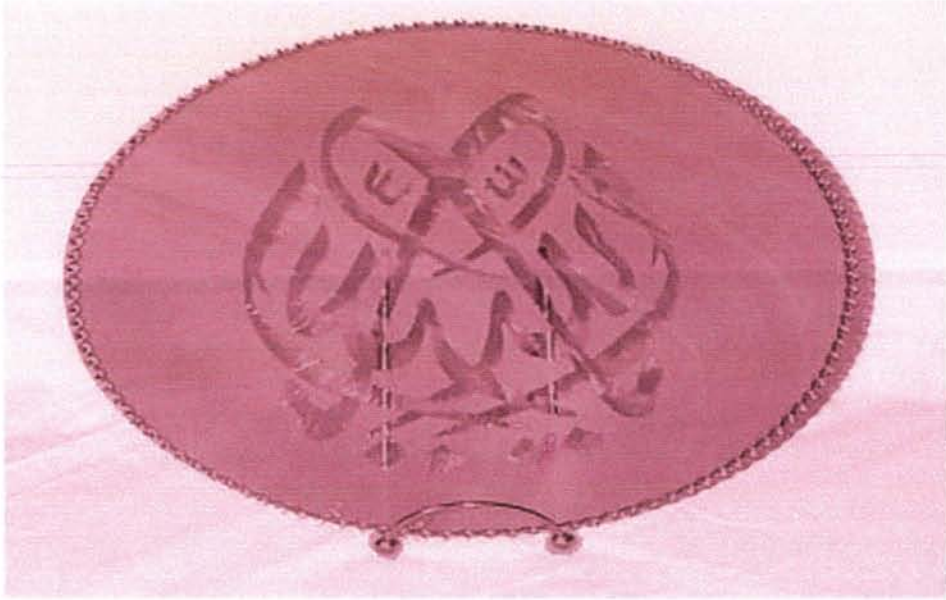


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*IN THE NAME OF ALLAH  
WHO IS THE MOST BENEFICIENT  
AND MERCIFUL.*

MFN-6543

**STUDENT INFORMATION SYSTEM**  
**OF**

**ISLAMABAD MODEL COLLEGE FOR BOYS**

**F-10/3 ISLAMABAD**

***BY***

**REHANA FARHAT**

**SUPERVISED BY:**

**Dr. Ghulam Muhammad**



**COMPUTER CENTRE**

**QUAID-I-AZAM UNIVERSITY**

**ISLAMABAD**

## FINAL APPROVAL

This is certified that we have read the project submitted by Rehana Farhat and it is our judgement that this project is of sufficient standard to warrant its acceptance by the Quaid-e-Azam University, for the post graduate diploma in computer sciences.

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## **DECLARATION**

I declare that this software, neither as a whole nor as a part has been copied from any source. It is further declared that I have completed my final project of PostGraduate Diploma in computer Sciences successfully as a result of my own struggle and research. No portion of this whole work presented in this report has been submitted in support of any application for any other degree or qualification of this or any other University or institute of learning. If any part of the project and write up is proved to be copied out or there is any duplication of code, then I will be responsible for the consequences.

  
**REHANA FARHAT.**

## ACKNOWLEDGEMENT

The whole praise to Almighty Allah, the most beneficent and Merciful, Creator of this universe who made human beings the supreme creature and blessed them with wisdom and knowledge. I am really thankful to Allah who enables me to accomplish this task. Peace and blessings of Allah be upon the Holy Prophet and his pure progeny, who exhorted his followers to seek for knowledge from cradle to grave.

---

I would like to express my deepest gratitude to my supervisor Dr. Ghulam Muhammad whose technical guidance, suggestions and patience led me to fulfill this task. I am also thankful to all the teachers of computer center who helped me to complete this diploma course. Thanks to computer lab and office staff who always extended their help to me.

I also express my deepest affection for my parents whose prayers for my success are an endless source of encouragement for me in all spheres of life. May Allah bless them with eternal peace, Amin. I am thankful to my family members whose cooperation, encouragement and help made this task a bit easier to me. I am highly indebted to my friends whose excellent cooperation and nice companionship helped me a lot in completion of this project.

Last but not the least, I owe special thanks to the FDE for the arrangement of this course to enable employees fetch the latest knowledge of computer science and enhance their capabilities.

**DEDICATED TO**

**MY  
BELOVED  
PARENTS**

**Whose prayers have made me what I am today**

**&  
SONS**

**whose patience & cooperation made me to complete the course**

## ABSTRACT

This project is about student information system of Islamabad Model College for Boys F-10/3 Islamabad. The present system in I.M.C.B, F-10/3, Islamabad is completely manual and information of student's record academic and examination result are kept in files and registers.

To get information about any student, searching must be performed using students allotted no, which is time consuming

This system provides an efficient means of storage and retrieval of information pertaining to the student. Tool used for system development is Oracle\Developer 2000. The information stored in the database is manipulated with the help of forms layout designed for the system. The information is retrieved from the database in the form of queries and reports.

## PROJECT BRIEF

Project Title	Student Information System of Islamabad Model College for Boys, F-10/3, Islamabad.
Undertaken By	Mrs. Rehana Farhat
Supervised By	Dr. Ghulam Muhammad
Starting Date	3 <sup>rd</sup> July, 2003.
Completion Date	29 <sup>th</sup> Sept., 2003
Software Used	Oracle/Developer 2000 (Version 7 Forms 4.5)
System Used	Pentium III



## **PREFACE**

The report is concerned with the analysis, design and implementation of “**Student Information System**”. The entire work is presented in Seven Chapters followed by appendices.

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CHAPTER NO. 1 :	<b>Problem Definition and Scope</b>
CHAPTER NO. 2 :	<b>The Current Existing System and its Drawbacks</b>
CHAPTER NO. 3 :	<b>The Proposed System</b>
CHAPTER NO. 4 :	<b>System Design</b>
CHAPTER NO. 5 :	<b>System Development</b>
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# **CHAPTER NO. 1**

## **PROBLEM DEFINITION AND SCOPE**

### *Introduction: -*

Computer is playing an important role in developed countries but in the developing countries like Pakistan there is a need to introduce the computer in many fields, especially in education and communication.

Problem definition includes determining the nature of problem, its scope and system objectives. The first task is to understand the problem. The next is to establish the scope and the limitation of the project and then general objectives of the system are decided.

### *1.1 The Nature of The Problem: -*

Presently in I.M.C.B. F-10/3 complete information about a student is not available at one place and getting complete information is very laborious and difficult. As information about examination system is kept in examination section, personal information is recorded in admission registers while the information about attendance is kept in attendance register and fee record is maintained by account section.

To get information searching is required to be performed which is time consuming. Besides this the following problems exists in present manual system.

- There is no information about a student who takes part in games and other co-curricular activities.

- If a student is a son of government servant, none information is available.

Computerization of above-mentioned problems will save the precious time and accurate record keeping will be established.

### ***1.2 Need & Scope: -***

The scope of proposed system is to provide a flexible computerized student information system for I.M.C.B. F-10/3. It would provide efficient means of storage and retrieval of records.

This project is being carried out to fulfill the need of computerization of the following.

1. Student personal information.
2. Exam system information.
3. Academic record.
4. Co-curricular activities information.

### ***1.3 Objectives: -***

There is a need to keep complete information about each student in a systematic and well-organized manner so that information can be made available whenever needed in an efficient way. Therefore requirement of this project is to provide each type of information about the student with the following features:

- Better management and control of the student information.
- Easily accessible complete information about students.
- Well formatted reports.
- An easy way to use system.
- To reduce data duplication.

## **CHAPTER NO. 2**

### **THE CURRENT EXISTING SYSTEM AND ITS DRAWBACKS**

#### *Introduction to I. M. C. B, F-10/3 Islamabad: -*

Islamabad Model College For Boys, F/10/3, Islamabad is a part of the chain of Islamabad Model Colleges. It is an institution reputed for imparting quality education to its students. It started working basically as a Secondary School on Aug. 31, 1994. Later on, it was upgraded as a college in 1998. Its educational program ranges from class I to XII. In the lap of green Margalla hills, the college has a beautiful campus with an attractive façade. The college building consists of Administrative block, Junior and Senior section blocks, a furnished and well equipped auditorium with excellent acoustics and a vast, lush green play ground. The Chemistry, Physics, Biology and Computer labs are fitted out necessary equipment. The college is affiliated with F.B.I.S.E. the faculty members are highly qualified with a tremendous drive and real professional flair. Apart from the syllabus education, the college focused the character building of the students in a highly affective manner by employing all useful aids.

