is to be inserted, updated, deleted or retrieved, just enter the record key, the record will be displayed and will be ready to perform any operation.

Thus the proposed computerizedwill accurate, reliable and provide timely information for the management staff of the educational institutes.

2.3 *The proposed System*

This system covers only those aspects, which directly or indirectly relates to the students. The proposed system has been designed after conducting a detailed study of the present system. The proposed system is developed in a more powerful software tool, which is more efficient, reliable and economical than the present.

2.4 Software selection

The choice of software is very important and depends upon the problems, which the current system is facing. This is because of various facilities provided by different languages and packages. After a lot of considerations *ORACLE DEVELOPER 2000* are proposed to be quite appropriate *ORACLE DATABASE* is a collection of tables to be treated as a unit. *ORACLE TABLES* consist of operating system files physically. There are database files and “Redo Log File” Logically the database files contain a set of dictionary and user tables whereas redo log files contains data recovery. There is also one or more control table that identifies and describes the rest of database.

2.5 Oracle PL/SQL Programming

PL/SQL stands for procedural language/structured query language. SQL is flexible efficient language with features designed to manipulate and examine relational data PL/SQL extends SQL by adding constructs found in other procedural language such as variable and types control structure and loops procedures and functions.

2.6 Oracle Forms

Oracle forms are a major product within the developer 2000. Oracle forms enable one to quickly and promptly develop form-based applications for presenting and manipulation data in a variety of ways.

Oracle forms applications let user to insert update delete and query data using a variety of interface items. Control forms across several windows and data base transaction.

Access the facilities of oracle graphics and OLE2 applications directly.

2.6 Oracle Reports



Oracle report is a lost for developing displaying and printing production quality reports. It is designed for application developers who are familiar with SQL and PL/SQL.

Major a feature of oracle reports are data model and layout editors in which one can create the structure and format the report. Packages function for creating computation Conditional-printing capabilities.

2.7 Hardware Selection

In this system the minimum requirements for the hardware and operating system are IBM PC or any IBM compatible computer with a minimum of 16MB RAM, a 3.5-Inch diskette drive and a hard disk with at least 1.2 GB of memory. A colour SVGA monitors, Printer with 132-column paper width Window version 98.

CHAPTER No.3

DESIGNING OF DATABASE

3.1 Designing of Proposed System

The system has been designed keeping in mind. The objectives which are setting up during proposing the system. During the designing of this particular system the following four phases were considered:-

- Input form designing
- * Code designing
- * Output designing
- File designing

3.2 Input Form designing

Input forms are designed to collect the sources data needed for the database. An important characteristic of this system is that the forms present a user-friendly interface. Data can be retrieved, displayed and edited after each record entry using the same display. The following input forms are used to input data: -

1. Student Record Form

This form is used as input form for personal information about the student.

2. Dues From.

This form is used as input form for collection of dues from the students.

3. Teacher Record Form.

This form is used for the record of teacher personal record.

4. Date –Sheet Forms

This form is used to save the record of the date sheet in the school examination system.

5. Date –Sheet-Detail Forms

In this form the information of date-sheet-detail of student.

6. Teacher-Duty Forms

In this form the information of teacher duty during examination.

7. Result Sheet Forms

This form contains information about the result of students.

8. Punishment –Record Forms

This forms contains the information about the punishment of student.

9. Award-Record Forms

This form contains the information about the award record of students during the whole year of studies.

10. Time Table Forms

This forms used to record the timetable of the classes and teachers.

11. Inchar list forms

This form contains the record of class teacher in char.

12. Book Record Forms

This form contains the record of books.

13. Issue Return Procedure Forms

This form is used to handle the issue and return procedure of books

from library. **14. General Fine Form**

This form is used to record of general fine.

15. Expenditure Record form

This form is used to record the expenditure in school.

16. Class Record Forms

In this form the information of different types of class and class teacher.

17. Subject Record Form

In this form the information of different types of subject and their remarks.

18. Category Form

In this form the information of different types of Categories of the student.

19. Sport Types Form

In this form the information of different types of games.

20. Occupation Form

This form is used to record the occupation of the parent.

21. Extra Activity Form

In this form the information about extra activity of students.

22. Section Form

In this form the information about section of the class.

23. Dues Type Form

In this form the information about dues type of the students.

24. Room Record Form

This form contains information about room record of school.

25. Punishment Type Form

This form contains information about punishment record of students.

26. Punishment committee Form

This form contains information about the punishment committee members.

27. Discipline committee Form

This form contains information about the discipline committee members.

28. Period Form

This form contains information about period record that used in timetable.

29. Equipment Record Form

This form contains information about equipments, which were present in the school.

30. Repair Maintenance Form

This form contains information about repair maintenance record.

3.3 **Code Designing****Purpose of the Output**

A code can be defined as an abbreviation of the actual data, which occupies very little space. When data is too large to be handled and to avoid entering incorrect

information codes are used to replace actual data. It can be combination of digits, codes. When we are accessing information is displayed on the output devices.

Codes have been used in this system for various fields such as scholarship, day head subject code etc. These are all numeric values.

3.4 Output Designing

For any system to be successfully implemented, it is necessary that its output should be able to reflect all aspects and useful features of the system. Thus outputs are designed keeping in view the following aspects.

Provide exact and accurate information.

Easy to understand

In case of School Information System the developed system is capable of generating the following reports: -

- Student Information
- Dues details
- Promotion file
- Transfer file
- Repair/ maintenance register
- Teacher information

CHAPTERNO.4

SOFTWAREDEVELOPMEN

4.1 **Introduction**

Having designing the system, the next step is 's development involves the realization of the actual system. In development phase system is built to meet the proposed and designed specification. This development phase focuses on how this realization is done. During development, software developer needs to describe how.

Date structures and architectures are to be designed.

Procedural details are to be implemented the design will be translated into programming language and testing will be performed. The system-developed activities include preparation of plan to make the system operational. During the implementation phase working personnel are trained and preparation is made for changing over from a project environment to an operational environment.

4.2 **Development Phase**

The methods applied during the S/W, development phase very according to the software paradigm applied. However, the most important steps are: -

1. Selecting the development approach. Implementing the data base design. Choosing the appropriate software development tool.
1. Developing application to store and retrieve information from the database.
1. Testing of developed application with sample data for debugging.
1. Producing only desired output in a desired way.

4.3 Development Approach

There are several development approaches used in developing systems nowadays. Some the very famous are.

4.4 Top Down approach

It is based on the principle of coding the high level modules first and leaving the lower level modules to be filled in later lower module is only a shell with an entry and exit in higher module references are made to lower modules as YY, they are coded and available but in fact result will be an empty action.

Advantages

It tests the most important modules first. It allows the user to see preliminary version of the system.

Once the higher modules are coded and tested a fees level modules can be easily coded and results produced.

Top down coding allow problems to be handled more easily i.e. if the system is going to be late then at least there is something to show the user.

4.5 Bottom Up Approach

It begins with some complete lower level modules while the higher-level modules are merely skeletons that call the lower to modules.

ADVANTAGES

Lower level modules are critical in some sense, perhaps involving calculations and it may be important to get these working soon. Lower level modules may be assigned earlier in order to keep programmers busy.

4.6 Inside Out Approach

Here the abstractions are focused on some central set of concepts that are most evident making it a special kind of bottom up approach. Modelling from inside then spreads outwards by considering new concepts in the vicinity of the existing ones.

4.7 Mixed Approach

Instead of following any particular approach, the requirements are portioned while using a top down approach and part of the scheme is designed for each partition using a bottom up approach various scheme parts are then combined out of all these our development approach is the bottom up support due to the following reasons: -

- Each and every programme can be tested separately.
- Modularity can be achieved.
- Interface design.
- Database design.

