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TEACHER'S INFORMATION SYSTEM OF
FEDERAL GOVERNMENT EDUCATIONAL INSTITUTIONS

TEACHER'S INFORMATION SYSTEM OF
FEDERAL GOVERNMENT EDUCATIONAL
INSTITUTIONS

A Project Report Submitted in Partial fulfillment of the
requirement of Post Graduate Diploma in Computer Sciences

Submitted by

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ABSTRACT

The teacher's information system has been developed for FGEI. The system provides efficient means of storage and retrieval of information about the teachers of FGEI. The information is retrieved from the data base in form of queries and reports. The information stored in the database manipulated with the help of various form layout designed for the system. The developed system posses all the capabilities of relational data base.

ACKNOWLEDGEMENT

First and foremost, we are grateful to *almight Allah* whose blessings enabled us to accomplish this hard task successfully.

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We extended our appreciation to all the teachers of the faculty for thie co-operation during our studies in the University.

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FINAL APPROVAL

It is certified that in our judgment this project report "*Teacher Information System*" submitted by Mrs. Arfana Yaqub and Razia Begum of PGD (FGEI's), is of sufficient standard to warrant its acceptance by Quaid-I-Azam University, for Post Graduate Diploma in Computer Sciences:

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EXTERNAL EXAMINER:

DEDICATED TO

**Our Parents and Teachers who extended their helping hand
and efforts to make us stand where we are today**

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CHAPTER - 1

INTRODUCTION TO
ORGANIZATION

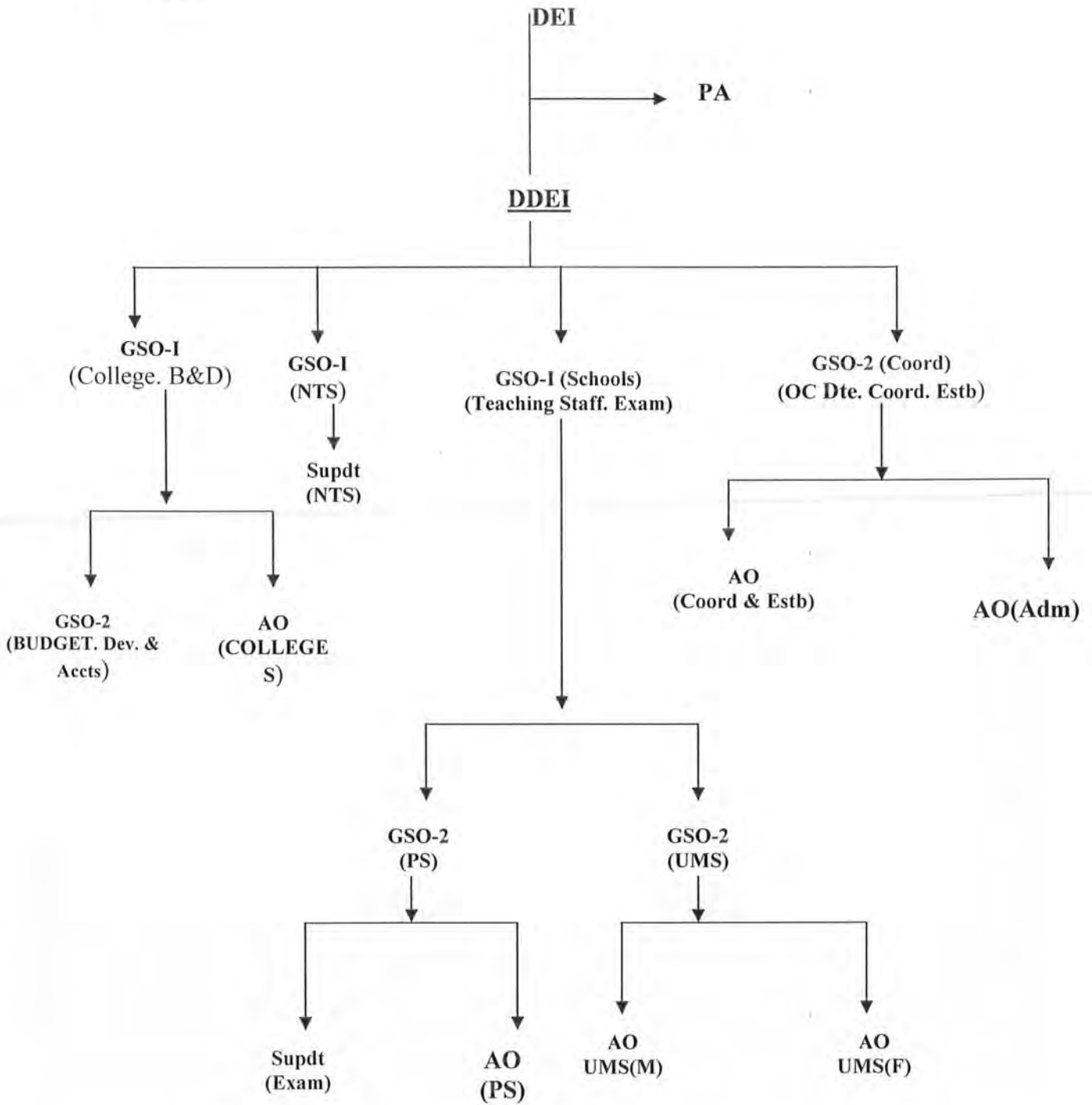
1.1 INTRODUCTION TO FGEI (C/G)

1. Educational Institution of the Cantt. Boards all over Pakistan were nationalized by the Federal Government in 1975 as the municipal institutions were provincialised. In September 1977 the administrative and financial control of these schools and colleges was transferred to Director Army Education. Subsequently in November 1981 a separate Directorate was created to deal exclusively with the affairs of the Federal Government Educational Institutions (FGEIs) in Cantts and Garrisons (C/G). This Directorate is par of GHQ and thus functions as attached department of Ministry of Defence. Director FGEI exercises administrative and financial control over the department and its employees through the authority delegated to him under the Cabinet Division letter No.104/57/77-Min-II dated 10-09-1977. This is a fundamental document which spells out the functions of this Directorate.

2. The employees of Federal Government Educational Institutions are governed by the civil service rules. They have a right to appeal before the Federal Services Tribunal, High Courts and Supreme Court against any decision. For appointment and disciplinary actions the authority of the Directorate is restricted to the employees of BPS-15 and below. For gazetted employees in BPS-16 and above the authority for regular appointments rests with the Federal Public Service Commission and for promotion and disciplinary action the authority lies totally with Secretary Ministry of Defence and Establishment Division. However, the Director FGEI has full powers of postings and transfer in respect of all categories of the civilian employees.

ORG. ROLE AND FUNCTIONS OF FGEIs DTE.
The Org. role and functions of the Dte. are as under

a. Org.



B.

Role

The Ex Adm Con over FGEIs is cantts and gars with a view to providing better adu facilities, primarily to the children of svc pers.

GOALS OF THE ORGANIZATION (FGEI's)

The main goal of the organization FGEI's is to provide educational facilities to the (C/G) children's of serving armed persons. The institutions regarding FGEI's (C/G) have been set up all over Pakistan as well as abroad to provide educational facilities to the needed lot. Also the persons relating to army as CMA MES and other concerned departments are benefiting from the institutions. The organization has generated marvelous results in the field of academic activities as well. The organization is running well with the grace of God.