Currently, the college is running its affairs under the control of Federal Directorate of Education, Ministry of Education, Islamabad. The principal is the administrative head of both senior and junior sections. In the administration of the institution, the vice-principal assists him for the senior and the headmistress for the junior section.



Every institution whether large or small uses information system to maintain the important subjects of information which are vital for its existence. Such a system is indispensable in every institution, which maintain the necessary information about its students.

## ***2.1 Student Information System: -***

---

Student information system as discussed cover the following: -

- A. Student personal information.
- B. Student previous school information.
- C. Examination information.
- D. Fees and other dues information.
- E. Participation in curricular and co-curricular activities information.

### ***2.1.1 Personal Information: -***

Two types of information are maintained about a student.

#### ***2.1.1.1 Personal: -***

This area covers the information such as name, father's name, address, date of birth, residence from, B.Form and NIC etc.

#### ***2.1.1.2 Academic: -***

Student's current and previous academic information is stored.

## ***2.2 Academic Programs: -***

To know what does the proposed computerized system exactly do, it is necessary to have knowledge about academic process at I.M.C.B. F-10/3, Islamabad. Academic process at I.M.C.B. F10/3 and related rules and regulations are given below:

### ***2.2.1 Admission System in I.M.C.B. F-10/3: -***

The admission in class one is centrally controlled. The admission Committee is formed by the Federal Directorate of Education and one of the model colleges plays the host for conducting tests and interviews. The admission committee includes principals and some senior members from the teaching faculties of different colleges. Merit is the top priority and the admissions are given strictly in accordance with the merit policy.

The admission in classes II-IX is given on the basis of internal tests conducted by Controller of Examination. Only those students are granted admission who qualifies the test and meet the merit. If the candidate comes up on merit, the principal issues an admission form to him. The complete filled forms with last school leaving certificate, proof of date of birth with B.Form and proof of residence in Islamabad is submitted in the college. In this way a student can get admission in I.M.C.B. F-10/3 Islamabad.

### ***2.2.2 Examination System: -***

This institution has a full-fledged Examination Department to conduct Home Exams. This department is comprised of Controller of Examination and Deputy Controller of Examinations chosen from the members of the teaching staff.

This institution conducts three terminal exams a year

- First Terminal Examination (held before Summer Vacations)
- Second Terminal Examination (held in December)
- Third Terminal Examination (held in March)

### **2.2.3 Promotion Policy & Gradation: -**

Promotion policy given by, Federal Directorate of Education Ministry of Education, is followed for promotion to next class.

- A. The minimum pass marks for each subject are 40%. Candidates obtaining less than 40% marks in any subject are deemed to have failed in that subject.
- B. If a student fails to appear in the final exam on medical any other reason, he is treated as absent or failed.
- C. There is a policy that in the internal final exam a student is required to obtain overall 40% marks to be promoted to the next class.
- D. If a student is failing continuously for the last two years, he shall be ceased to be a student of the college.
- E. Candidate securing 80% marks or more in the final shall be given grade "A1", 70%to79% grade "A", 60%to 69% grade "B", 50% to 59% "C", 33% to 49% "D" and below 33% will be considered fail.

### **2.2.4 Co-curricular & Extra-curricular Activities: -**

The students are invited to participate in the following activities.

- Qirat & Naat Competition.



- English/Urdu Debates.
- English/Urdu Essay writing.
- Quiz Competition.
- Milli Nagma/Songs Competition.
- Science Exhibition.
- Poster-Drawing Competition.
- English/Urdu Calligraphy Competition.
- Sports Cricket, Football, Volleyball, Badminton, table tennis and Athletics.

### ***2.3 Drawbacks of The Existing System: -***

Since the present working system is manual, so there are a lot of problems faced by the authorities. The following are the drawbacks of the existing system:

- ***Efficiency:***

A large no of paper files have to be maintained to keep the information about the students. Whenever records of a particular student are searched a lot of time is consumed. This tends to minimize the efficiency of the existing system.

- ***Unreliable Backup:***

All the information and data are stored on papers, files and the registers, which are liable to be lost or destroyed.

- ***Time Factor:***

It is the fact that the number of students is increasing with the passage of time. As the system is manual, thus the access, updating, deletion and insertion of records take a lot of time.

- ***Redundancy:***

There is a high level of redundancy in the existing system. The only input for the student's record is the admission form. Moreover the present system occupies more space stationery and manpower.

---

## **CHAPTER NO. 3**

### **THE PROPOSED SYSTEM**

#### ***Introduction: -***

Computerization means to change ones from a manual system to a computer-based system. The most important phase after a study of existing system, is the designing of new system. The present system as discussed earlier has a number of drawbacks and limitations.

The proposed system has been designed after conducting a detailed study of the present system. It is a computerized system in which a data processing method is used to make the system more efficient, reliable and easy to use than present manual system.

Having meetings and asking related questions from the concerned section of the school collected the necessary information and data.

Some other necessary information was obtained by getting and looking different forms, register and files that are used for keeping student records.

The collected information was analyzed and it was decided that computerized system contain the following information about every student.

#### ***3.1 Admission Information: -***

1. Allotted admission numbers.
2. Date of admission in the school.

3. Name of class & section
4. Previous school leaving certificate.
5. Session.

### ***3.2 Personal Information: -***

1. Student name.
2. Father/guardian's name.
3. Date of birth.
4. B-Form or NIC.
5. Address.
  - a) Permanent home address.
  - b) Present postal address.
  - c) Telephone number.
6. Religion.
7. Nationality.
8. Father's occupation.

### ***3.3 Academic Information: -***

1. Class attendance
2. Roll No.
3. 1<sup>st</sup> term marks.
4. 2<sup>nd</sup> term marks.
5. Final term marks.
6. Grade.

### ***3.4 Final Report: -***

1. Grand total marks.
2. Obtained marks.
3. Percentage.
4. Overall grade.
5. Status.
6. Remarks.
7. Position in class.

### ***3.5 Other Information: -***

If a student takes part in the other activities then information about co-curricular activities:

1. Debates (English/Urdu)
2. Naat Khawani.
3. Qirrat.
4. Art Competition.
5. Eassy writing.
6. Calligraphy.
7. Mili Naghma.

### ***3.6 System Requirements: -***

After the detailed study of existing system, defining problems, specifying system collected data, system requirements were identified. The system must provide;



1. Queries (Information on the screen)
2. Printed reports when required.

The information and printed reports include: -

1. Personal information.
2. Academic carrier.

---

a) Academic year wise information.

1. Admission numbers of students.
2. Passed students.
3. Failed students.
4. A, B, C and D grade.

b) For each student.

1. Grand total marks.
2. Overall grade.
3. Overall percentage.
4. Status & remarks.
5. Position.

## **CHAPTER NO.4**

### **SYSTEM DESIGN**

#### *Introduction*

---

To plunge into design, producing comprehensive and detailed plans for all aspects of system is necessary. Every element within system needs to be designed and structured. Different user may have different views to a database, so the prime task of design is to integrate these views and to create an efficient physical database capable of supporting these views with adequate performance.

These factors have great impact on system design:

- ◆ Strong and clear problem definition
- ◆ Description of the existing system
- ◆ Clear description of the new system requirements

The system has been designed keeping in mind the objectives and requirements of the system that were set before.

The following work was done during system design:

- ◆ Input screen design
- ◆ Output screen/queries design
- ◆ Code design
- ◆ Database design

## ***4.1 Input Screen Design***

Data entry is very laborious and time-consuming job, so the input screen must be designed in such a way that chances of errors be minimized.

In the new system the input screen have been clearly designed to indicate its purpose such as personal information. Appropriate messages are displayed on screen when required.

There are thirteen different data screens used to enter the necessary information that are required for this system.

Input design include the following:

- ◆ Code design
- ◆ Form design
- ◆ Screen design

### ***4.1.1 Code Design***

A code can be defined as abbreviation of the actual data, which occupies fewer places. The probability of entering incorrect information is greater when data field is large enough to handle, so using of codes minimizes the chance of making errors. Some data fields require coding to speed up process time, save storage and reduce error making.

In new system codes have been designed for the following fields such as:

- **ADM-NO**
- **CLASS-ID**
- **SUBJ -ID**

### **4.1.2 Form Design**

The performance of the proposed system depends on the accurate data entry system. So, input forms are designed in such a way that the process of input becomes clear and accurate.