Linkage to a main menu can be done very easily after the development satisfaction of the working of each separate module.

4.8 Software Selection

Software selection was a major issue faced during the development of this system. Before user's satisfaction developer's satisfaction is must in the context of the working environment so that he should be able to work efficiently, enjoying all the facilities offered by his selected environment for his quality product.

After a careful observation, analysis of the different environments and software present for database development. It was decided that this Development would be done in oracle using windows 98 environment. Developer 2000-form designer is used for interface designing and report writing.

Oracle has following advantages provided very strong online help.

It supports client / server applications. Using latest software development technique. It provides maximum accurate of data. It can work more then 75 operating system.

It uses special file operating technique.

4.9 Designing Interface

A paper prototype is always helpful in developing an ideal user interface, because it is somehow practical and developer can discuss it with the user, so a paper prototype

of all the input screens was made and discussed with the user.

This discussion begin with the colours of the input screen and covered each and every object on the screen plus its functionality and proper responsibility etc. it is

always difficult to meet all the user's requirement in a way the user likes. Anyhow we have been able to get a satisfactory set of screens on the paper before actual use interface in developer 2002.

Developer 2000 provides a very sophisticated interface designer called the form designer.

4.10 Developer 2000 Forms Designer

Developer 2000 form designer select due to the following reasons: -

- Provides an outstanding interface to its use as compared to its contemporary database developed software.
- It is easy to use. It contains a list of all possible objects.

Blocks

The base building blocks for form designers are blocks. A form may contain one or more blocks. Each block may be associated with a base table or may be non-base table. Each block is used to perform a specific task. There may be more than one blocks associated with a form.

Base Table

Base table is a data base table on which it is based. A block associated with a base table contains to fields of the base table.

Master Detail Relationship

Master detail relationship exists between blocks in case presence of more than one blocks in a form. A master detail relationship is created between blocks of a form when there exist records in the detail block corresponding to each record of master block or there is a primary to foreign key relationship between two fields.

Layout Editor

It is a full screen editor in which one can quickly move fields around. Add boxes and other text or changing the text displayed for a field.

Triggers

Triggers are a set of processing commands. All triggers are written in PL/SQL, which is a procedural language integrated with an oracle database.

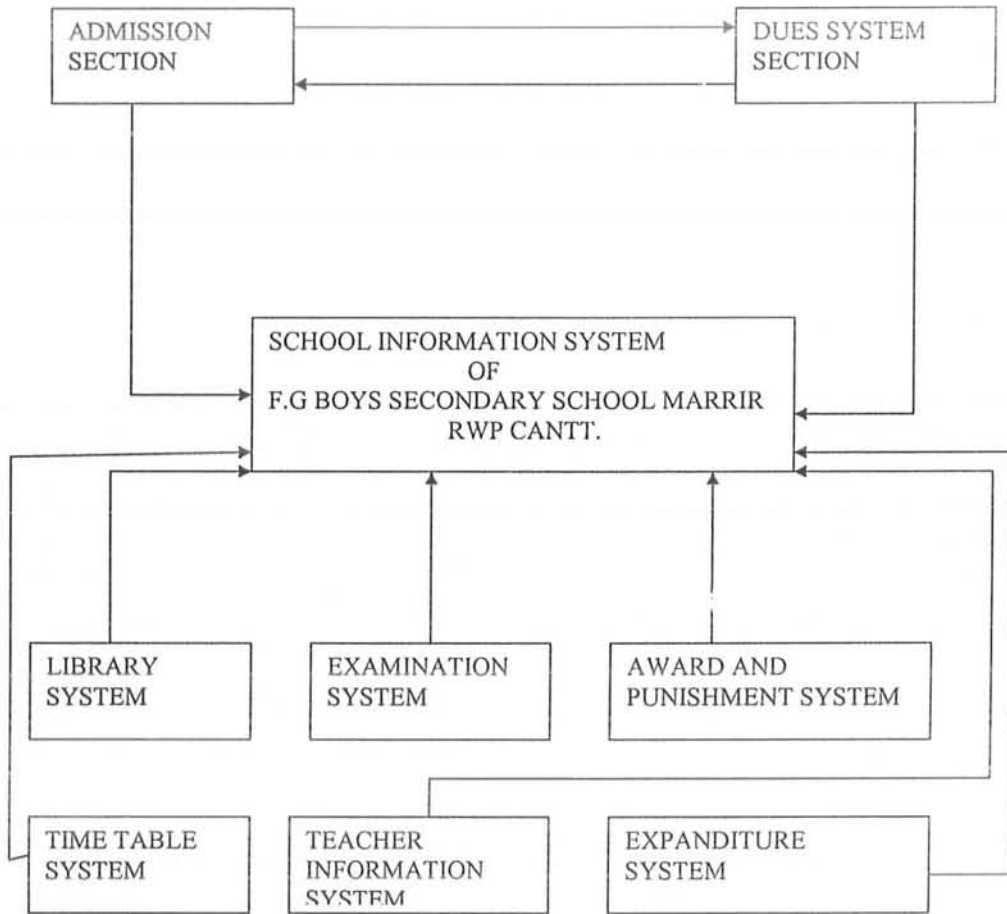
Triggers are associated with event points in forms processing. An event is an action, which occurs when a form is executed. They can be defined on a field or block or a form level. An example of an event is the operator pressing the key (COMM IT). When this even occurs its associated trigger i.e. KEY COMM IT fires executing the commands it contains.

4.11 Form Designing

Form design let one promptly develop form base applications for entering, querying updating, and deleting data. Here, one specifics his application and the form designer combine the instruction with information in the ORACLE data dictionary (which is asset of table).

CHAPTER NO.5

CONTEXT DIAGRAM



TABLES WITH DETAIL

1. TABLE CLASS

Name	KEYS	Status	Data-Type
CLASS_ID DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (20)

2. TABLE OCCUPTION

Name	KEYS	Status	Data-Type
OCCU_CD DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (20)

3. TABLE SPORT

Name	KEYS	Status	Data-Type
SP_CD DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (20)

4. TABLE EXTRA_ACTIVITY

Name	KEYS	Status	Data-Type
EX_AC_CD DETAIL		NOT NULL	NUMBER (2) CHAR (20)

5. TABLE STUDENT

Name	KEYS	Status	Data-Type
REG_NO	P.K	NOT NULL	NUMBER (10)
STUDENT_NAME			CHAR (20)
F-NAME			CHAR (20)
D-O-B			DATE
SEX			CHAR (6)
RELGION			CHAR (20)
CLASS	F.K		NUMBER (2)
PRESENT_ADDRESS			CHAR (60)
PERMANT_ADDRESS			CHAR (60)
PREVIOUS_SCHOOL			CHAR (50)
OCCU_CD	F.K		NUMBER (2)
SPORT_CD	F.K		NUMBER (2)
EXTRA_AC_CD	F.K		NUMBER (2)
F_INCOME			NUMBER (8)
KIN_SHIP			CHAR (3)
COURSE_OF_STUDY			CHAR (10)

6. TABLE ACADEMIC_QUALI

Name	KEYS	Status	Data-Type
ACAD_QUALI_CD DETAIL		NOT NULL	NUMBER (2) CHAR (10)

7. TABLE PROF_QUALI

Name	KEYS	Status	Data-Type
PROFESSIONAL_ID DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (10)