The under mentioned data reflects a marked increase in quality of education and provision of educational facilities, since these institutions were taken over by the Army:-

a) **Increase in Establishment**

		1977	2001	Increase
1.	College	13	30	17
2.	Secondary Schools	106	180	74
3.	Primary Schools	61	79	18
4.	Students Strength	085 M	182 M	0.097 M
5.	Staff Strength	6040	8904	2864
6.	Uniform Personnel	43	45	2

b. **Quality of Education.**

The comparison of FGEIs overall results of last five years with board results is as follows:-

1. **Secondary School Certificate.**

	FEGI	Federal Board
1997	80%	49.9%
1998	78%	50%
1999	80%	49.95%
2000	81%	50%
2001	82%	50%

2. **Higher Secondary School Certificate**

	FGEI	Federal Board
1997	86%	64.27%
1998	83%	66.81%
1999	80%	68.49%
2000	75%	67.81%
2001	83%	65%

CHAPTER - 2

THE EXISTING SYSTEM

THE EXISTING SYSTEM

2.1 INTRODUCTION

Every organization whether small or large uses an information system to maintain the important subjects of information which are vital for its existence. So such a system should exist in every organization which maintains the updated information about its employees. This chapter describes the concept of personnel information system and the objective of the study and the existing system of FGEI's

2.2 EXISTING PERSONAL INFORMATION SYSTEM OF FGEI.

The function of personal information system is to get information about a teacher whenever required for decision making. All matters relating to the personal management such as training, promotions, postings, rewards etc are dealt with the help of teacher information system.

A personal information system is concerned with the flow of information about people working in an organization. The personal information system has many uses to management. It provides a systematic way for accumulating data that can be used to make promotional decisions at every level of management. It is mean of knowing the talent available to fill specific jobs.

The current system of FGEI is manual. Teacher's personal information like name, father's name domicile, address, date of birth, date of joining, academic records discipline etc are given in their personal files. Each teacher's file has a unique code number that is used to collect information. About teacher region wise. The administration at section uses the teacher's file code number and comes up with teacher's file to assemble necessary information.

2.3 ANALYSIS OF PRESENT SYSTEM AND NEED FOR COMPUTERIZATION.

Since the present working system is manual, so there are a lot of problems faced by the personal management department. Following are the problems and the drawbacks of present system.

2.3.1 DRAWBACKS OF THE PRESENT SYSTEM

During the system study following draw back are encountered in the present system.

1. A large number of the paper files have to be maintained by the Directorate.
2. Searching for information about a particular employee takes a lot of time.
3. The storage media is another important factor when all the information and data is being stored on papers, files and registers which are liable to be lost or destroyed. So the present system is not protected.
4. Since the present system stores data on papers, files, thus the access, updation, delete on and insertion of a record will certainly take a lot of time.
5. The present working manual system is slow cumbersome and laborious.
6. As all the data is being stored on different files and are open to different users, any unauthorized person might get access to secret information and can change it.
7. There are a large number of people who handle this system manually. This can be done by only one person if the system is computerized.
8. There is a high level of redundancy from the storage point of view in the present system. All the information stored on papers, consumes more space, which in turn causes wastage of time, stationary and manpower. In the present system, duplication, of work is also considerably high.

9. There in the manual system the risk for the loss of data is high. Keeping in view the draw backs of the present system, it is proposed that the computerization of teacher's information system is essential.

CHAPTER - 3

PROPOSED SYSTEM

3.1 INTRODUCITON

The teacher information system for FGEI has been designed after conducting a detailed study of the existing .system. The proposed system has therefore been designed keeping in mind the demands and requirements of the organization. The proposed system is computerized and has the electronic data processing, which makes the system more efficient economic, reliable, and error free. The teacher information system for FGEI is mainly concerned about personal file maintenance. New proposed system will bring some changes in the existing system to improve its performance and reliability.

3.2 SCOPE OF THE SYSTEM

The teacher's information system will be meant for the detailed information about teachers. It will provide a systematic way for gathering and organizing data. That is helpful for the management to take proper and instant decisions. Apart from containing the personal information of the teacher's. Therefore it would provide experience and qualifications of teachers. Therefore it would provide scientific way to find out right men for right jobs and right jobs for right men. The system would help that teachers are allocated specific subjects accordingly to their caliber's in order to enhance the productivity. It will also ensure the provisions of queries and reports asked by the management, which would help administrative section in efficient performance.

For a successful database, it is most important that it satisfies the user's requirements. Most projects are failed because of the unreasonable expectations attached to them. User's expectations should clearly be defined. The main goal of this project is to design and implement a system that would provide. "Teacher information system" to the management which would help them in decision-making and record management.

3.3 PROPOSED SYSTEM

- The proposed database would have the following capabilities.
- The computerized information system would have capability to maintain information about the teachers.
- The proposed system would help to identify a suitable person for training of courses, seminars and symposiums.
- It would be able to generate output reports according to the requirements of the management.
- The goal of proposed system is to keep every thing nice and simple for all users.
- The proposed system would be a comprehensive database consisting of inserting, modifications, retrieval for any data and facilities of retrieval for any data and facilities of various reports based on certain queries.
- The proposed system would be user friendly.
- It would minimize redundancy of data, which frequently occurs in non-computerized system.

3.4 THE MERITS OF THE PROPOSED SYSTEM

The merits of the proposed system are discussed below:

3.4.1 EFFICENCY

The new system is effective, as the old system is manual it is very time consuming to prepare all the documents and reports manually Data Entry is easier and much faster, because there is no need to enter the lengthy names and addresses all the time while preparing the documents.

This makes the new system much faster for insertion and deletion of data. This reduces any chance of errors by the user.

3.4.2 ACCURACY

The new system give a high degree of correctness and produces reliable results. The output are sufficiently precise for the desired purpose and there is no chance of entering wrong data because many consistency check are provided.

3.4.3. SECURITY.

By Security we mean the protection of data against unauthorized disclosure, alteration or distraction where as integrity involves insuring that the things they are trying to do is correct.

3.4.4 MODULARITY

The system is divided into a number of modules integrated together to fulfill user requirements. These modules are independent of each other. Another advantage of modularity is the ease of modification, extension and enhancement of the developed system.

3.4.5. EASE OF USE

The developed system is menu driven and very easy to use for a user having even little knowledge of data processing. Online help, proper error messages and respective error messages are provided to make the system user friendly.

3.4.6 CONSISTENCY

Uniform notation has been throughout the system. Efforts have been made to keep the data homogeneous. This has been accomplished by reducing data redundancy and data duplication.

3.4.7 CODES

Codes are designed to reduce the storage and the number of typing strokes. To eliminate any error, codes would be small and easy.

3.4.8 INTEGRITY CONSTRAINTS AND CHECKS

INSERTION

Facility of insertion of new records is also available in the software. Only the authorized persons can insert the records. There in the insertion a check is also available i.e. if user wants to insert a record and he left out column of teacher-id by a mistake or consciously, the cursor will not move to the next fill and an error message will be displayed “you have to enter the Teacher-id first” Because each teacher is identified by his/her teacher-id.

- **UPDATION**

Facilities would be provided to update the fields of the system, user may change any field of any table or file having special privileges for updation. If a record or row does not exist in the database, then the system will display “The record does not exist”.