Following two types of input forms are designed for the proposed system:

---

- ◆ Data entry forms
- ◆ Code entry forms

#### **Data entry forms**

Data entry forms are:

- ◆ Admission-test record
- ◆ Attendance record
- ◆ Class-incharge information
- ◆ Co-curricular activities
- ◆ Date-sheet
- ◆ Dues information
- ◆ Duty-list
- ◆ Exam-hall information
- ◆ Promotion
- ◆ Result information
- ◆ Student record
- ◆ Time-table
- ◆ SLC record

### *Code entry form*

- ◆ Class code form
- ◆ Competition information form
- ◆ Competition type form
- ◆ Condition code form
- ◆ Dues-head form
- ◆ Exam-type form
- ◆ House-code form
- ◆ Leaving-status form
- ◆ Nationality code form
- ◆ Obligation-type form
- ◆ Realign code form

## **4.2 Output Screen/Queries Design**

Initial output consideration includes what output information is needed, how it should be presented, what format it should have, when it is needed, and what the volume of information will be.

Output screen factors include screen size, screen shape, resolution and color.

In the new system output screen consist of required queries, and those output screens that are used for retrieval, modification and deletion of records.

These screens have been designed clearly, and are user oriented. Appropriate messages are displayed when required.





**Table name**                      **Shifts**  
**Primary key**                    **Shift\_ID**  
**Description**                    **To store information about shifts code**

Table No. 4

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Shift_ID	Char	1	Not Null	Shift Code.
Descrpn	Char	7		Description of shift codes

**Table name**                      **Class**  
**Primary key**                    **Class\_ID**  
**Description**                    **To store information of class codes**

Table No. 5

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Class_ID	number	2	Not Null	Class codes
Class name	Char	7		Description of class codes

**Table name**                      **Section**  
**Primary key**                    **Sec\_ID**  
**Description**                    **To store information about section codes**



Table No. 6

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Sec_ID	Char	1	Not Null	Section codes
descrpn	char	5		Description of section codes

**Table name**                      **House**  
**Primary key**                    **Hs\_ID**  
**Description**                    **To store information about house codes**

Table No. 7

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Hs_ID	Char	1	Not Null	House codes
Hs_name	char	7		Description of house codes

**Table name**                      **Dues\_head**  
**Primary key**                    **Hd\_code**  
**Description**                    **To store information about dues head**

Table No. 8

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Hd_code	Number	3	Not Null	Dues head code
Detail	Char	15		Description of dues heads

**Table name**

**Dues**

**Description**

**To store information about dues deposited by the students**

Table No. 9

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Add_No	Number	5	Foreign Key	Student admission number
St_name	Char	30		Student name
Sessn	Char	7		Academic session
Shift_ID	Char	1		Shift code
Class_ID	Number	2		Class code
Sec_ID	Char	1		Section code
Hd_code	Number	3	Foreign Key	Dues head code
Amt	Number	4		Amount deposited
Month	Char	3		Month
Due_dt	number	2		Due date for dues deposit
Pay_dt	date			Payment date of dues deposited
Fine	Number	4		Fine in case of late payment

**Table name**

**Exam**

**Primary key**

**Exam\_code**

**Description**

**To store information about exam codes**

Table No. 10

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Exam_code	Char	7	Not Null	Unique examination code
Exam_name	Char	15		Examination name



**Table name**                      **Timings**  
**Primary key**                    **tmg\_code**  
**Description**                    **To store information about timings of examination**

Table No.13

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Tmg_code	Char	3	Not Null	Examination timing code
Description	Char	10		Description of timing code

**Table name**                      **Subjects**  
**Primary key**                    **subj\_code**  
**Description**                    **To store information about subjects**

Table No. 14

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/REFERENCE	DESCRIPTION
Subj_code	Char	4	Not Null	Unique code for a subject
Subj_name	Char	15		Subject name

**Table name**                      **Teacher**  
**Primary key**                    **Tchr\_ID**  
**Description**                    **To store information about teachers**



Sec_ID	Char	1		Section code
Sessn	Char	7		Session
Exam_code	Char	7	Foreign key	Examination code
Subj_ID	Char	4	Foreign Key	Unique number for subject
Max_Marks	Number	3		Maximum marks for a subject
Obt_Marks	Number	3		Obtained marks
Perc	Char	4		Percentage
Status	Char	1		Pass/Fail status

**Table Name**

**Promotion**

**Description**

**To store information about student's promotion to new class**

Table No.18

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
S_No	Number	5		Serial number
Add_No	Number	5	Foreign Key	Student admission number
St_Name	Char	30		Student name
Sessn	Char	7		Session
Shift_ID	Char	1		Unique shift code
Class_ID	Number	2		Unique class code
Sec_ID	Char	1		Section code
Exam_code	Char	7	Foreign key	Examination code
Subj_ID	Char	4	Foreign Key	Unique number for subject
Tot_max	Number	4		Grand total
Tot_obt	Number	4		Total obtained marks

Perc	Char	4		Overall percentage
Grade	Char	1		Grade
Status	Char	4		Pass/Fail status
Promt_class	Number	2		Promoted to class
Promt_sec	Char	1		Promoted to section
Rem	Char	20		Remarks

**Table name**

**Date\_Sheet**

**Description**

**To store information about date\_sheet**

Table No.19

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Exam_code	Char	7	Foreign key	Examination code
Sessn	Char	7		Session
Class_ID	Number	2		Unique class code
Subj_ID	Char	4	Foreign Key	Unique number for subject
Dt	Date			Date of examination
Tmg_code	Char	3	Foreign Key	Timing code

**Table name**

**Duty\_List**

**Description**

**To store information about duty list**

Table No.20

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
S_No	Number	5		Serial number

Exam_code	Char	7	Foreign key	Examination code
Sessn	Char	7		Session
Class_ID	Number	2		Unique class code
Sec_ID	Char	1		Section code
Shift_ID	Char	1		Unique shift code
Subj_ID	Char	4	Foreign Key	Unique number for subject
Dt	Date			Date of examination
Tmg_code	Char	3	Foreign Key	Timing code
Room_No	Number	2	Foreign Key	Examination room number
Tchr_ID	Number	3	Foreign Key	Unique number for teacher

**Table name**                      **Admission\_test**  
**Primary Key**                    **Reg\_No**  
**Description**                    **To store information about admission tests.**

Table No21

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Reg_No	Number	5	Not Null	Registration number
St_Name	Char	30		Student name
Prv_Sch	Char	40		Previous school name
Class_ID	Number	2	Foreign Key	Unique class code
Subj_ID	Char	4	Foreign Key	Unique number for subject
Max_Marks	Number	3		Maximum marks for a subject
Obt_Marks	Number	3		Obtained marks
Rem	Char	30		Remarks





Table No.24

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Page_No	Number	5	Not Null	Page number of SLC
Add_No	Number	5	Foreign Key	Student admission number
St_Name	Char	30		Student name
Sessn	Char	7		Session
Shift_ID	Char	1		Unique shift code
Class_ID	Number	2		Unique class code
Sec_ID	Char	1		Section code
Add_Dt	Date			Date of admission
Lvg_Dt	Date			School leaving date
Slc_Dt	Date			SLC issue date
Condn_code	Char	3	Foreign Key	Condition code
Lvg_sts_code	Char	6	Foreign Key	Leaving status code

**Table name****Compt\_Type****Primary key****Type\_code****Description****To store information about competition type codes**

Table No. 25

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Type_code	Char	5	Not Null	Competition type code
Detail	Char	40		Description of competition type code



Judge2_marks	Number	2		Marks given by judge No. 2
Judge3_marks	Number	2		Marks given by judge No. 3
Total_marks	Number	2		Total marks obtained
Pos	Char	3		Position

**Table name**

**Class\_incharge**

**Description**

**To store information about class incharges**

Table No. 28

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Sessn	Char	7		Session
Shift_ID	Char	1	Foreign Key	Unique shift code
Class_ID	Number	2	Foreign Key	Unique class code
Sec_ID	Char	1	Foreign Key	Section code
Tchr_ID	Number	3	Foreign Key	

**Table name**

**Time table**

**Description**

**To store information about class time table**

Table No. 29

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
Sessn	Char	7		Session
Shift_ID	Char	1	Foreign Key	Unique shift code
Class_ID	Number	2	Foreign Key	Unique class code
Sec_ID	Char	1	Foreign Key	Section code

Day	Char	3		
Period	Char	3		
Subj_ID	char	4	Foreign Key	Unique code for subject
Tchr_ID	Number	3	Foreign Key	Unique code for teacher

**Table name**

**Attendance**

**Description**

**To store information about attendance record**

Table No. 30

FIELD NAME	DATA TYPE	LENGTH	CONSTRAINT/ REFERENCE	DESCRIPTION
S_No	Number	5		Serial number
Add_No	Number	5	Foreign Key	Student admission number
St_Name	Char	30		Student name
Sessn	Char	7		Session
Shift_ID	Char	1		Unique shift code
Class_ID	Number	2		Unique class code
Sec_ID	Char	1		Section code
Month	Char	4		
Att_for_mth	Number	2		Attendance for the month
Prsnt	Number	2		Total number of presence
Abst	Number	2		Total number of absence
Lv	Number	2		Total number of leaves

## **CHAPTER NO.5**

### **SYSTEM DEVELOPMENT**

#### ***Introduction: -***

After the detailed study of the existing system and design of the proposed system comes the very important phase called system development. It is the process in which we develop the system to meet the requirements and the objectives of the existing system and proposed system respectively. During development phase software developer attempts to describe how data structures are to be designed and how the design of the system will be translated into programming language and testing is performed.