8. TABLE TEACHER

Name	KEYS	Status	Data-Type
TEACHER_ID	P.K	NOT NULL	NUMBER (10)
T_NAME			CHAR (20)
F_NAME			CHAR (20)
DESIGANATION_ID	F.K		NUMBER (2)
BPS			NUMBER (2)
ACAD_QUALI_CD	F.K		NUMBER (2)
PROFESSIONAL_ID	F.K		NUMBER (2)
REGLION			CHAR (20)
D_O_B			DATE
DATE_OF_APPOIN			DATE
DATE_OF_JOINING			DATE
N_I_C			CHAR (15)
DOMICILE			CHAR (20)
PROVANCE			CHAR (15)
ADDRESS			CHAR (60)
TEL_NO			CHAR (15)
REMARKS			CHAR (20)

9. TABLE DUTY_TYPE

Name	Keys	Status	Data-Type
DUTY_ID	P.K	NOT NULL	NUMBER (2)
DESCRIPTION			CHAR (20)

10. TABLE SECTION

Name	Keys	Status	Data-Type
SECTION_ID		NOT NULL	NUMBER (2)
DETAIL		CHAR (20)	

11. TABLE DUES_HEAD

Name	Keys	Status	Data-Type
DUES_CD		NOT NULL	NUMBER (2)
DETAIL			CHAR (20)

12. TABLE DUES

Name	Keys	Status	Data-Type
DS_NO	P.K	NOT NULL	NUMBER (8)
REG_NO	F.K		NUMBER (10)
DUES_CD	F.K		NUMBER (2)
AMT			NUMBER (8)
MONTH_ID	F.K		NUMBER (2)
CAT_CD	F.K		NUMBER (2)
PAY_DATE			DATE
REMARKS			CHAR (20)

13. TABLE CATAGORY

Name	Keys	Status	Data-Type
CAT_CD	P.K	NOT NULL	NUMBER (2)

14. TABLE NO DESIGATION

Name	Keys	Status	Data-Type
DESIGATION_CD DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (20)

15. TABLE SUBJECT

Name	Keys	Status	Data-Type
SUB_ID DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (15)

16. TABLE ROOM

Name	Keys	Status	Data-Type
ROOM_ID DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (15)

17. TABLE TEACHER_DUTY

Name	Keys	Status	Data-Type
DUTY_NO TEACHER_ID DUTY_ID ROOM_ID CLASS_ID	P.K F.K F.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (2) NUMBER (2)
SUB_ID STARTING_TIME	F.K		NUMBER (2) CHAR (6)
END_TIME DUTY_DATE TO_DATE REMARKS			CHAR (6) DATE DATE CHAR (20)

17. TABLE MAX_MARK

Name	Keys	Status	Data-Type
MS_NO DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (3)

18. TABLE RESULT_SHEET

Name	Keys	Status	Data-Type
RS_NO REG_NO TEACHER_ID CLASS_ID SECTION_ID SUB_ID OBT_MARKS MAX_MARKS REMARKS	P.K F.K F.K F.K F.K F.K F.K	NOT NULL	NUMBER (15) NUMBER (10) NUMBER (10) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (3) NUMBER (2) CHAR (20)

19. TABLE DAY

Name	Keys	Status	Data-Type
DAY_ID DETAIL	P.K	NOT NULL	NUMBER (2) CHAR (20)

20. TABLE TIME_TABLE

Name	Keys	Status	Data-Type
TS_NO TEACHER_ID PERIOD_ID SUB_ID CLASS_ID SECTION_ID STARTING_DAY END_DAY	P.K F.K F.K F.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (2)

21. TABLE INCHAR_LIST

Name	Keys	Status	Data-Type
INC_NO TEACHER_ID CLASS_ID SECTION_ID REMARKS	P.K F.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (2) CHAR (20)

22. TABLE PUNISHMENT

Name	Keys	Status	Data-Type
PUNISHMENT_NO REG_NO PUN_CD CLASS_ID SECTION_ID COMM_NO FINE_AMT PUN_DATE DESCRIPTION	P.K F.K F.K F.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (6) DATE CHAR (50)

23. TABLE PUNISHMENT_TYPE

Name	Keys	Status	Data-Type
PUN_CD DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

24. TABLE PUNISH_COMM

Name	Keys	Status	Data-Type
COMM_NO M1_NAME M2_NAME M3_NAME	P.K	NOT NULL	NUMBER (2) CHAR (15) CHAR (15) CHAR (15)

25. TABLE AWARD_TYPE

Name	Keys	Status	Data-Type
AWARD_CD DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

26. TABLE AWARD

Name	Keys	Status	Data-Type
AWARD_NO REG_NO AWARD_ID CLASS_ID SECTION_ID DESCL_COMM AWARD_DATE DESCRIPTION	P.K F.K F.K F.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (2) NUMBER (2) NUMBER (2) DATE CHAR (50)

27. TABLE DESCL_COMM

Name	Keys	Status	Data-Type
DE_COMM_NO M1_NAME M2_NAME M3_NAME	P.K	NOT NULL	NUMBER (2) CHAR (15) CHAR (15) CHAR (15)

28. TABLE FINE_TYPE

Name	Keys	Status	Data-Type
FINE_ID DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

29. TABLE GENERAL_FINE

Name	Keys	Status	Data-Type
FS_NO REG_NO FINE_ID AMT FINE_DATE DESCRIPTION	P.K F.K F.K	NOT NULL	NUMBER (5) NUMBER (10) NUMBER (2) NUMBER (3) DATE CHAR (20)

30. TABLE BOOK_RECORD

Name	Keys	Status	Data-Type
BOOK_NO BOOK_TITLE BOOK_SUBJECT AUTHOR PUBLISHER DATE_OF_PUBLISHER PRICE	P.K	NOT NULL	NUMBER (2) CHAR (20) CHAR (20) CHAR (30) CHAR (60) DATE NUMBER (5)

31. TABLE ISSUE_RETURN_PROC

Name	Keys	Status	Data-Type
S_NO	P.K	NOT NULL	NUMBER (5)
REG_NO	F.K		NUMBER (10)
TEACHER_ID	F.K		NUMBER (10)
CLASS_ID	F.K		NUMBER (2)
SECTION_ID	F.K		NUMBER (2)
BOOK_NO	F.K		NUMBER (6)
ISSUE_DATE			DATE
RETURN_DATE			DATE
DUE_DATE			DATE
REMARKS			CHAR (20)

32. TABLE DATE_SHEET

Name	Keys	Status	Data-Type
DATE_SHEET_ID	P.K	NOT NULL	NUMBER (5)
CLASS_ID	F.K		NUMBER (2)
STARTING_DATE			DATE
END_DATE			DATE
TEARM			CHAR (10)
SESSAN			CHAR (10)

33. TABLE DATE_SHEET_DETAIL

Name	Keys	Status	Data-Type
D_SHEET_NO	P.K	NOT NULL	NUMBER (5)
DATE_SHEET_ID	F.K		NUMBER (5)
CLASS_ID	F.K		NUMBER (2)
SUB_ID	F.K		NUMBER (2)
STARTING_TIME			CHAR (6)
END_TIME			CHAR (6)
PAPER_DATE			DATE
DAY_ID	F.K		NUMBER (2)
REMARKS			CHAR (20)

34. TABLE DAY

Name	Keys	Status	Data-Type
DAY_ID	P.K	NOT NULL	NUMBER (2)
DETAIL			CHAR (20)

35. TABLE BILL_TYPE

Name	Keys	Status	Data-Type
BILL_ID	P.K	NOT NULL	NUMBER (2)
DESCRIPTION			CHAR (20)

36. TABLE EQUIP_RECORD

Name	Keys	Status	Data-Type
EQ_NATURE_ID	P.K	NOT NULL	NUMBER (2)

37. TABLE REPAIR_RECORD

Name	Keys	Status	Data-Type
REPAIR_ID DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