- **DELETION**

Deletion facilities would be provided only to the authorized persons. Every one is not allowed. To delete records any DBA’s and some particular person will be authorized to delete the records. Only the responsible person would delete those records which would be unnecessary when the user/authorized person will try to delete the records an error message will be displayed “Are you sure you want to delete the record”?

- **CHECKS**

Various checks would be provided in the data entry updation and deletion modules to ensure appropriate actions, checks would be provided to make sure that no duplicate record would enter in the data base. If any user will enter duplicate record, the system will not accept record. It will raise error message. Referential checks would also be provided. This means that if user enters Teacher-id in the personal record form of the teachers, the system will check all

the existing Teacher-id in the database if the teacher-id will be available than display all the records of the teacher else displaying an error message. These checks would increase the consistency of data in the database.

3.4.9 REPORTS GENERATION

One major purpose of establishing a database is to retrieve information quickly and efficiently. The user is not bothered with the internal working of the system. He is mainly concerned with the output produced by the system. The proposed system would generate different reports accordingly to the user's requirement. The reports will also be more helpful for the management of the organization.

CHAPTER - 4

SYSTEM DESIGN

SYSTEM DESIGN

System design is the phase where quality is fostered in software development. Hence good development work depends upon good quality of design. Design changes customer's requirements into a representation of software. A software or a system is unable without a good design and fails when changes are made to it.

When details of the system become clear, design of the system was prepared. The design was discussed, modified and finalized before the actual system development was started. This helped in the succeeding stages. The system design was critically viewed to rectify and apparent design error. For this purpose input/output design discussed with management. After discussion it was finalized.

This chapter consists of input/output design phase and physical database design phase. Inputs and outputs are key parts of any system design. They are the interface between user and the database. User-interface should be well enough to easily understand by the user.

4.2 INPUT DESIGN

Input design specifies the ways in which data enters into a system for processing. Input design ensures the reliability of a system and produce results from accurate data or it may result in the output of erroneous information. Following are different mechanisms that are adopted to make the input design reliable. Input design also concerns with data control, data format and auditing.

4.2.1 CODE DESIGNING

It plays an important role where some fields have a fixed number of known values. Thus its significance can not be ignored. Codes have the following properties:-

- Save computer storage.
- Reduce chance of error.
- Reduce data entry efforts.
- Checking Code is easier.
- Uniqueness can be enforced.

Codes can be decoded and thus decoded information can be displayed for the case of the user.

4.2.2 INPUT FORM DESIGN

The most common way of data entry is form filling. Data can be retrieved, displayed and edited after using the same display. One proper form of this system is that its forms give a user friendly interface. The form layout is modeled in a manner, which resembles to the existing paper work, with users are familiar.

4.2.3 HELP LIST

A list of values is used when a particular field has more than one values. The user only needs to click on the required value, which is then displayed in the corresponding field. This approach is helpful to avoid data entry for the fields, which have fixed values. From code tables, many list of values will be provided.

4.2.4 DIFFERENT LEVEL OF ROLES/PRIVILEGES

For security purpose different level of roles and privileges has been defined to make the system more secure. So that the system will not be accessed by any unauthorized person.

4.2.5 PHYSICAL DATABASE DESIGN

The data in an oracle database is stored in tables that contain columns or fields . The tables used in this system are as follows:-

1. Region.	2. City
3. Medium	4. Category
5. Nature	6. School
7. Sex	8. Marital Code
9. Blood group	10. Domicile
11. Hobby	12. Religion
13. Sports	14. Subject-code
15. Division code	16. Designation
17. Teacher	18. Degree-code
19. Regular Education	20. Additional Education
21. Previous Job	22. Posting type
23. Posting	24. Course
25. Training	26. Promotion
27. Reward	28. Punishment
29. Retirement	30. Death
31. Relation	32. Occupation
33. Dependent	34. Children
35. Class	

(1)

Table Name : Region
Primary Key : Region-id, Region-Name
Foreign Key : Nil
Purpose : This table keeps Information about regions

Table Layout

Name	Null?	Type
Region-Id	Not Null	Number (3)
Region-Name		Char (40)

(2)

Table Name : City
Primary Key : City-Id
Foreign Key : Region-Id
Purpose : This table keeps Information about Cities.

Table Layout

Name	Null?	Type
City-Id	Not Null	Number (5)
City-Name		Char (40)
Region-Id		Number(3)

(3)

Table Name : Medium
Primary Key : Medium-Code
Foreign Key : Nil
Purpose : This table keeps Information about Medium-Code

Table Layout

Name	Null?	Type
Medium-Code	Not Null	Number (2)
Medium-Name		Char (20)

(4)

Table Name : Category
Primary Key : Cat-Code
Foreign Key : Nil
Purpose : This table keeps Information about Category of School

Table Layout

Name	Null?	Type
Cat-Code	Not Null	Number (2)
Cat-Name		Char (20)

(5)

Table Name : Nature
Primary Key : Nat-Code
Foreign Key : Nil
Purpose : This table keeps Information about Nature of School

Table Layout

Name	Null?	Type
Nat-Code	Not Null	Number (2)
Nat-Name		Char (10)

(6)

Table Name : School
Primary Key : School-Id
Foreign Key : Medium-Code, Cat-Code, Nat-Code, City-id, Region-Id
Purpose : This table keeps Information about School

Table Layout

Name	Null?	Type
School-Id	Not Null	Number (4)
School-Name		Char (40)
Medium-Code		Number-(5)
Cat-Code		Number(2)
Nat-Code		Number(2)
City-Id		Number(5)
Region-Id		Number(3)

(7)

Table Name : Sex
Primary Key : Sex-Code
Foreign Key : Nil
Purpose : This table keeps Information about Sex

Table Layout

Name	Null?	Type
Sex-Code	Not Null	Number (2)
Sex		Char (10)

(8)

Table Name : Marital Code
Primary Key : Marital-Code
Foreign Key : Nil
Purpose : This table keeps Information about Marital-Status

Table Layout

Name	Null?	Type
Marital-Code	Not Null	Number (2)
Marital-Status		Char (20)

(9)

Table Name : Blood-Group
Primary Key : Blood-Code
Foreign Key : Nil
Purpose : This table keeps Information about Blood Group of Teachers

Table Layout

Name	Null?	Type
Blood-Code	Not Null	Number (2)
Blood-Group		Char (20)

(10)

Table Name : Domicile
Primary Key : Area-Code
Foreign Key : Nil
Purpose : This table keeps Information about Area

Table Layout

Name	Null?	Type
Area-Code	Not Null	Number (2)
Area		Char (40)

(11)

Table Name : Hobby
Primary Key : Hobby-Code
Foreign Key : Nil
Purpose : This table keeps Information about Hobbies

Table Layout

Name	Null?	Type
Hobby-Code	Not Null	Number (3)
Hobby		Char (40)

(12)

Table Name : Religion
Primary Key : Religion-Code
Foreign Key : Nil
Purpose : This table keeps Information about Religions

Table Layout

Name	Null?	Type
Religion-Code	Not Null	Number (2)
Religion		Char (30)

(13)

Table Name : Sports
Primary Key : Game-Code
Foreign Key : Nil
Purpose : This table keeps Information about Sports

Table Layout

Name	Null?	Type
Game-Code	Not Null	Number (2)
Game		Char (40)

(14)

Table Name : Subject Code
Primary Key : Subject-Code
Foreign Key : Nil
Purpose : This table keeps Information about Subjects