#### ***5.1 RDBMS: -***

A DBMS (database management system) is basically a computerized record keeping system i.e. it is a computerized system whose overall purpose is to maintain information and to make that information available on demand.

A relational data base is a database that is perceived by its user as a collection of time\_varying normalized relations of assorted degrees. The software that manages relational database is known as relational database management system (RDBMS).

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## **5.2 Software Selection: -**

Software selection plays a vital role in developing the system. The database selected for this system is oracle/developer 2000. Oracle is a complete database management system. Some important features of oracle/developer 2000 are: -

### **5.2.1 Multi User Support:**

Oracle is multi-user software. It provides a powerful client server relationship between server and its terminals because of distributed architecture of oracle, data and applications can be on multiple computers and communicate very efficiently.

### **5.2.2 Portability:**

Oracle R.D.B.M.S is fully practicable and it can be fully installed and run on variety of machines and operating systems.

### **5.2.3 Security:**

Oracle provides features of security. In oracle 2000 we can created different users and can grant different permissions to the users who can access with their own user name/password and can work with allowed permission.

Since **Oracle / Developer 2000**, a product from Oracle Corporation has been selected for the development of the system after considering a number of relational database management systems available these days. Developer 2000 makes it easy to build database applications .It handles most of the issues elegantly and well using the features of Oracle 7.

### ***5.3 Tools Used For System Development: -***

**DEVELOPER 2000** provides a number of sophisticated tools for the development of applications. Some of these tools are given as:

#### ***5.3.1 ORACLE SQL \*PLUS:***

Oracle **SQL \*PLUS** is an interface through which **SQL** commands may be entered and executed. We can use **SQL \*PLUS** program in conjunction with **SQL** database language and its procedural language extension **PL/SQL**.

The **SQL** database language allows us to store and retrieve data in Oracle. **SQL \*PLUS**, and **PL/SQL** command languages are powerful enough to serve the needs of users with some database experience. Yet straightforward enough for new users who are just learning to work with **ORACLE**.

#### ***5.3.2 ORACLE \*Forms***

The form component of **DEVELOPER/2000** is the environmental component in which you develop, not surprisingly from modules. It also provides the development framework for developing menu and **PL/SQL** library modules. These forms provide fast and easy data entry updating, deletion and queries to an **ORACLE** database.

#### ***5.3.3 ORACLE \*Reports***

The record component of **DEVELOPER/2000** is used to create different reports in a variety of styles. The reports designer also include libraries and data object. It can be user to produce a report derived from a single oracle table with column headings, columns of database information system and totals as desired.



Numbers of utilities are also available which allow easy manipulation of data structures along with the data stored in these structures. For example **DEVELOPER/2000** provide import/export utilities with the help of which it is possible to move structure along with the data contained in these field, from one to an other.

#### ***5.4 System Development: -***

Each system comprises of one or more component relation to one specific branch of system, a description of system components is given below:

##### ***5.4.1 Editors:***

**DEVELOPER/2000** provides editors, which are:

- **Layout Editor**
- **PL/SQL Editor**
- **Object Navigator**

##### ***Layout Editor***

It is used for creating, formatting and arranging interface items and boilerplate graphics. It provides us with complete set of drawing and editing tools. It provides quick excess to frequently used commands.

##### ***PL/SQL Editor***

It is used to write triggers, programs units, procedure etc.

##### ***Object Navigator***

It is used to display editors. It provides work area for creating and modifying form objects.

### **5.4.2 Forms:**

A form application represents data in an online format consisting of a series of field laid out in one or more windows. They also provide a good way of executing and changing that information. You can type data into the form fields or change that is on them, depending what the form designer let you does.

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There is a particular kind of form called a master/detail form that divides the form into a master record and several detail records. Once a form has been designed, data entry operators need not to know the **SQL** commands.

### **5.4.3 Canvas:**

A canvas is the “surface” on which you paint objects like text item, push buttons and check boxes etc. the window is the “frame” or “border” which forms a “view port” for the user. The user may not see all of the canvas at any one time, only as much as the window on the canvas allows him to. This view is some time referred to as canvas view.

### **5.4.4 Block:**

Block is the intermediate building unit for forms. You can think of a block in two ways:

As a collection of items.

As a collection of records.

Block usually corresponds to one table on the database. A form may have one or more blocks. A block contains a group of related field that is used to store some specific information.

#### ***5.4.5 Base Table:***

A database table, which is associated to a block, is called the base table for that block. This block contains all or some of the fields defined in that particular base table.

#### ***5.4.6 Field:***

A block item is the primary building unit of the form. Represent columns or data entry areas describe how the data should be displayed and validate. At the most basic level, field servers a container for data with in a form. A field is always owned by or associated with a block. Each block normally owns one or more fields.

#### ***5.4.7 Master Detail Relationship:***

A form may contain more than one block. These forms may have independent status. A block is called master block if in matter, there exists one or multiple records in detail blocks. There is primary to foreign key relationship between blocks.

#### ***5.4.8 Trigger:***

A trigger is a block of **PL/SQL** code we write to customize our application. We use trigger to respond run time events with appropriate processing. Triggers are set of processing commands. Triggers can be impose at field level and form level.

## ***5.5 System Implementation: -***

System implementation has the following two important sub phases:

- **Testing**
- **Conversion**

### ***Testing***

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Software testing is a critical element of software quality assurance and is the bases for the system acceptance. It is the processing of executing program with the intent finding errors. Three basic strategies are:

- **Direct cut- over**
- **Parallel conversion**
- **Pilot conversion**

## **CHAPTER NO. 6**

# **CONCLUSIONS AND RECOMMENDATIONS**

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### ***Introduction: -***

System evaluation is the process of judgment to see whether the proposed system has met the desired goals and requirements. We also see what are the drawbacks in the proposed system and which things should be included in the system and which are missed. Simply in the process of system evaluation, after a detailed study of developed system, we give conclusion and suggest recommendations.

### ***6.1 Conclusion: -***

I hope with the implementation of this system, the management of I. M. C. B, F-10/3, Islamabad will be benefited by the following features of the new developed system.

#### ***6.1.1 Efficiency:***

In the process of data entry instead of storing large and lengthy names respective codes are used. In this way most of the errors are reduced and processing is fast.

### ***6.1.2 Accuracy :***

The system provides accurate outputs because data entry validation checks or applied at the time of data entry.

### ***6.1.3 User Friendly :***

Every possible method has been used to reduce the errors at the time of data entry. For this purpose **LOC's** and validation checks are implemented so that only correct values are entered.

### ***6.1.4 Consistency :***

Uniform notation has been used throughout the system. Efforts have been made to keep the data homogenous. This has been accomplished by reducing data redundancy, insertion and updating anomalies.

### ***6.1.5 Device Independence:***

While continuing to operate efficiently, the system can run on other machine with different operating system as well. Only some minor changes in parameter setting would be needed to accomplish this task.

### ***6.1.6 Easy To Use:***

The developed system is menu-driven. Help is provided at every possible point. Data entry, updating, query and report generation operations all are provided through single screen. During data entry, the user can move between all the fields.

### **6.1.7 Modularity :**

The system is divided into number of modules. These modules are integrated together to meet the requirements of the user. In this way the modifications enhancement is the proposed system is easy for example new queries and reports could be designed.

### **6.2 Recommendations: -**

After developing a computerized “Student Information System” for I. M. C. B, F-10/3, Islamabad in a limited time, it is felt that due to time constraint there are some improvements which are needed in the proposed system although I tried my level best to develop it.