38. TABLE REPA_MAIN_TYPE

Name	Keys	Status	Data-Type
RE_MAIN_ID DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

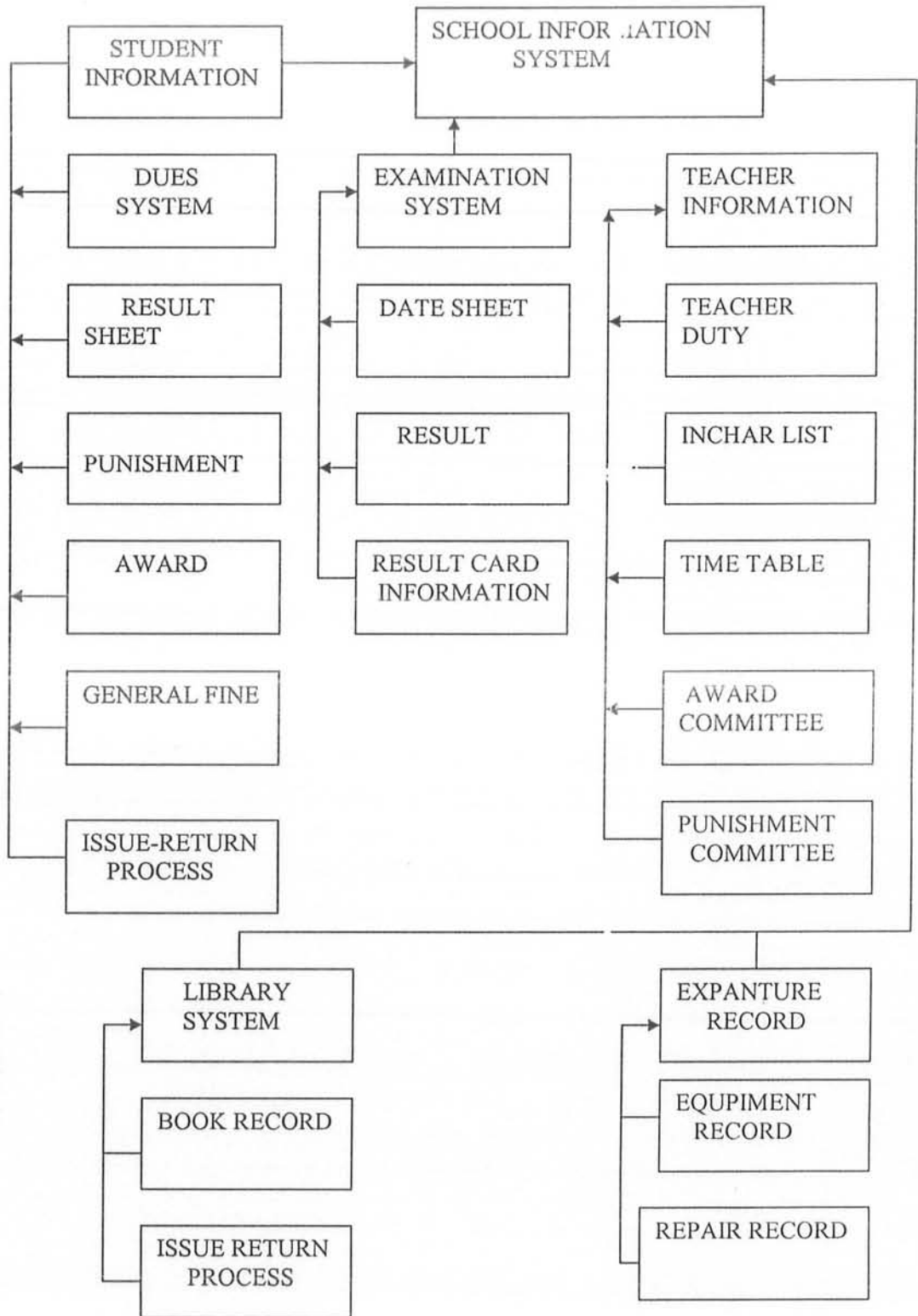
39. TABLE MONTH

Name	Keys	Status	Data-Type
MONTH_ID DESCRIPTION	P.K	NOT NULL	NUMBER (2) CHAR (20)

40. TABLE EXPANDITURE_RECORD

Name	Keys	Status	Data-Type
EX_RECORD_NO	P.K	NOT NULL	NUMBER (5)
RE_MAIN_ID	F.K		NUMBER (2)
BILL_ID	F.K		NUMBER (2)
EQ_NATURE	F.K		NUMBER (2)
REPAIR_ID	F.K		NUMBER (2)
AMT			NUMBER (6)
PAY_DATE			DATE
CHEQUE_NO			CHAR (20)
SANCTION_AUTHORITY			CHAR (20)

ERD OF THE SYSTEM



BAECHMANN DIAGRAM OF THE SYSTEM

1. STUDENT

REG_NO	STU_NAME	F-NAME	D-O-B	SEX	RELG	CLASS-ID	PR_ADD
--------	----------	--------	-------	-----	------	----------	--------