Table Layout

Name	Null?	Type
Subject-Code	Not Null	Number (2)
Subject-Name		Char (30)

(15)

Table Name : Division Code
Primary Key : Division-Code
Foreign Key : Nil
Purpose : This table keeps Information about Division

Table Layout

Name	Null?	Type
Division-Code	Not Null	Number (2)
Division		Char (30)

(16)

Table Name : Designation
Primary Key : Designation-Code
Foreign Key : Nil
Purpose : This table keeps Information about Designation

Table Layout

Name	Null?	Type
Designation-Code	Not Null	Number (3)
Designation		Char (40)

(17)

Table Name : Teacher
Primary Key : Teacher-Id
Foreign Key : Sex-Code,Blood-Code,Marital-Code,Area-Code,Hobby-Code,Game-Code,Religion-Code,Designation-Code,School-Id,City-Id Region-Id
Purpose : This table keeps Information about Teachers

Table Layout

Name	Null?	Type
Teacher-Id	Not Null	Number (5)
Teacher-Name		Char (40)
Picture		Varchar2(80)
Father-Name	Not Null x	Char(40)
Sex-Code		Number(2)
Present-Add		Char(80)
Permanent-Add		Varchar2(80)
Passport-No.		Varchar2(50)
Fax-No.		Char(31)
Mob-No.		Char(40)
Res-Tel		Char(40)
Off-Tel		Char(40)
D-O-B		Date
Birth Place		Char(40)
Marital-Code		Number(2)
Nationality		Char(40)
Subject-Code		Number(3)
Division-Code		Number(2)

Name	Null	Type
Dependent-Name		Char(40)
NIC-No		Char(30)
Area-Code		Number(2)
Hobby-Code		Number(3)
Game-Code		Number(3)
Religion-Code		Number(3)
Joining-Date		Date
Joining-BPS		Number(2)
Designation-Code		Number(3)
BPS		Number(2)
Last-Qual		Number(4)
School-Id		Number(4)
City-Id		Number(5)
Region-Id		Number(3)

(18)

Table Name : Degree-Code

Primary Key : Degree-Code

Foreign Key : Nil

Purpose : This table keeps Information about Degree

Table Layout

Name	Null?	Type
Degree-Code	Not Null	Number (3)
Degree-Name		Char (30)

(19)

Table Name : Regular-Education
Primary Key : SRN
Purpose : This table keeps Information about Regular-Education

Table Layout

Name	Null?	Type
Designation-Code	Not Null	Number (3)
SRN	Not Null	Number(5)
Degree-Code		Number(3)
Year-of-Passing		Number(5)
Division-Code		Number(3)
Major-Subject		Char(40)
Institution		Char(40)
Distinction		Char(40)
Teacher-Id		Number(5)

(20)

Table Name : Additional-Education
Primary Key : SRN
Foreign Key : Degree-Code, Division-Code, Teacher-Id
Purpose : This table keeps Information about Additional-Education

Table Layout

Name	Null?	Type
SRN	Not Null	Number (3)
Degree-Code		Number(3)
Year-of-Passing		Number(4)
Division-Code		Number(3)

Major-Subject		Char(30)
Institution		Char(40)
Distinction		Char(40)
Teacher-Id		Number(5)

(21)

Table Name : Previous-Job
 Primary Key : SRN
 Foreign Key : Designation-Code,Teacher-Id
 Purpose : This table keeps Information about Previous Job

Table Layout

Name	Null?	Type
SRN	Not Null	Number (3)
BPS		Number(3)
Organization		Char(40)
Designation-Code		Number(3)
From-Period		Date
To-Period		Date
Teacher-Id		Number(5)

(22)

Table Name : Posting-Type
 Primary Key : Posting-Code
 Foreign Key : Nil
 Purpose : This table keeps Information about Posting Typg

Table Layout

Name	Null?	Type
Posting-Code	Not Null	Number (3)
Posting-Type		Char (40)

(23)

Table Name : Posting
Primary Key : SRN
Foreign Key : Posting-Code, Teacher-Id
Purpose : This table keeps Information about Posting

Table Layout

Name	Null?	Type
SRN	Not Null	Number (3)
BPS		Number(3)
From-School		Char(40)
To-School		Char(40)
Posting-Date		Date
Notification-Number		Char(40)
Posting-Code		Number(3)
Teacher-Id		Number(5)
Designation-Code		Number(5)

(24)

Table Name : Course
Primary Key : Course-Code
Foreign Key : Nil
Purpose : This table keeps Information about Course

Table Layout

Name	Null?	Type
Course-Code	Not Null	Number (3)
Course-Name		Char (40)

(25)

Table Name : Training
Primary Key : SRN
Foreign Key : Course-Code, Teacher-Id
Purpose : This table keeps Information about Training

Table Layout

Name	Null?	Type
SRN	Not Null	Number (3)
Title-of-Training		Char (40)
Start-Date		Date
End-Date		Date
Institution		Char(80)
Course-Code		Number(3)
Teacher-Id		Number(5)

(26)

Table Name : Promotion
Primary Key : SRN
Foreign Key : Teacher-Id
Purpose : This table keeps Information about Promotion

Table Layout

Name	Null?	Type
SRN	Not Null	Number (5)
BPS		Number(3)
Promotion-Date		Date
Notification-Number		Char(40)
Teacher-Id		Number(5)

(27)

Table Name : Reward
Primary Key : SRN
Foreign Key : Teacher-Id
Purpose : This table keeps Information about Reward

Table Layout

Name	Null?	Type
SRN	Not Null	Number (5)
Reward-Date		Date
Reward-Type		Varchar2(80)
Reward-Amt		Number(6,2)
Teacher-Id		Number(5)

(28)

Table Name : Punishment
Primary Key : SRN
Foreign Key : Teacher-Id
Purpose : This table keeps Information about Punishment

Table Layout

Name	Null?	Type
SRN	Not Null	Number (5)
Notification-Number		Char (40)
Punishment-type		Varachar2(80)
Teacher-Id		Number(5)

(29)

Table Name : Retirement
Primary Key : Retirement-Id
Foreign Key : Teacher-Id
Purpose : This table keeps Information about Retirement

Table Layout

Name	Null?	Type
Retirement-Id	Not Null	Number (5)
Notification-Number		Char (40)
Notification-Date		Date
Retirement-Date		Date
Retirement-type		Varchar2(80)
Teacher-Id		Number(5)

(30)

Table Name : Death
Primary Key : Death-Id
Foreign Key : Teacher-Id
Purpose : This table keeps Information about Death

Table Layout

Name	Null?	Type
Death-Id	Not Null	Number (5)
Death-Date		Date
Ben-Fund		Number(7,2)
Group-Ins		Number(8,2)
Family-Pension		Number(8,2)
Teacher-Id		Number(5)

(31)

Table Name : Relation
Primary Key : Relation-Code
Foreign Key : Nil
Purpose : This table keeps Information about Relation

Table Layout

Name	Null?	Type
Relation-Code	Not Null	Number (5)
Relation		Char (40)

(32)

Table Name : Occupation
Primary Key : Occupation-Code
Foreign Key : Nil
Purpose : This table keeps Information about Occupation

Table Layout

Name	Null?	Type
Occupation-Code	Not Null	Number (3)
Occupation		Char (40)

(33)