Further work that can be extended is as follow:

- The developed system can be modified to be implemented for college section.
- The computerized system for co\_curricular activities can be modified to handle Zonal and Inter zonal competitions and games as well.

## **CHAPTER NO. 7**

### **USER'S GUIDE**

#### ***Introduction***

The system developed is menu driven and the specially designed toolbar along with the tool tips help the user to understand the interface easily. Proper error messages and small tips during the data entry are available at every phase where the user may feel difficulty. However to make the system work efficiently and without any ambiguity, this guide may useful for the user of this application.

#### ***7.1 Log In And Out: -***

Windows 98 operating system installation is the first step towards system implementation. Second step is the **ORACLE** and **DEVELOPER/2000** installation. **SQL \*DBA**, an **ORACLE'S** tool, which is used to start and stop the **ORACLE DBMS** is also installed. It also performs maintenance and monitoring functions such as

- ❖ Initial Data creation,(Data Backup)
- ❖ Media Recovery



## **7.2 Starting The System: -**

First click the “START” icon on the desktop then “PROGRAMS”, then Personal Oracle For Window 95 and finally click the start database icon, after clicking it we see the following message in the upper dialogue window.

- Checking Security
- Instance Started
- Database Mounted
- Oracle Database Mounted Successfully

Now open from runtime from “Developer 2000 R2.t”, a screen will appear, select the main file either by entering the name or using the browse, user password will also be required. With these options we connect to the database. After a while main menu will be displayed.

Similarly in order to shutdown (close) the database, click on “stop database” icon is provided on the desktop.

## **7.3 FORMS: -**

Various forms layout have been designed to enter and retrieve data from the database. They form the basis of the database.

## **7.4 EDITING FIELDS: -**

It is the basic unit in the form design through which the form layout is able to store and retrieve data from the database.

It is the button line of the screen on which information about the status is displayed.

## **7.5 MESSAGE LINE: -**

It appears as button line of the developer form in which messages and additional help is displayed.

## **7.6 RECORD MANIPULATION: -**

There are four operations possible on the database table i.e. addition, deletion, modify, retrieve.

### **7.6.1 ADD RECORDS:**

If a user wants to add new records, he/she will have to adopt the following criteria. The form, which he/she wants to insert, must be displayed.

- ◆ Click the “**Record**” menu item on the main menu and then click “**insert**” or simply Click the new icon button on the toolbar. Now enter appropriate values for the different fields on the form.
- ◆ Pressing <**next arrow**> key it will save this new record.
- ◆ If you want to insert another record repeat the same process.
- ◆ After you have finished entering the records press the “**SAVE**” item in the “**ACTION**” menu or simply press “**SAVE**” icon button.
- ◆ Press <**EXIT**> from the “**ACTION**” menu or simply press the exit icon button to return to the main menu.

### **7.6.2 DELETE RECORDS:**

In order to delete a record from a table, user should follow the following steps.

Open the form corresponding to the tables which a record has to be deleted, place the cursor on the first field of the form and click “**REMOVE** from the

**RECORD**” menu of the form. This will remove record only from the workspace but not from the database, therefore to remove it permanently press save from the toolbar. It is worth mentioning that in order to remove a present record child record must be deleted first otherwise this deletes operation will result an error.

### **7.6.3 RETRIEVE RECORDS:**

When user want to retrieve the information from the database it can be retrieved in two different ways, which are as under:

- 1) Display All Records From The Tables.
- 2) Display Specific Record From The Table.

#### **Display All Records From The Table**

Open the form corresponding to the table from which you want to access information, place the cursor position to the first field in the form layout and click “EXECUTE” from the query menu. Now press the down arrow keys on the keyboard to see the details of each record one by one. In this way you can all records present in the table and ofcourse all the desired record for which you have done all this. This method is not good enough in case when the tables contains large no of records and searching the required record in this way is time consuming and required a lot of passion and concentration, therefore it is recommended to adopt the second approach.

#### **Display Specific Record From The Table**

Similarly in this case, open the form and place the cursor under the first field in the form and click ‘enter query’ from the query menu of the form now enter a specific search criteria (condition) in the field and click ‘execute’ from the query menu. You will see only those

records, which are full filling the given criteria. The retrieved records may be one or more than one depending on the given condition.

#### **7.6.4 MODIFY RECORDS:**

To modify already existing records is quite a simple job. For this, you first need the records which you want to modify and for this you will have to repeat the same which you have studied in 2<sup>nd</sup> case of retrieving a specific records i.e. place the cursor under the first (main) text field of the form click 'enter query' from the query menu, specify the search condition and then click 'execute' from the query menu of the form, this will give you the required records and now you can change any field of the record by clicking it and changing its already existing value and to make these changes permanent click 'save' from the action menu of the form or click save icon button on the toolbar.

#### **7.7 COUNTING QUERY RECORDS: -**

Sometime we want to know in advance how many records will be retrieved in response to the search condition which we specify during 'enter query' operation. For this follow the steps

1. Press <enter query> key
2. Enter the search condition press 'count hits' from the query menu of the form

It will tell you no of records that will be retrieved when you execute the query.

#### **7.8 REPORT GENERATION: -**

To generate reports select the report option from the main menu. A sub menu will be displayed, where different options are listed. Select required one and answer the dialog box if any. Reports will be generated, it can be printed on the paper as well as displayed on the screen.

### ***7.9 SECURITY IMPLIMENTATION: -***

The **ORACLE** user requires **DBA** privileges in order to create, shut down, starts up and connects to the database. So the member of the **DBA** group automatically gives user privileges. When he/she access the **SQL DBA**, looks for the group membership of the account. If the user is in **DBA** group access is granted to the system privileges functions. If not, then only the monitory and queering functions of **SQL \*DBA** can be accessed.

Before running the application, the **ORACLE** database must be started up and the blue box like icon appears on the status line of the desktop and after closing the application, database should be shutdown properly. If database is not shutdown after exciting from the project application, the chances of its being corrupted becomes high.

Help is provided to help the user. Go to the help option where user guide is provided along with the brief introduction of the project.

### ***7.10 Special Consideration: -***

The system has been developed in oracle/developer 2000 window95 based. So to operate the system it is necessary that the user must have enough knowledge of windows95. Every user must have a login account and password assigned to him by the system administrator. Then he has the authority to access the system. The system should be carefully shutdown and database should be dismounted properly, otherwise it will result loss in data.

## APPENDIX-A

### SCREEN SHOTS OF SWITCH BOARDS

Developer/2000 Forms Runtime for Windows 95 / NT [WINDOW0] [X] [Y]  
Action Edit Block Field Record Query Window Help [X] [Y]

WELCOME  
TO  
COMPUTERIZED SYSTEM OF I M C B. F. 10/3,IBD

ADMISSION/WITHDRAWAL SYSTEM
DUES DEPOSITE SYSTEM
EXAMINATION SYSTEM
CURRICULAR ACTMTIES
CO-CURRICULAR ACTMTIES
SYSTEM QUERRIES
SYSTEM REPORTS
EXIT

Count: \*0

### ADMISSION AND WITHDRAWAL SYSTEM

<input type="button" value="ADMISSION RECORD"/>	
<input type="button" value="ADMISSION TEST RECORD"/>	<input type="button" value="WITHDRAWAL RECORD"/>
<input type="button" value="DATA ENTRY FOR RELIGION CODES"/>	
<input type="button" value="DATA ENTRY FOR NATIONALITY CODES"/>	<input type="button" value="DATA ENTRY CONDITION CODES"/>
<input type="button" value="DATA ENTRY FOR CLASS CODES"/>	
<input type="button" value="DATA ENTRY FOR SECTION CODES"/>	<input type="button" value="DATA ENTRY LEAVING STATUS"/>
<input type="button" value="DATA ENTRY FOR SHIFT CODES"/>	
<input type="button" value="DATA ENTRY FOR HOUSE ALLOCATION"/>	
	<input type="button" value="GO BACK"/>

## DUES DEPOSITE SYSTEM

DATA ENTRY FOR DUES DEPOSITE RECORD

DATA ENTRY FOR DUES HEADS

GO BACK

Count: 0



## EXAMINATION SYSTEM OF I. M. C. B. F-10/3 ISLAMABAD

*STUDENTS RESULT RECORD*

*DATA ENTRY FOR DATE SHEET*

*DATA ENTRY FOR DUTY LIST*

*EXAMINATION HALL DESCRIPTION*

*DATA ENTRY FOR TIMINGS CODE*

*DATA ENTRY FOR EXAM CODES*

*DATA ENTRY FOR ROOM NOS*

*DATA ENTRY FOR PROMOTION TO NEXT CLASS*

*GO BACK*

Count: \*0

**DATA ENTRY FOR CURRICULAR ACTIVITIES RECORD**

A vertical menu of options for data entry, enclosed in a circle. The options are:

- STUDENT'S ATTENDANCE RECORD
- CLASS INCHARGES DETAIL
- DATA ENTRY FOR SUBJECT CODES
- DATA ENTRY FOR TEACHERS ID
- TIME TABLE RECORD
- GO BACK

Count: \*0

*DATA ENTRY  
FOR  
COCURRICULAR ACTIVITIES  
RECORD*

CO\_CURRICULAR ACTMTIES RECORD

DATA ENTRY FOR COMPETITION HEADS

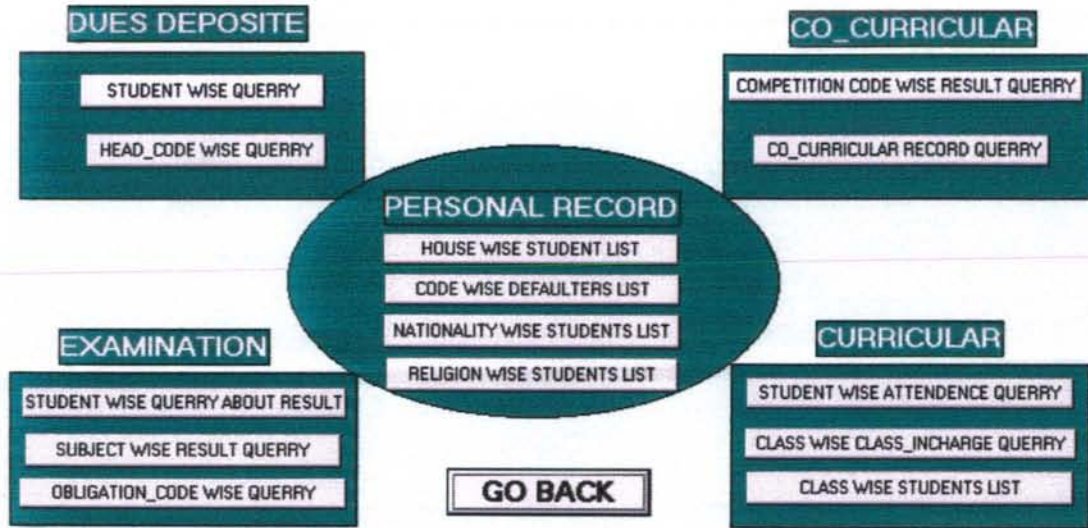
DATA ENTRY FOR COMPETITION TYPE CODES

GO BACK

Count: \*0



### QUERY SYSTEM



JUST PRESS A BUTTON TO GET A REPORT

SUBJECT WISE RESULT	STUDENT'S CLASS WISE LIST	EXIT
STUDENT'S RESULT CARD	REPORT OF DUES DEPOSITTED	
PASS/FAIL STUDENT'S LIST	STUDENT'S ATTENDANCE	
STUDENT'S PROMOTION REPORT		

# APPENDIX-B

## DATA ENTRY FORMS

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

Action Edit Block Field Record Query Window Help

### ADMISSION FORM FOR I. M. C. B. F-10/3 ISLAMABAD

Add No	<input type="text"/>	St Name	<input type="text"/>
Dob	<input type="text"/>	Pob	<input type="text"/>
Nat Code	<input type="text"/>	Relgn Code	<input type="text"/>
F Name	<input type="text"/>	F Occu	<input type="text"/>
Ph Res	<input type="text"/>	Ph OFF	<input type="text"/>
Present Address	<input type="text"/>	Permanent Address	<input type="text"/>
Add Dt	<input type="text"/>	Class Id	<input type="text"/>
Sec Id	<input type="text"/>	Hs Id	<input type="text"/>
Shift Id	<input type="text"/>	Sic Issue Dt	<input type="text"/>

<< < > >> Query Save

Count: \*0

**DATA ENTRY FOR CLASS CODES**

**CLASS\_ID**    **CLASS\_NAME**

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

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

**SCHOOL LEAVING CERTIFICATE ISSUE RECORD**

<b>SLC NO</b>	<b>Add No</b>	<b>Add Dt</b>	<b>Shift</b>	<b>Class</b>	<b>Sec</b>
101					
	<b>Lvg Dt</b>	<b>Slc Dt</b>	<b>Condn</b>	<b>Lvg Sts</b>	

<< < > >> Query Save

Count: \*0





### DATA ENTRY FOR DUES HEAD CODES

<b>hd Code</b>	<b>Detail</b>	<b>amt</b>
102	TUITION FEE	120
103	STUDENT FUND	100
104	LIBRARY SECURI	100
105	EXAMINATION F	100
106	COMPUTER FUN	50
107	STUDENT DIARY	25
108	RESULT CARD	25
109	IDENTITY CARD	25
110	LATE PAY FINE	
101	ADMISSION FEE	1000

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

Count: \*10

### STUDENTS RESULT RECORD

S No	Add No	St Name	Sessn	Shi	Class	Sec	Exam subj Code id	max marks	Obt Marks	Perc	Status
1	1123	MUHAMMAD ABDUL RAFAY	2002-03	M	1	A	3RD ENG	50	45	90	P
2	1127	MUHAMMAD SALEH	2002-03	M	1	A	3RD ENG	50	48	96	P
3	1123	MUHAMMAD ABDUL RAFAY	2002-03	M	1	A	3RD URD	50	46	92	P
4	1123	MUHAMMAD ABDUL RAFAY	2002-03	M	1	A	3RD MAT	50	50	100	P
5	1123	MUHAMMAD ABDUL RAFAY	2002-03	M	1	A	3RD S.ST	100	98	98	P
6	1127	MUHAMMAD SALEH	2002-03	M	1	A	3RD MAT	100	100	100	P
7	2071	NOMAN MALIK	2002-03	M	3	A	3RD G.SC	100	38	38	F
8	1295	AAMIR GHAFFAR	2002-03	M	5	A	3RD ISL	100	68	68	P
9	2071	NOMAN MALIK	2002-03	M	3	A	3RD ENG	100	94	94	P
10			2002-03					100			

DATA ENTRY FOR EXAMINATION HALL DESCRIPTION

Exam Code	Sessn	Room No	Timings Code	Date	Add No	Class	Sec	Shi	Subj	I	Tchr	Id	Oblg Code
1ST	2002-03	1	1ST	04-MAR-03	1296	5		A	M	ENG	101	7	
3RD	2002-03	1	1ST	04-MAR-03	1296	5		A	M	ENG	101	1	
1ST	2002-03	1	1ST	07-MAR-03	1299	5		A	M	G SC	103	7	
1ST	2002-03	3	2ND	07-MAR-03	1299	5		A	M	G IN	103	7	
1ST	2002-03	4	2ND	09-MAR-03	1295	5		A	M	S ST	103	6	
2ND	2002-03	3	1ST	09-MAR-03	1296	5		A	M	MAT	106	3	

<< < > >> Query Save

Find

Exam Cor	Exam Name
1ST	FIRST TERM EXAM
2ND	SECOND TERM EX
3RD	THIRD TERM EXAM

**DATA ENTRY FOR PROMOTION TO NEXT CLASS**

S No  Add No  St Name   
Exam Code  Sessn  Shift Id  Class Id  Sec Id

Tot Max   
Tot Obt   
Perc   
Grade   
Status

Print Class  Print Sec  Date

<< < > >> Query Save

**DATA ENTRY FOR ATTENDANCE RECORD**

S No	Sessn	Add No	Student name	Shi	Class	Sec	Month	For	mntH	Prsnt	Abst	Lv
1	2002-03	2071	NOMAN MALIK	M	3	A	AUG	5	5	0	0	
3	2002-03	1295	AAMIR GHAFFAR	M	5	A	AUG	5	5	0	0	
4	2002-03	1296	QASIM MATLOOB	M	5	A	AUG	5	5	0	0	
2	2002-03	1123	MUHAMMAD ABDUL RAFAY	M	1	A	AUG	5	4	0	1	
5	2002-03	1298	AQIB JAVED	M	5	A	AUG	5	4	1	0	
6	2002-03	1299	UMAR KHALID	M	5	A	AUG	5	5	0	0	
7	2002-03	1889	UZAIR ATTIQ	M	2	A	AUG	5	4	1	0	
9	2002-03	2100	RAHEEL AHMED	M	3	A	AUG	5	5	0	0	
10	2002-03	1123	MUHAMMAD ABDUL RAFAY	M	1	A	SEP	20	19	1	0	
11	2002-03	1127	MUHAMMAD SALEH	M	1	A	SEP	20	20	0	0	