PE_ADD	PRE_SCH	OCCU_CD	SP_CD	EX_CD	F_INCOME	KIN_SHIP
--------	---------	---------	-------	-------	----------	----------

2. CIASS

CLASS-ID	DETAIL	OCC_CD	DETAIL
----------	--------	--------	--------

3. OCCUPTION

4. SPORT

SP_CD	DETAIL	EX_CD	DETAIL
-------	--------	-------	--------

5. EXTR-ACTIVITY

6. DUES

DS_NO	REG_NO	DUES_CD	AMT	CAT_CD	MONTH-ID	P. D
-------	--------	---------	-----	--------	----------	------

7. DUES-HEAD

DETAIL	DUES_CD	CAT_CD	DETAIL
--------	---------	--------	--------

8. CATEGORY

MONTH_ID	DETAIL
----------	--------

9. MONTH

10. TEACHER.

T-ID	T-NAME	F-NAME	DESG-ID	BPS	ACAD-Q-ID	PRO-Q-ID
------	--------	--------	---------	-----	-----------	----------

D-O-B	D-APP	D-JOIN	NIC	DOMIC	PROV	REGLI	ADDR
TELNO							

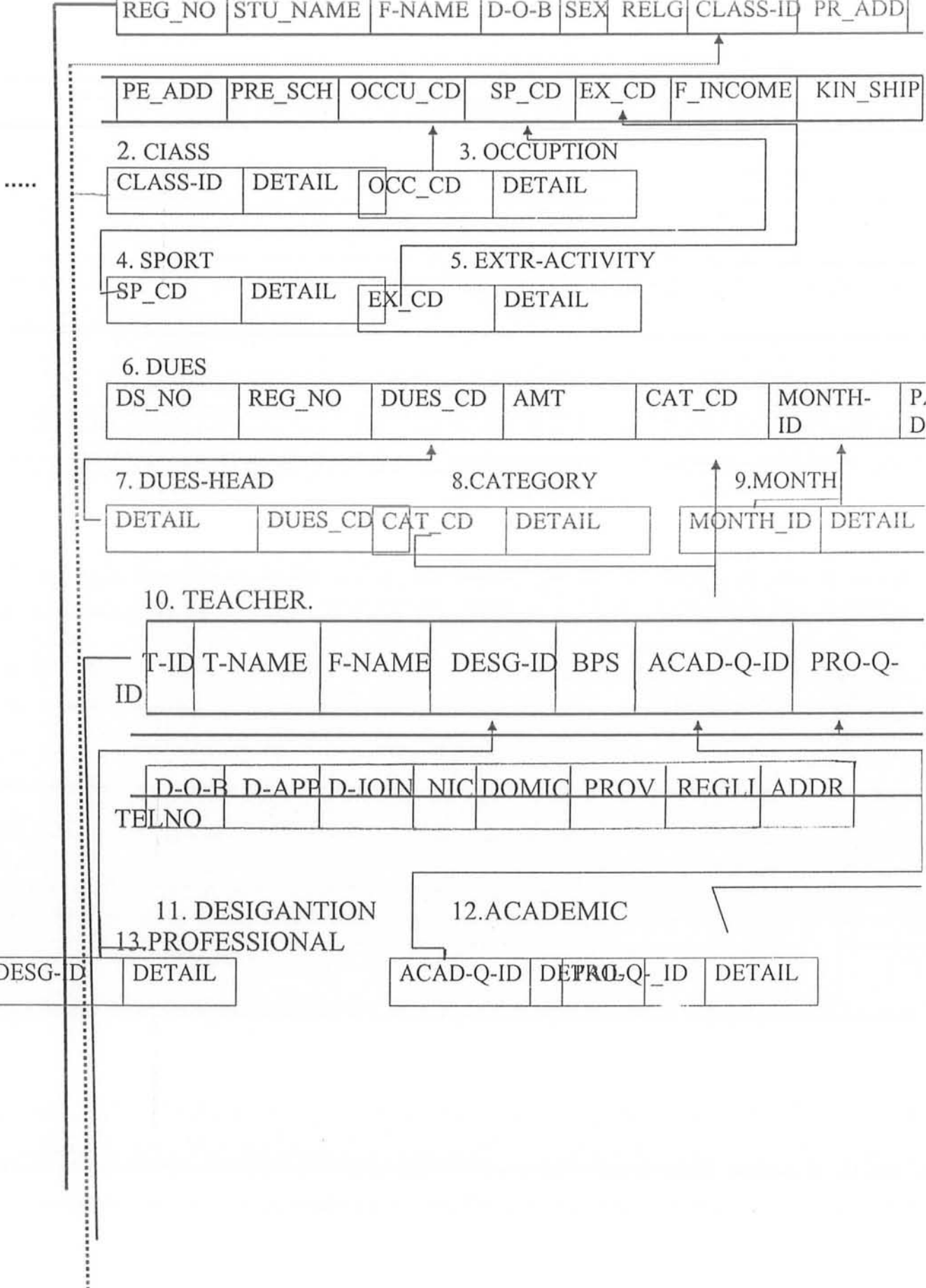
11. DESIGANTION

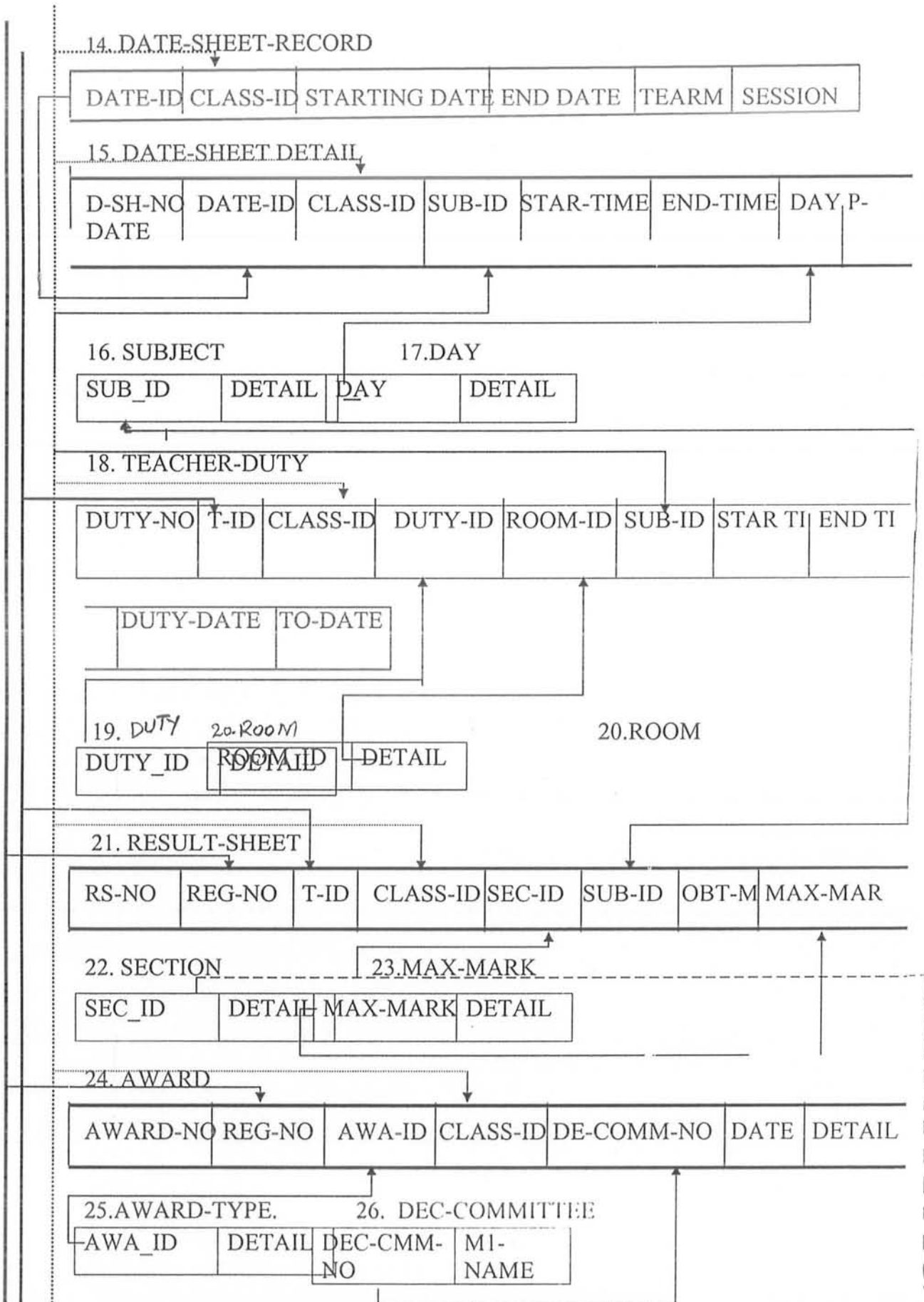
13. PROFESSIONAL

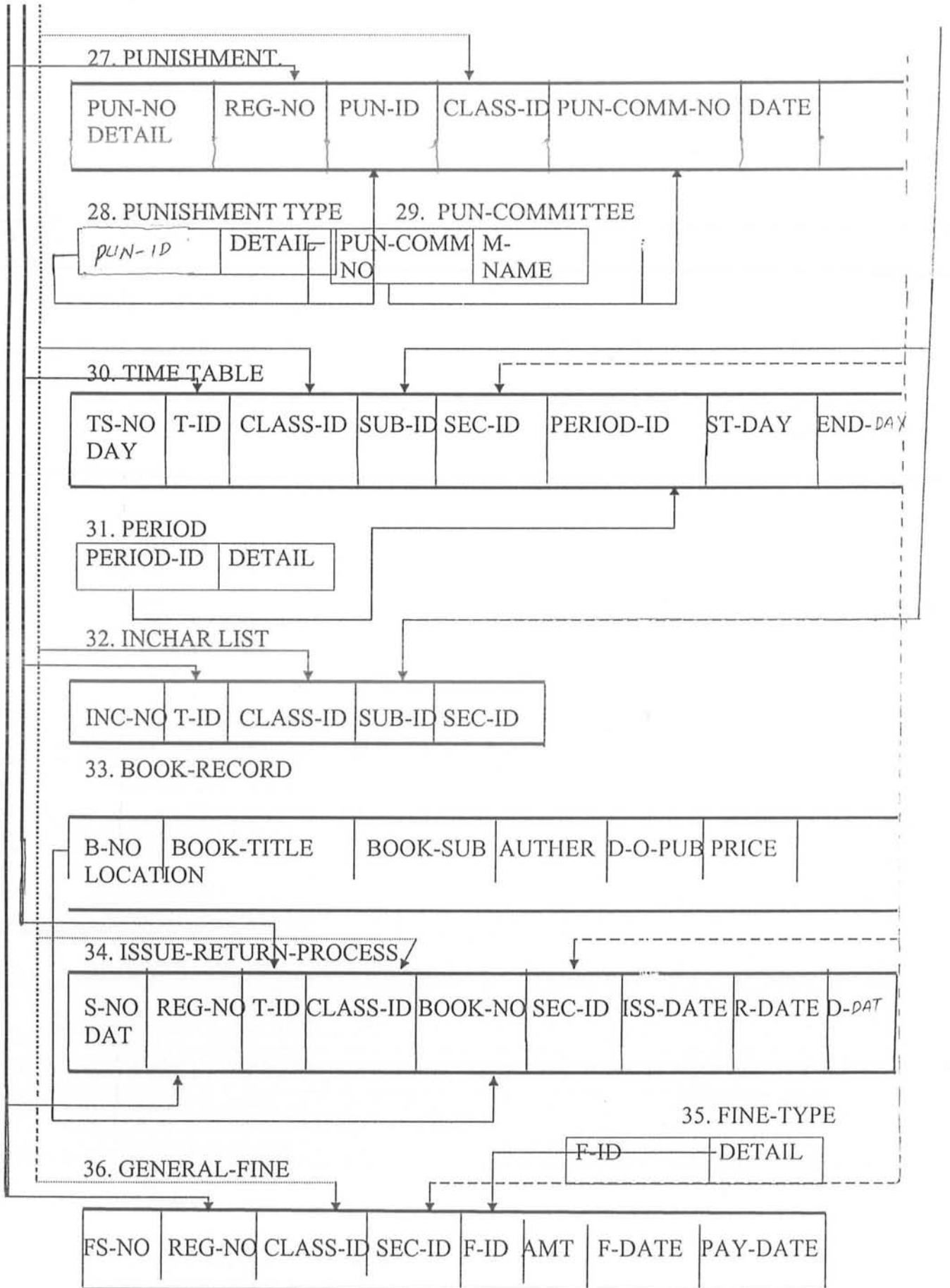
DESG-ID	DETAIL
---------	--------

12. ACADEMIC

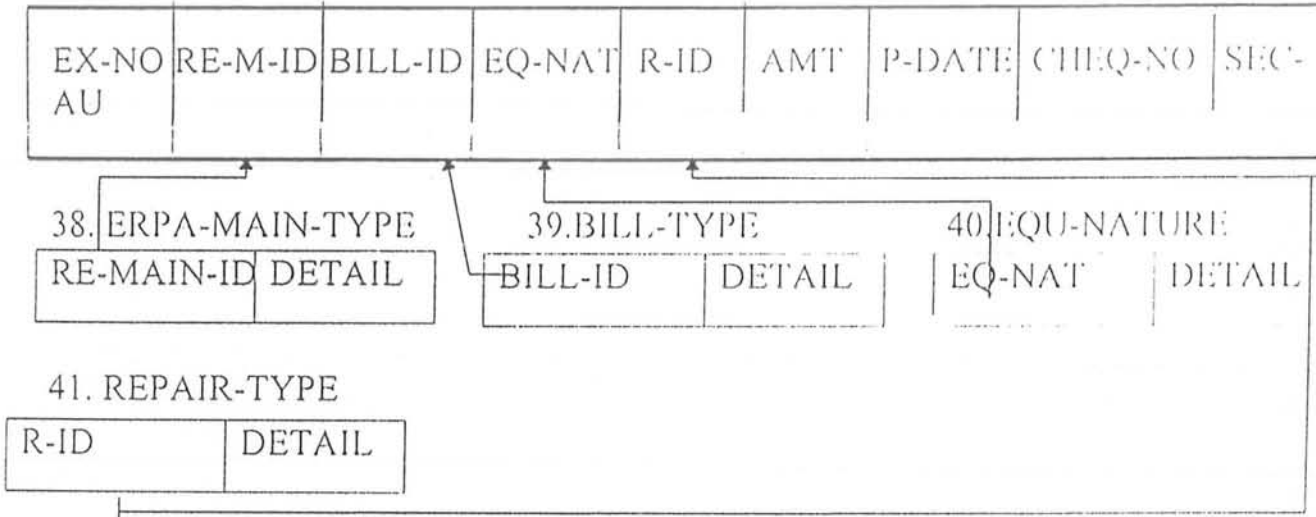
ACAD-Q-ID	DETPRO-Q-ID	DETAIL
-----------	-------------	--------







37. EXPANDITURE RECORD



Chapter No 6

FORMS

F. G BOYS SECONDARY SCHOOL MARRIR HASSAN RAWALPINDI

<input type="checkbox"/>	STUDENT
<input type="checkbox"/>	TEACHER
<input type="checkbox"/>	LIBRARY
<input type="checkbox"/>	EXPENDITURE

EXIT

M. AKHTAR
AND
M. IMRAN

Count: 0

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW] - [6] X

Action Edit Block Field Record Query Window Help - [6] X

F.G SECONDARY SCHOOL MARRIR HASSAN RAWALPANDI

DATA ENTRY	INFORMATION	