Table Name : Dependent
Primary Key : SRN
Foreign Key : Relation-Code, Occupation-Code, Teacher-Id, Sex-Code
Purpose : This table keeps Information about Designation

Table Layout

Name	Null?	Type
SRN	Not Null	Number (5)
Dependent-Name		Char (40)
Sex-Code		Number(2)
D-O-B		Date
Relation-Code		Number(5)
Occupation-Code		Number(5)
Teacher-Id		Number(5)

(34)

Table Name : Children
Primary Key : Child_Id
Foreign Key : Sex-Code, Occupation-Code
Purpose : This table keeps Information about Children

Table Layout

Name	Null?	Type
Child-Id	Not Null	Number (5)
Child-Name		Char (50)
Sex-Code		Number(2)
D-O-B		Date
Occupation-Code		Number(5)
Teacher-Id		Number(5)

(35)

Table Name : Class
Primary Key : SRN
Foreign Key : Child-Id
Purpose : This table keeps Information about Class

Table Layout

Name	Null?	Type
SRN	Not Null	Number (3)
Child-Id		Number (5)
Class		Char(40)
Institution		Char(60)

CHAPTER - 5

PROJECT DETAIL

5.1 List of Data Forms

- | | |
|----------------------|--------------------------|
| 1. Region | 2. City |
| 3. Nature | 4. Category |
| 5. Medium | 6. F.G. School |
| 7. Teacher | 8. Subject |
| 9. Course | 10. Marital-Code |
| 11. Sex | 12. Blood-Code |
| 13. Designation | 14. Division |
| 15. Domicile | 16. Hobby |
| 17. Religion | 18. Sports |
| 19. Posting-type | 20. Posting |
| 21. Reg-Education | 22. Additional-Education |
| 23. Previous-Job | 24. Training |
| 25. Promotion | 26. Reward |
| 27. Punishment | 28. Retirement |
| 29. Death | 30. Occupation-Code |
| 31. Dependent-Family | 32. Children |
| 33. Class | 34. Relation |
| 35. Occupation | |

5.2 LIST OF MASTER DETAIL FORMS

1.	MS-Region-City	2.	MS-Region-School
3.	MS-Region-Teacher	4.	MS-Nat-School
5.	MS-cat-School	6.	MS-Medium-School
7.	MS-city-School	8.	MS-City-teacher
9.	MS-School-Teacher	10.	MS-Subject-teacher
11.	MS-Course-Teacher	12.	MS-Marital-Teacher
13.	MS-Sex-Teacher	14.	MS-Blood-Teacher
15.	MS-Designation-Teacher	16.	MS-Division-Teacher
17.	MS-Domicile-Teacher	18.	MS-Hobby-Teacher
19.	MS-Religion-Teacher	20.	MS-Sport-Teacher
21.	MS-Posting Type-posting	22.	MS-Reg-Edu-Teacher
23.	MS-Add-Edu-Teacher	24.	MS-Teacher-Pre-Job
25.	MS-Teacher-Training	26.	MS-Teacher-Promotion
27.	MS-Teacher-Reward	28.	MS-Teacher-Punishment
29.	MS-Teacher-Retirement	30.	MS-Teacher-Death
31.	MS-Teacher-Children	32.	MS-Occupation-Children
33.	MS-Dependent-Occupation	34.	MS-Children-Class
35.	MS-Dependent-Relation	36.	MS-Teacher-Dependent
37.	MS-Course-Training	38.	MS-Designation-Pre_job
39.	MS-Degree-Reg-Edu	40.	MS-Division-Reg-Edu
41.	MS-Degree-Add-Qual	42.	MS-Division-Add Qual

5.3. LIST OF REPORTS

1. List of Blood Group of Teachers
2. List of B.Sc. Teachers
3. List of Teachers Citywise
4. List of Dead Teachers
5. List of Female Teachers with last qualification
6. List of Maths Teachers Region Wise
7. List of Public Schools
8. List of Urdu-Medium Schools
9. List of Male Teachers of Peshawar-Region
10. List of Teachers Id-wise
11. List of Schools Rawalpindi Region
12. List of Schools Wah Region
13. List of Schools Peshawar Region
14. List of High Schools Region No.1, 2
15. List of Primary School Region wise
16. List of Middle School City
17. List of Primary School City
18. List of Girls Schools Region wise
19. List of Boys Schools Region wise
20. List of Girls Schools city wise
21. List of Boys Schools city wise
22. List of English Medium Girls Schools
23. List of English Medium Boys Schools
24. List of Urdu Medium Girls Schools
25. List of Urdu Medium Boys Schools
26. List of Teachers Region wise
27. List of Teachers School wise
28. List of M.Sc. Teachers
29. List of Previous Job of Teachers Region wise
30. List of Previous Job of Teachers city wise
31. List of Posting of Teachers
32. List of Additional Education of Teachers
33. List of Regular Education of Teachers
34. List of Training of Teachers
35. List of Retired Teachers
36. List of Punishment of Teachers
37. List of Promotion of Teachers
38. List of Domicile of Teachers
39. List of Teacher's Sports
40. List of Teacher's Religion

- | | |
|---|--|
| 41. List of Teacher's Children | 42. List of Class of Children |
| 43. List of Children Occupation | 44. List of Teacher's dependent |
| 45. List of Physics Teachers | 46. List of Chemistry Teachers |
| 47. List of Biology Teachers | 48. List of Computer Science Teachers |
| 49. List of Punjab Teachers | 50. List of Sindh Rural Teacher |
| 51. List of Sindh Urban Teachers | 52. List of Fata Teachers |
| 53. List of NWFP Teachers | 54. List of Baluchistan Teachers |
| 55. List of AJK. Teachers | 56. List of Teachers o-blood group |
| 57. List of Christians teachers | 58. List of Hindu Teachers |
| 59. List of Married Teachers | 60. List of Cricket Players |
| 61. List of Music Lovers | 62. List of MH Road Rawalpindi School Teachers |
| 63. List of Designation of Teachers Region wise | 64. List of Principals Region wise |
| 65. List of TUGT city wise | 66. List of TGT Reigon wise |
| 67. List of MTT Teachers School wise | 68. List of PTI Region wise |
| 69. List of High Schools Teachers | 70. List of Middle Schools teachers |
| 71. List of Primary School Techers | 72. List of English Medium School Teachers |
| 73. List of Urdu Medium School Teachers | |

CHAPTER - 6

USER'S GUIDE

USER GUIDE

6.1. INTRODUCTION

The user guide is provided to become familiar with the new system more easily and quickly. This chapter will provide a comprehensive understanding of how to operate the “Computerized personnel information system: developed for FGEL, (C/G).

- ◆ Since the system operate in a multi user environment so it requires giving them privileges, keeping backup of data etc.
- ◆ The first and the foremost step toward the system implementation is window/95 or a higher version. The next step is the installation of oracle back and where as developer/2000 is its front and Developer/2000 forms 5.0, reports 3.0.
- ◆ After the installation of oracle7 and Developer/2000, the database administrator will create users identified by their respected passwords.

6.2. GETTING STARTED

Before starting working with the front end, the user should start Oracle7 database engine. The database engine is mounted by selecting.

Start → program → personal oracle → for window 95 → start database

On clicking this option, following message will appear one by one.

- ◆ Starting up database.
- ◆ Checking Security
- ◆ Oracle7 instance started
- ◆ Database mounted

Finally a message box will appear displaying:

Oracle7 database started successfully.