<<	<	>	>>	Query	Save	<b>EXIT</b>
----	---	---	----	-------	------	-------------

Count: 10    v

**DATA ENTRY FOR CLASS INCHARGE RECORD**

Sessn	Shi	Class	Sec	Tchr Id
2002-03	M	1	A	101
2002-03	M	2	A	103
2002-03	M	3	A	103
2002-03	M	4	A	104
2002-03	M	5	A	102



<<	<	>	>>	Query	Save	<b>EXIT</b>
----	---	---	----	-------	------	-------------

Count: 5    v

DATA ENTRY FOR COMPETITION CODES

COMP CODE		DETAIL OF COMPETITION CODES	
101		NAAT COMPETITION	
102		MIRAT COMPETITION	
103		URDU SPEECH COMPETITION	
104		ENGLISH SPEECH COMPETITION	
105		URDU DEBATE COMPETITION	

<< < > >> Query Save

Count: 5    v



## APPENDIX-C MASTER DETAIL QUERY FORMS

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]      \_[e] x  
 Action Edit Block Field Record Query Window Help      \_[e] x

**HOUSE**

House Code:       House Name:

Add No	Student Name	Father's Name	Class	Sec	Shift
1122	MUHAMMAD ABUL RAFAY	AMIR HAMEED KIANI	1	A	M
1127	MUHAMMAD SALEH	AMIR HAMEED KIANI	1	A	M
1305	UMAR AFTAB	AFTAB AHMED	1	A	E
1215	UMAR KHALID	KHALID MEHMOOD	1	A	E
1555	AMAD AHMED	KHALID MEHMOOD	1	A	E

<<
<
>
>>
Query
Save

Count: 1      v



**NATIONALITY**

Nat_Code	Detail
PAK	PAKISTANI

Add No	Student Name	Father's Name	Class	Section	Shift
1123	MUHAMMAD ABDUL RAFAY	AMIR HAMEED KIANI	1	A	M
1127	MUHAMMAD SALEH	AMIR HAMEED KIANI	1	A	M
795	ABID GHAFQOR	MUHAMMAD GHAFQOR	1	A	M
1295	SAMIR GHAFFAR	ABDUL GHAFFAR	1	A	M
1296	DASIM MATLOOB	MATLOOB HUSSAIN	1	A	M
1298	AQIB JAVED	JAVED IQBAL	1	A	M
1299	LIMAN KHALID	KHALID MEHMOOD	1	A	M
1305	LIMAN AFTAB	AFTAB AHMED	1	A	E
1889	UZAIR ATTIQ	ATTIQ-UR-REHMAN	1	A	M
2071	NOGMAN MALIK	SAJAWAL KHAN	1	A	M

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

COMPETITION

Compt C                      Detail

S No	Sessn	Add No	Class	Sec	Shi	Hs	Type	Co	Dt	Judge1	Judge2	Judge3	Tot	Mar	Pos

<<   <   >   >>   Query   Save   EXIT

## APPENDIX-D

### REPORTS

Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW0]  
Action Edit Block Field Record Query Window Help

PASS\_FAIL: Previewer  
File Edit Window Help  
Prev Next First Last Page:  Print Mail Close New

**LIST OF PASSED AND FAILED STUDENTS**

Sessn	St Name	Add No	Class	Section	Shift	Stat
2002-03	MUHAMMAD ABDUL RAFAY	1123	1	A	M	PASS
2002-03	MUHAMMAD ABDUL RAFAY	1123	1	A	M	PASS
2002-03	MUHAMMAD SALEH	1127	1	A	M	PASS
2002-03	AAMIR GHAFFAR	1295	5	A	M	PASS

Working...  
Count: 0

Developer/2000 Reports Designer for Windows 95 / NT - [class\_list: Previewer]

File Edit Window Help

Prev Next First Last Page: 1 Print Mail Close New

### STUDENT'S CLASS WISE LIST

<u>Sessn</u>	<u>Add No</u>	<u>St Name</u>	<u>Class</u>	<u>Sec</u>	<u>Shift</u> :
2002-03	1123	MUHAMMAD ABDUL RAFAY	1	A	M
2002-03	1123	MUHAMMAD ABDUL RAFAY	1	A	M
2002-03	1127	MUHAMMAD SALEH	1	A	M
2002-03	1889	UZAIR ATTIQ	2	A	M

Developer/2000 Reports Designer for Windows 95 / NT - [attendance\_rpt. Preview] [X] [Y]

File Edit Window Help [X] [Y]

Prev Next First Last Page: 1 Print Mail Close New

### STUDENT'S ATTENDANCE REPORT

Sessn	Shift	Add No	St Name	Class	Section	Attendance for month	Prsnt	Abst	Lv	Month
2002-03	M	1123	MUHAMMAD ABDUL RAFAY	1	A	5	4	0	1	AUG
2002-03	M	1889	UZAIR ATTIQ	2	A	5	4	1	0	AUG
2002-03	M	2071	NOMAN MALIK	3	A	5	5	0	0	AUG
2002-03	M	2100	RAHEEL AHMED	3	A	5	5	0	0	AUG
2002-03	M	1295	AAMIR GHAFFAR	5	A	5	5	0	0	AUG

NEW CLASS: Previewer										
File Edit Window Help										
Prev	Next	First	Last	Page:	1	Print	Mail	Close	New	
<b><u>STUDENT'S PROMOTION TO NEW CLASS</u></b>										
<b>Add No</b>	<b>2071</b>	<b>St Name</b>	<b>NOMAN MALIK</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
<b>Add No</b>	<b>1295</b>	<b>St Name</b>	<b>AAMIR GHAFFAR</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
2002-03	5	A	100	68	68	B	PASS	6	A	
<b>Add No</b>	<b>1296</b>	<b>St Name</b>	<b>QASIM MATLOOB</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
<b>Add No</b>	<b>1123</b>	<b>St Name</b>	<b>MUHAMMAD ABDUL RAFAY</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
2002-03	1	A	250	239	95.6	A	PASS	2	A	
2002-03	1	A	250	239	95.6	A	PASS	2	A	
<b>Add No</b>	<b>1298</b>	<b>St Name</b>	<b>AQIB JAVED</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
<b>Add No</b>	<b>1299</b>	<b>St Name</b>	<b>UMAR KHALID</b>	<b>Shift</b>	<b>M</b>					
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Promt Class</u>	<u>Promt Sec</u>	
<b>Add No</b>	<b>1889</b>	<b>St Name</b>	<b>UZAIR ATTIQ</b>	<b>Shift</b>	<b>M</b>					

STUDENT'S PROMOTION TO NEW CLASS

<b>Add No</b>	2071	<b>St Name</b>	NOMAN MALIK	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
<b>Add No</b>	1295	<b>St Name</b>	AAMIR GHAFFAR	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
2002-03	5	A	100	68	68	B	PASS	6			A
<b>Add No</b>	1296	<b>St Name</b>	QASIM MATLOOB	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
<b>Add No</b>	1123	<b>St Name</b>	MUHAMMAD ABDUL RAFAY	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
2002-03	1	A	250	239	95.6	A	PASS	2			A
2002-03	1	A	250	239	95.6	A	PASS	2			A
<b>Add No</b>	1298	<b>St Name</b>	AQIB JAVED	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
<b>Add No</b>	1299	<b>St Name</b>	UMAR KHALID	<b>Shift</b>	M						
<u>Sessn</u>	<u>Class Id</u>	<u>Sec Id</u>	<u>Tot Max</u>	<u>Tot Obt</u>	<u>Perc</u>	<u>Grade</u>	<u>Status</u>	<u>Prompt</u>	<u>Class</u>	<u>Prompt</u>	<u>Sec</u>
<b>Add No</b>	1889	<b>St Name</b>	UZAIR ATTIQ	<b>Shift</b>	M						