<input type="checkbox"/> ADMISSION	<input type="checkbox"/> STUDENT RESULT	<input type="checkbox"/> STU-G-FINE
<input type="checkbox"/> EXAMINATION	<input type="checkbox"/> STUDENT DUES	<input type="checkbox"/> STU-OBT-MARK
<input type="checkbox"/> DUES	<input type="checkbox"/> STUDENT FINE	<input type="checkbox"/> CODING
<input type="checkbox"/> FINE	<input type="checkbox"/> STUDENT AWARD	<input type="checkbox"/> REPORTS
<input type="checkbox"/> AWARD	<input type="checkbox"/> STUDENT PUNISH	M.AKHSTAR AND M.IMRAN
<input type="checkbox"/> PUNISHMENT	<input type="checkbox"/> SPORT STUDENT	<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> EXIT </div>
	<input type="checkbox"/> EX-ACT-STUDENT	
	<input type="checkbox"/> FATHER OCCUPATION	

Count: 10

Start | [Icons] | C:\DRAWIN... | C:\DRAWIN... | MOON1.doc - | C:\DRAWIN... | Developer/... | [Icons] | 4:07 PM

F.G BOYS SEC SCHOOL MARRIR HASSAN RAWALPINDI

DATA ENTRY

<input type="checkbox"/> TEACHER RECORD	<input type="checkbox"/> LIST DUTY & TEACHER	<input type="checkbox"/> CODING
<input type="checkbox"/> TEACHER DUTY	<input type="checkbox"/> TIME TABLE TEACHER	<input type="checkbox"/> REPORTS
<input type="checkbox"/> TEACHER TIME TABLE	<input type="checkbox"/> DUTY & LIST OF TEACH	
<input type="checkbox"/> INCHAR LIST	<input type="checkbox"/> TEACHER NAME & RESULT	
<input type="checkbox"/> DISCIPLI COMMITTEE	<input type="checkbox"/> ACDEMIC-QUALI & TEACH	
<input type="checkbox"/> PUNISHMENT	<input type="checkbox"/> PROF-QUALI & TEACHER	
	<input type="checkbox"/> DESGANTION & T-NAME	<input type="checkbox"/> EXIT