Press OK to clear this message box. Now in order to logon to Developer/2000 Forms 5.0, click on;

Start → Program → Developer/2000 for window95 → Form builder

6.3. SECURITY

Before starting working with the front end, the user should enter the user name and password for the security purpose of the data base.

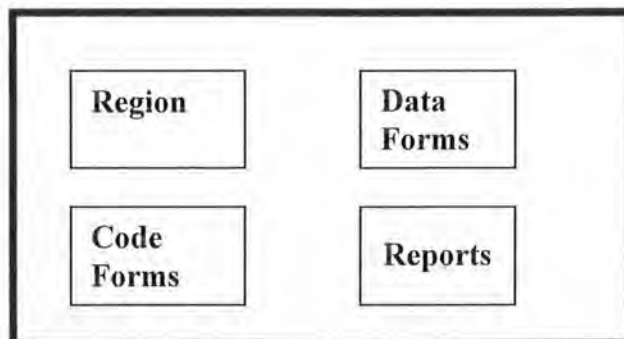
- ◆ User name
- ◆ Password
- ◆ Database

6.4 PULL DOWN MENU

To logon to main menu of :”Teacher information system” of FGEI’s select:

C:/FGEINTIS

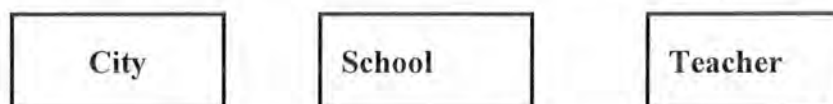
Now the user will be on main switch board. The main switch board will appear as:



6.4.1 REGION BUTTON

By clicking Region user may get information about regions of FGEI (C/G).

This form will display not only information of regions but also shows three more buttons.



If user requires city wise information about Schools, Teachers, he/she may click on city Button.

If School's information is needed whether English Medium, Urdu Medium or Girls/Boys School or whether High, Middle, Primary Schools then user has to click on School Button.

Any kind of information about teacher is provided under the button named Teacher.

6.4.2 Data Forms, Button

It consists of the following items.

1. Regions Information form
2. City's Information form
3. School's Information form
4. Teacher's Information form
5. Teacher's Regular-Education form
6. Teacher's Promotion form
7. Teacher's posting form
8. Teacher's Reward form
9. Teacher's Punishment form
10. Teacher's Retirement form
11. Teacher's Death form
12. Teacher's Training form
13. Teacher's Dependent form
14. Teacher's Children form

6.4.3 CODE FORMS BUTTON

Different code forms designed in the system will appear in the code forms as:

- Nat-Code-form (nature of Schools)
- Cat-Code-form (Category of Schools)
- Medium-Code-form (Medium of Schools)
- Designation-code form
- Area-Code form
- Blood-code form
- Sex-code form
- Marital-code-form
- Occupation-code form
- Hobby-code form
- Sports-code-form
- Course-code form
- Posting-code form

6.4.4 REPORT BUTTON

In it following options are available:

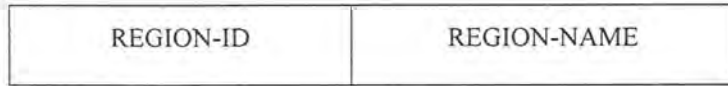
1. Personal Information report
2. Teacher's Education report
3. Teacher's Training report
4. Teacher's Posting report
5. Teacher's Reward report
6. Teacher's Punishment report

7. Teacher's Children report
8. Region wise list of school
9. City wise list of Schools
10. List of English/Urdu Schools
11. Teacher's promotion report
12. Teacher's of Rawalpindi
13. M.Sc. Teacher's report
14. Maths Teacher's Report
15. List of Principals of Peshawar Region

BACHMAN DAIGRAM

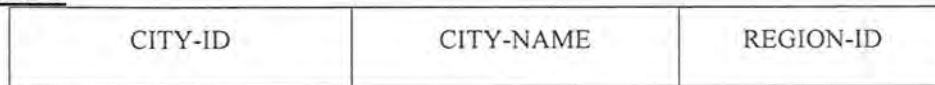
REGION

1.



CITY

2.



MEDIUM

3.



CATEGORY

4.



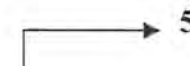
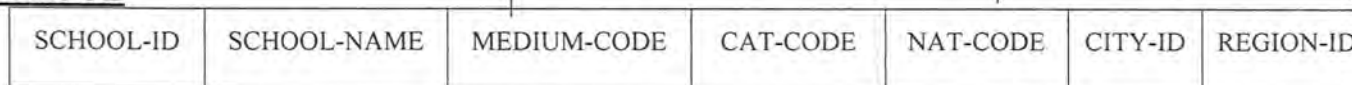
NATURE

5.



SCHOOL

6.



TEACHER

7.

Teacher-Id	Teacher-Name	Picture	Father-Name	Sex-Code	Present-Address
------------	--------------	---------	-------------	----------	-----------------

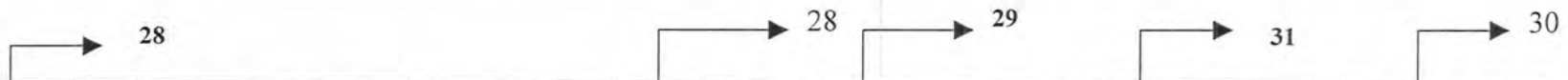


Permanent-Address	Passport-No	Fax-No	Mob-No	Res.-Tel	Office-Tel	D-O-B
-------------------	-------------	--------	--------	----------	------------	-------

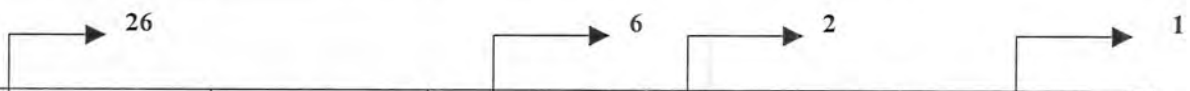
Birth-Place	Blood-Code	Marital-Code	Nationality	Subject-Code	Division-Code	Last-Qual
-------------	------------	--------------	-------------	--------------	---------------	-----------



Area-Code	Dependent-Name	NIC-No	Area-Code	Hobby-Code	Game-code	Religion-Code	Joining-Date
-----------	----------------	--------	-----------	------------	-----------	---------------	--------------



Joining-BPS	Designation-Code	BPS	School-Id	City-Id	Region-Id
-------------	------------------	-----	-----------	---------	-----------



REGULAR EDUCATION

8.

S. No	Degree-Code	Year of Passing	Division-Code	Major-Sub	Institution	Distinction	Teacher-Id
-------	-------------	-----------------	---------------	-----------	-------------	-------------	------------

Arrows indicate field lengths: Degree-Code (34), Division-Code (27), Teacher-Id (7)

ADDITIONAL-EDUCATION

9.

SRN	Degree-Code	Year of Passing	Division-Code	Major-Sub	Institution	Distinction	Teacher-Id
-----	-------------	-----------------	---------------	-----------	-------------	-------------	------------

Arrows indicate field lengths: Division-Code (27), Teacher-Id (7)

PREVIOUS JOB

10.

SRN	BPS	Organization	Designation-Code	From-Period	To-Period	Teacher-Id
-----	-----	--------------	------------------	-------------	-----------	------------

Arrows indicate field lengths: Designation-Code (26), Teacher-Id (7)

POSTING

11.