Developer/2000 Reports Designer for Windows 95 / NT - [subj_wisc. Previewer]													
File Edit Window Help													
Prev		Next		First		Last		Page: 1		Print	Mail	Close	New
Subj Id		ENG		Subj Name			ENGLISH			Max.	Obt.	Status	
Sessn	Exam Code	Add No	St Name	Class	I	Sec	Shift	Marks	Marks	Status			
2002-03	3RD	1123	MUHAMMAD ABDUL RAFAY	1		A	M	50	45	p			
2002-03	3RD	1127	MUHAMMAD SALEH	1		A	M	50	48	p			
2002-03	3RD	2071	NOHAN MALIK	3		A	M	100	84	p			
Subj Id		URDU		Subj Name			URDU			Max.	Obt.	Status	
Sessn	Exam Code	Add No	St Name	Class	I	Sec	Shift	Marks	Marks	Status			

Developer/2000 Reports Designer for Windows 95 / NT - [result_card.Previewer]									
File Edit Window Help									
Prev Next First Last Page: 1 Print Mail Close New									
<b><u>STUDENT'S RESULTS SHEET</u></b>									
Add No 2071 Shift : M St Name NOMAN MALIK									
Sessn	Exam Code	Add No2	Class Id	Sec Id	Subj Id	Max Marks	Obt Marks	Status	
2002-03	3RD	2071	3	A	G.SC	100	38	F	
2002-03	3RD	2071	3	A	ENG	100	84	P	
Add No 1295 Shift : M St Name AAMIR GHAFAR									
Sessn	Exam Code	Add No2	Class Id	Sec Id	Subj Id	Max Marks	Obt Marks	Status	
2002-03	3RD	1295	5	A	ISL	100	68	P	
Add No 1296 Shift : M St Name QASIM MATLOOB									

## APPENDIX-E BACHMANN DIAGRAM

**NATIONALITY**

2  
↑

RELGN_CODE	DETAIL
------------	--------

**RELIGIONS**

↑

NAT_CODE	DETAIL
----------	--------

**RELIGIONS**

2  
↑

RELGN_CODE	DETAIL
------------	--------

**CLASS**

3  
↑

CLASS_ID	CLASS NAME
----------	------------

**SECTION**

4  
↑

SEC_ID	DESCRIPTION
--------	-------------

**SHIFTS**

5  
↑

SHIFT_ID	DESCRIPTION
----------	-------------

**HOUSE**

6  
↑

HS_ID	HS_NAME
-------	---------

**STUDENT**

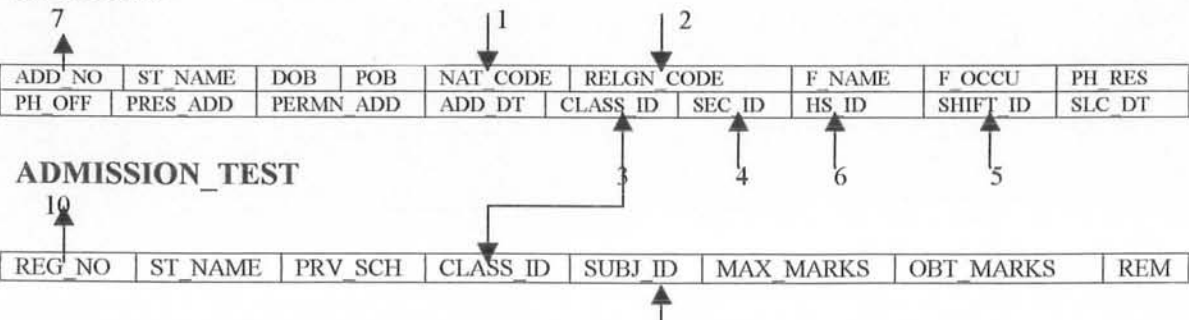
7  
↑

ADD_NO	ST_NAME	DOB	POB	NAT_CODE	RELGN_CODE	F_NAME	F_OCCU	PH_RES	
PH_OFF	PRES_ADD	PERMN	ADD	ADD_DT	CLASS_ID	SEC_ID	HS_ID	SHIFT_ID	SLC_DT

**ADMISSION\_TEST**

10  
↑

REG_NO	ST_NAME	PRV_SCH	CLASS_ID	SUBJ_ID	MAX_MARKS	OBT_MARKS	REM
--------	---------	---------	----------	---------	-----------	-----------	-----



**CONDITION**

8

9  
↑

CONDN_CODE	DESCRIPTION
------------	-------------

**LEAVING\_STATUS**

1  
↑

LVG_STS_CODE	DESCRIPTION
--------------	-------------

**SLC**

7  
↓

PAGE_NO	ADD_NO	ST_NAME	SESSN	SHIFT_ID	CLASS_ID	SEC_ID	ADD_DT	LVG_DT	SLC_DT	CONDN_CODE	LVG_STS_CODE
---------	--------	---------	-------	----------	----------	--------	--------	--------	--------	------------	--------------

**DUES\_HEAD**

12  
↑

HD_CODE	DETAIL	AMT
---------	--------	-----

**DUES**

7  
↓

12  
↓

ADD_NO	ST_NAME	SESSN	CLASS_ID	SEC_ID	SHIFT_ID	HD_CODE	AMT	MONTH	DUE_DT	PAY_DT	FINE
--------	---------	-------	----------	--------	----------	---------	-----	-------	--------	--------	------

**SUBJECTS**

8  
↑

SUBJ_ID	SUBJ_NAME
---------	-----------

**TEACHER**

13  
↑

TCHR_ID	TEACHER_NAME
---------	--------------

**EXAM**

14  
↑

EXAM_CODE	DETAIL
-----------	--------

**ROOMS**

15  
↑

ROOM_NO	DESCRIPTION
---------	-------------

**TIMINGS**

TMG_CODE	DESCRIPTION
----------	-------------

**OBLIGATION**

OVLG_CODE	DETAIL
-----------	--------

**DATE SHEET**

EXAM_CODE	SESSN	CLASS_ID	SUBJ_ID	DT	TMG_CODE
-----------	-------	----------	---------	----	----------

**DUTY\_LIST**

S_NO	EXAM_CODE	SESSN	CLASS_ID	SEC_ID	SUBJ_ID	DT	TMG_CODE	ROOM_NO	TCHR_ID
------	-----------	-------	----------	--------	---------	----	----------	---------	---------

**EXAM HALL**

S_NO	EXAM_CODE	SESSN	ADD_NO	ROOM_NO	TMG_CODE	DT	CLASS_ID	SEC_ID	SHIFT_ID	SUBJ_ID	OBLG_CODE	TCHR_ID
------	-----------	-------	--------	---------	----------	----	----------	--------	----------	---------	-----------	---------

**RESULT**

S_NO	ADD_NO	ST_NAME	SESSN	SHIFT_ID	CLASS_ID	SEC_ID	EXAM_CODE	SUBJ_ID	MAX_MARKS	OBT_MARKS	PERC	STATUS
------	--------	---------	-------	----------	----------	--------	-----------	---------	-----------	-----------	------	--------

**PROMOTION**

S_NO	ADD_NO	ST_NAME	SESSN	SHIFT_ID	CLASS_ID	SEC_ID	EXAM_CODE	SUBJ_ID	TOT_OBT	TOT_MAX	PERC	GRD	STS	PROMT_CLASS	PROMT_SEC
------	--------	---------	-------	----------	----------	--------	-----------	---------	---------	---------	------	-----	-----	-------------	-----------

**ATTENDANCE**

S_NO	ADD_NO	ST_NAME	SESSN	SHIFT_ID	CLASS_ID	SEC_ID	MONTH	ATT_FOR_MTH	PRSNT	ABST	LV
------	--------	---------	-------	----------	----------	--------	-------	-------------	-------	------	----

**CLASS\_INCHARGE**

SESSN	SHIFT_ID	CLASS_ID	SEC_ID	TCHR_ID
-------	----------	----------	--------	---------

**TIME\_TABLE**

SEESN	SHIFT_ID	CLASS_ID	SEC_ID	DAY	PERIOD	SUBJ_ID	TCHR_ID
-------	----------	----------	--------	-----	--------	---------	---------

**COMPETITION**

COMPT_CODE	DESCRIPTION
------------	-------------

**COMPT\_TYPE**

TYPE_CODE	DESCRIPTION
-----------	-------------

**CO-CURRICULAR**

S_NO	SEESN	ADD_NO	CLASS_ID	SEC_ID	SHIFT_ID	HS_ID	TYPE_CODE	COMPT_CODE	DT	JUDGE1_MARKS	JUDGE2_MARKS	JUDGE3_MARKS	TOT_MARKS	POS
------	-------	--------	----------	--------	----------	-------	-----------	------------	----	--------------	--------------	--------------	-----------	-----