M. AKHTAR AND M. IMRAN

LIBRARY SYSTEM OF F.G BOYS SEC SCHOOL RAWALPINDI

DATA ENTRY

EXIT

ISSUE ERTURN PROCESS

BOOK ENTRY

INFORMATION

BOOK STU\NAME

BOOK TEACHER NAME

INFO ABOUT BOOK

M.AKHTRAF
AND
M.IMRAN

Count *0

F.G BOYS SEC SCHOOL MARRIR HASSAN RAWAPINDI

IDENTITY	
EXPANDITURE	
ACCOMMODATION	
WEE TIME	
DISCIPLINE	
REPT/ATTN	
	EXIT

MARTIN J. MURPHY

Count: 0

DATE-SHEET SYSTEM OF F.G BOYS SEC SCHOOL RAWALPINDA

DATE SHEET NO

DATE SHEET

DUTY TYPE

ROOM NO

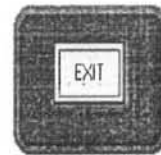
SUBJECT

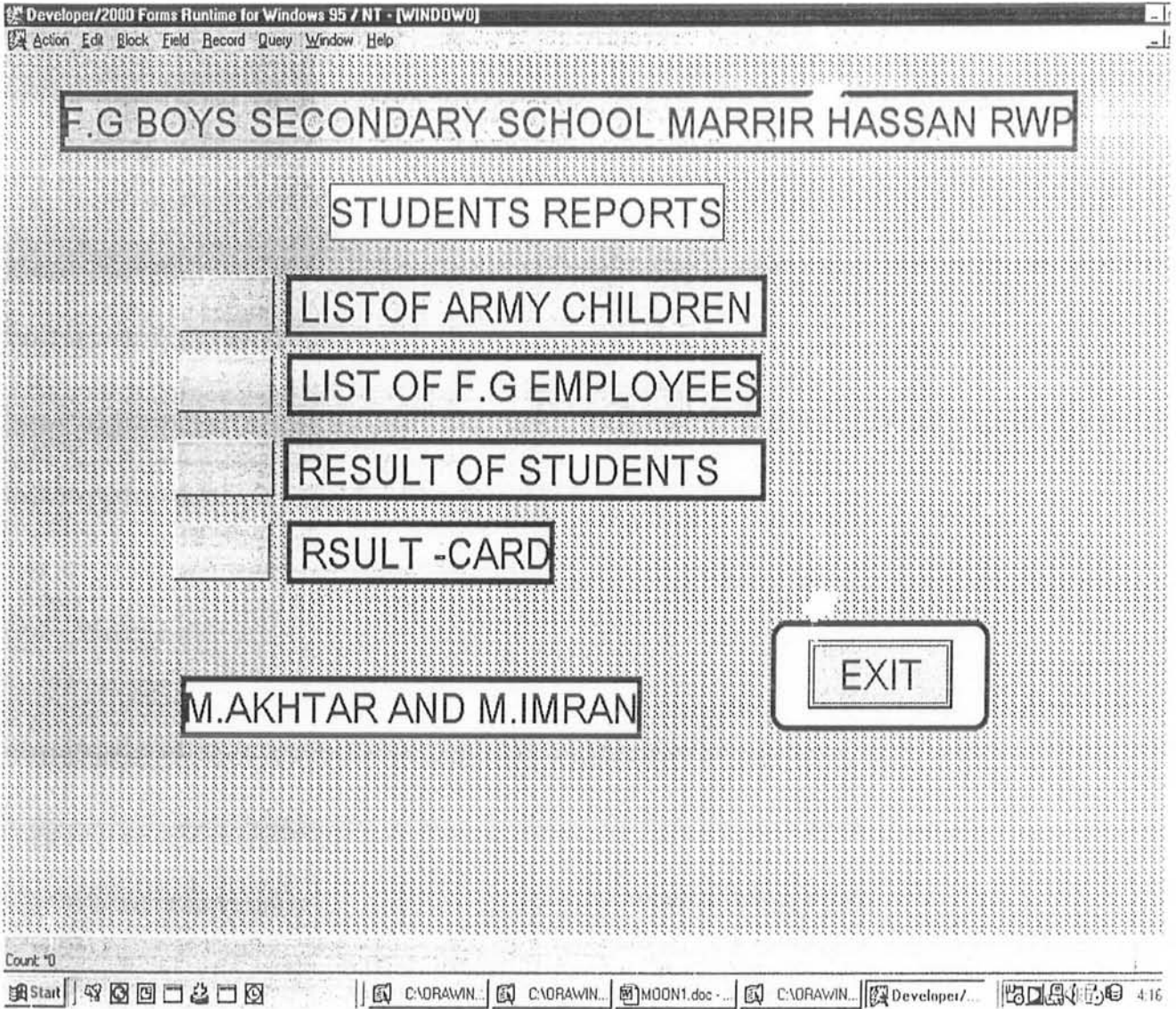
DAY

MONTH

SECTION

CLASS





STUDENT

Reg No:

Student Name:

F Name:

D. O. B:

Sex:

Class:

Religion:

Present Address:

Permant Address:

Previous School:

Occu Cd:

Sport Cd:

Extra Ac Cd:

F Income:

Kin Ship:

Course Of Study:

Navigation buttons: << < > >> Query Save

RESULT SHEET

Rs No	Reg No	Teacher Id	Class	Section-ID	Sub Id	Obt Mar	Max Marks
1	101	2	3	2	1	34	2
2	101	3	3	2	2	45	2
3	101	4	3	2	3	44	2
4	101	5	3	2	5	56	2
5	101	4	3	2	7	88	1

<< < > >> Query Save

Reg No 101

Student Name MUHAMMAD AWAIS

<<	<	>	>>	Query	Save
----	---	---	----	-------	------

Rs No	Teacher Id	Class	Sectic	Sub Id	Obt Mar	Max Ma
1	2	3	2	1	34	2
2	3	3	2	2	45	2
3	4	3	2	3	44	2
4	5	3	2	5	56	2
5	4	3	2	7	88	1

Count: 1 v

STUDENT

Reg.No 102

Student Name NAUMAN ALAM

Occr Cd 4

Sport Cd 2

Extra Ac Cd 4

<< < > >> Query Save

DUES

Ds No	Dues C	Amt	Month	Car Cd	Pay Date
10	1	15	1	2	02-JAN-99
11	2	1	1	2	02-JAN-99
12	4	15	1	2	02-JAN-99
13	6	8	1	2	02-JAN-99
14	7	8	1	2	02-JAN-99

Count 2 ^v

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]

Action Edit Block Field Record Query Window Help

Occu Cd | 1 | Detail | ARMY

<< < > >> Query Save

STUDENT

Reg No	Student Name	F Name	En Ship
106	ASAD	ASHRAF	N
107	TARIQ	M.YASEEN	N
109	ABDULLAH	M.ALI	N
110	M'AMIN	M.NAWAZ	N
112	SAMI ULLAH	AHMAD ALI NADEEM	N

Count: 1 v

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TEACHER

Teacher Id 5

T Name NAEEM AKHTAR KANV

Designation Id 4



Query

Save

TEACHER DUTY

Duty No	Duty I	Room	Class	Sub Id	Starting	End Time	Duty Date	To Date
6	3	2	8	6			25-SEP-00	17-SEP-00
7	3	3	8	9			26-SEP-00	17-SEP-00