SRN	BPS	Designation-Code	From-School	To-School	Notification-No	Posting-Date	Teacher-id
-----	-----	------------------	-------------	-----------	-----------------	--------------	------------

Arrows indicate field lengths: Designation-Code (26), Teacher-id (7)

TRAINING

12.


SRN	Title of Training	Start Date	End-Date	Institution	Course-Code	Teacher-Id
-----	-------------------	------------	----------	-------------	-------------	------------

Arrows indicate field lengths: Course-Code (22), Teacher-Id (7)

PROMOTION

13.

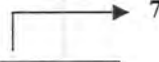
SRN.	BPS	Promotion-Date	Notification-No	Teacher-Id
------	-----	----------------	-----------------	------------



REWARD

14.

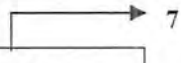
SRN.	Reward-Type	Reward-Date	Reward-Amount	Teacher-Id
------	-------------	-------------	---------------	------------



PUNISHMENT

15.


SRN	Notification-No.	Punishment-type	Teacher-Id
-----	------------------	-----------------	------------



RETIREMENT

16.

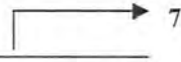
Retirement-id	Retirement-Type	Notification-No	Notification-Date	Retirement-Date	Teacher-Id
---------------	-----------------	-----------------	-------------------	-----------------	------------



DEATH

17.


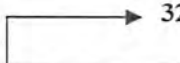


Death-Id	Death-Date	Ben-Fund	Group-Ins	Family-Pension	Teacher-Id
----------	------------	----------	-----------	----------------	------------



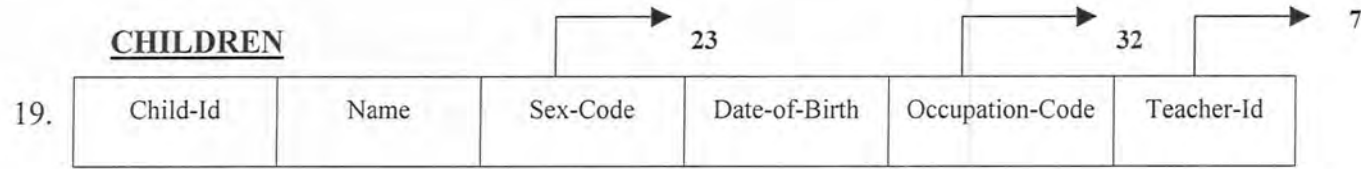
DEPENDENT

18.

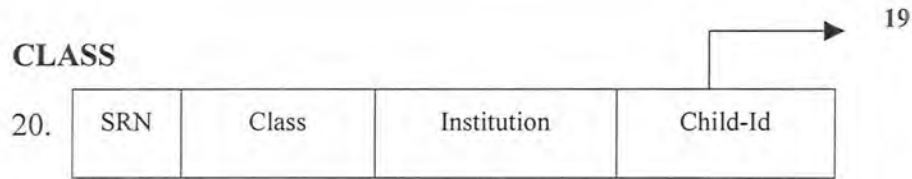
SRN	Dependent-Name	Sex-Code	Relation-Code	Date-of-Birth	Occupation-Code	Teacher-Id
-----	----------------	----------	---------------	---------------	-----------------	------------



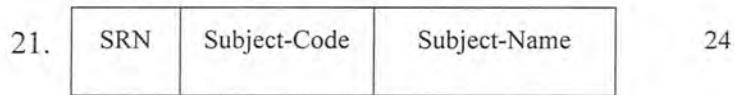
CHILDREN



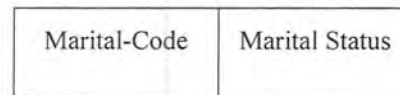
CLASS



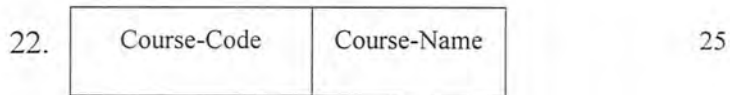
SUBJECT



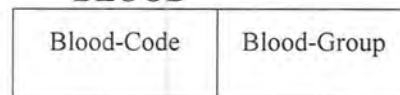
MARITAL-CODE



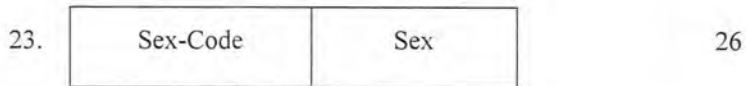
COURSE



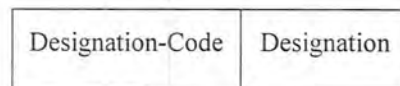
BLOOD



SEX



DESIGNATION



DIVISION-CODE

27.	Division-Code	Division
-----	---------------	----------

DOMICILE

28.	Area-Code	Area
-----	-----------	------

HOBBY

29.	Hobby-Code	Hobby
-----	------------	-------

RELATION

33.	Relation-Code	Relation
-----	---------------	----------

POSTING-TYPE

35.	Posting-Code	Posting-Type
-----	--------------	--------------

RELIGION

30.	Religion-Code	Religion
-----	---------------	----------

GAME

31.	Game-Code	Game
-----	-----------	------

OCCUPATION

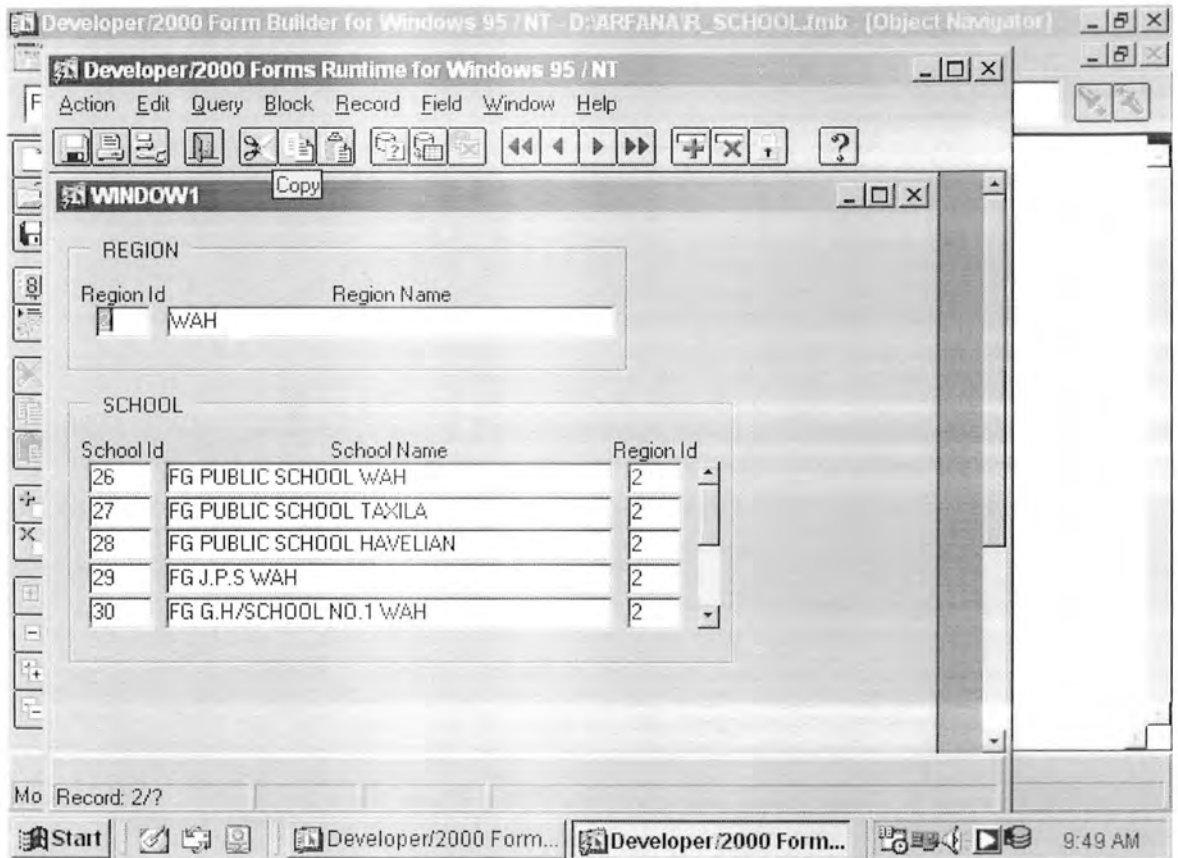
32.	Occupation-Code	Occupation
-----	-----------------	------------