Count 5 ^v

DEVELOPER Duty Id | 1 Description | MARKING

« « « » » Query Save

1	2	1	10	1	12-SEP-00	10-SEP-00
2	2	1	10	2	13-SEP-00	10-SEP-00
3	3	2	10	3	15-SEP-00	15-SEP-00
4	4	4	10	4	24-SEP-00	17-SEP-00
13	9	4	9	5	06-MAR-99	01-MAR-99

1 MARKING



1	2	1	10	1	12-SEP-00	10-SEP-00
2	2	1	10	2	13-SEP-00	10-SEP-00
3	3	2	10	3	15-SEP-00	15-SEP-00
4	4	4	10	4	24-SEP-00	17-SEP-00
13	9	4	9	5	06-MAR-99	01-MAR-99

Developer/2000 Forms Runtime for Windows 95 / NT - (WINDOW0)

Action Edit Block Field Record Query Window Help

ACADEMIC_QUALI Acad Qual Co 6 Detail M.A

<< < > >> Query Save

TEACHER

Teacher Id	T Name	F Name	Desiga	Bps
1	MUHAMMAD YAR GOND	M. AHMAD GONDA	1	19

Count: 8

Start | C:\ORAWIN... | C:\ORAWIN... | MOON1.doc... | C:\ORAWIN... | Developer/... | 4:28 PM

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW]

Action Edit Block Field Record Query Window Help

STUDENT

Reg No: 101 Student Name: MUHAMMAD AWAIS F Name: IJAZ AHMAD

ISSUE_RETURN_PROC

S No	Teacher Id	Class	Section	Book No	Issue Date	Return Date	Due Date
1		3	2	1	12-MAR-00	22-MAR-00	25-MAR-00

Count: 1

Start | C:\ORAWIN... | C:\ORAWIN... | MOON1.doc... | C:\OR4WIN... | Developer/... | 4.25

BILL_TYPE

Bill Id | 1

Description | ELECTRIC-BILL

<< < > >> Query Save

EXPANDITURE RECORD

Ex Record	Re Maj	Eq Nat	Repair	Amt	Pay Date	Cheque No	Sanction Authority
1	1	1		10000	25-MAR-02	23445667	GSO-1
6	1	1	1	900	06-MAR-99	3656767578	H.M

Count: 1 v

REPA_MAIN_TYPE

Re Main Id | 1

Description REPAIR

<< < > >> Query Save

EXPANDITURE_RECORD

Ex Record	Bill	Amt	Pay Date	Cheque No	Sanction Authority
1	1	10000	25-MAR-02	23445667	GSO-1
5	2	600	15-DEC-01	456734234	H.M
6	1	900	06-MAR-99	3656767578	H.M
10		9000	06-MAR-99	4556678678	G.SO-1

Count: 1 v

REPORTS

List ARMY CHILDREN			
<u>Reg No</u>	<u>Student Name</u>	<u>F Name</u>	<u>Class</u>
106	ASAD	ASHRAF	1
107	TARIQ	M.YASEEN	3
109	ABDULLAH	M.ALI	9
110	M'AMIN	M.NAWAZ	9
112	SAMI ULLAH	AHMAD ALI NAD	1
113	MUHAMMAD ZIA	LAL MUHAMMAL	1
114	AHMED ABBAS	MUHAMMAD	8
115	MUHAMMAD MC	M.AKHTAR	

Stu_r2: Previewer

File Edit Window Help

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LIST F G EMPLOYEES CHILDREN

RegNo	StudentName	FName
101	MUHAMMAD AW/	IJAZ AHMAD
108	AFZAL	M.WAHEED

Start | C:\ORAWIN... | C:\ORAWIN... | Developer/20... | Reports Server | Stu_r2: Pre... | 4:33 PM

RESULT_R5: Previewer

File Edit Window Help

Prev Next First Last Page: 1 Print Mail Close New

RESULT OF STUDENT

Reg No 101
 Student Name MUHAMMAD AWAIS
 F Name IJAZ AHMAD

Reg No2	Obt Marks	Max Marks	Class Id
101	34	2	3
101	45	2	3
101	44	2	3
101	56	2	3
101	88	1	3
101	78	1	3
101	45	2	3

Reg No 102
 Student Name NAUMAN ALAM
 F Name FAKAR ALAM

Start | [Icons] | C:\ORA... | C:\ORA... | Developer... | MOON2.d... | Reports S... | RESULT... | [Icons] 4:42 PM

RS 2: Previewer					
File Edit Window Help					
Prev	Next	First	Last	Page: 1	Print Mail Close New
result sheet of student					
Req No	Obt Marks	Max Marks	Section Id	Sub Id	
101	34	2	2	1	
101	45	2	2	2	
101	44	2	2	3	
101	56	2	2	5	
101	88	1	2	7	
101	78	1	2	6	
101	45	2	2	2	
102	67	2	3	1	
102	56	2	3	2	
102	67	2	3	3	
102	34	2	3	4	
102	55	2	3	5	
102	67	2	3	5	
102	88	1	3	6	
102	77	1	3	7	
102	34	1	3	11	
103	25	2	4	1	
103	20	2	4	2	
103	45	2	4	3	
103	13	2	4	4	
105	78	1	3	7	
115	90	1	2	7	
115	60	1	2	8	
115	45	1	2	9	

TR_IN_L: Previewer		File Edit Window Help				Print	Mail	Close	N
Prev	Next	First	Last	Page: 1					
INCHAR LIST									
Class Id 10	Inc No 1								
Section Id 2									
		<u>Teacher Id2</u>	<u>T Name</u>						
		2	M.ANWAR MAWAHAID						
Class Id 10	Inc No 2								
Section Id 3									
		<u>Teacher Id2</u>	<u>T Name</u>						
		3	M.ISLMAIL MAIL						
Class Id 9	Inc No 3								
Section Id 2									
		<u>Teacher Id2</u>	<u>T Name</u>						
		4	HAFIZ KHAIL AHMMAD						
Class Id 9	Inc No 4								
Section Id 3									
		<u>Teacher Id2</u>	<u>T Name</u>						
		5	NAEEM AKHTAR KANWAR						
Class Id 8	Inc No 5								
Section Id 2									
		<u>Teacher Id2</u>	<u>T Name</u>						
		1	MUHAMMAD YAR GONDAL						
Class Id 5	Inc No 6								
Section Id 3									
		<u>Teacher Id2</u>	<u>T Name</u>						



TRJ: Previewer			
File Edit Window Help			
Prev	Next	First	Last
Page: 1		Print	Mail
		Close	New
ACDEMIC QUALIFICATION OF TEACHER			
Detail MATRIC			
Acad Quali Cd2	T Name	Designation Id	
1	M. IQBAL QAZI	6	
Detail F.A			
Acad Quali Cd2	T Name	Designation Id	
2	QALIB-E-ABBAS	6	
Detail F.SC			
Acad Quali Cd2	T Name	Designation Id	
3	SHABBER AHMED	5	
Detail B.A			
Acad Quali Cd2	T Name	Designation Id	
4	M. ANWAR MAWAHAID	2	
4	NAEEM AKHTAR KANWAR	4	



Descripti MARKING Duty : 1

Duty Id	Duty N	End Ti	room I	Starting T	Sub I	Teacher Id	To Date
1	1		1		1	2	*****
1	2		1		2	2	*****
1	3		2		3	3	*****
1	4		4		4	4	*****
1	13		4		5	9	*****
1	15				7	9	*****
1	17		10		10	8	*****
1	19				3	7	*****

Descripti RE-CHECKING Duty : 2

Duty Id	Duty N	End Ti	room I	Starting T	Sub I	Teacher Id	To Date
2	11		2		6	4	*****