DEGREE-CODE

34.	Degree-Code	Degree-Name
-----	-------------	-------------

APPENDIX





Developer/2000 Form Builder for Windows 95 / NT - D:\ARFANA\C_TEACHER.fmb . [Object Navigator]

Developer/2000 Forms Runtime for Windows 95 / NT

Action Edit Query Block Record Field Window Help

Paste

CITY

City Id City Name

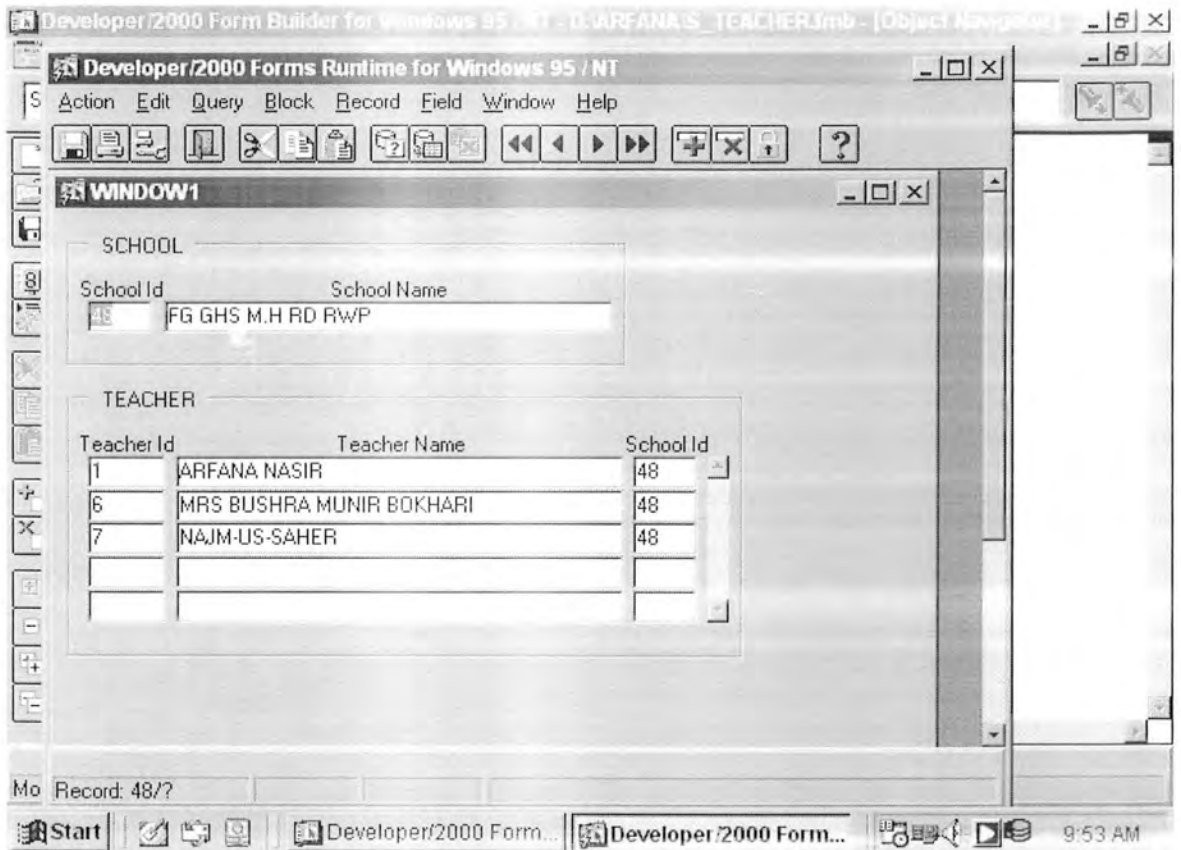
16 RAWALPINDI

TEACHER

Teacher Id	Teacher Name	Last Qual	City Id
1	ARFANA NASIR	BSC.BE	16
6	MRS BUSHRA MUNIR BOKHARI	BA B.Ed	16
7	NAJM-US-SAHER	MA B.Ed	16

Mo Record: 16/?

Start Developer/2000 Form... Developer/2000 Form... 9:39 AM





TEACHER

Teacher Id	Teacher Name	Last Qual
1	ARFANA NASIR	BSC,BEd

REGULAR_EDUCATION

Sm	Degree Code	Year Of Passing	Division Code	Major Subject	Institution	Distintion	Teacher Id
1	1	1986	1	MATHS,ENGLISH,GEN.S	GOVT GHS MUGHALAB		1
2	2	1988	1	MATHS ,STATS,ECONOM	FG COLLEGE FOR WOM		1
3	5	1990	1	MATHS,STATS,ECONOMI	FG COLLEGE FOR WOM		1
4	13	1992	2	MATHS,SCIENCE	PAF COLLEGE OF EDUC		1

FRM-40100: At first record.

Record: 1/16

Developer/2000 Form Builder for Windows 95 / NT - D:\ARFANAIT_TRAINING.fmb

Developer/2000 Forms Runtime for Windows 95 / NT

Action Edit Query Block Record Field Window Help

TEACHER

Teacher Id Teacher Name

5 MRS BUSHRA MUNIR BOKHARI

TRAINING

Srn	Title Of Training	Start Date	End Date	Institution
3	TEACHING OF MATHS AND SCIE	06-JUN-1994	16-JUN-1994	FG REG OFFICE MULT
4	TEACHING OF ENGLISH	26-JUL-1986	07-AUG-1986	FG REG OFFICE KARA

Mo Record: 6/?

Start Developer/2000 Form... Developer/2000 Form... 10:33 AM



Copy

TEACHER

Teacher Id	Teacher Name
1	ARFANA NASIR

CHILDREN

Child Id	Child Name	Sex Code	D O B	Occupation Code	Teacher Id
1	AWAIS SHAH	1	19-NOV-1995		1
2	NOOR ELLAHI SHAH	1	17-OCT-1995		1
3	FATIMA NASIR	2	12-JUL-1998		1
4	SANA_UL_REHMAN	1	01-JAN-2002		1

Record: 1/?



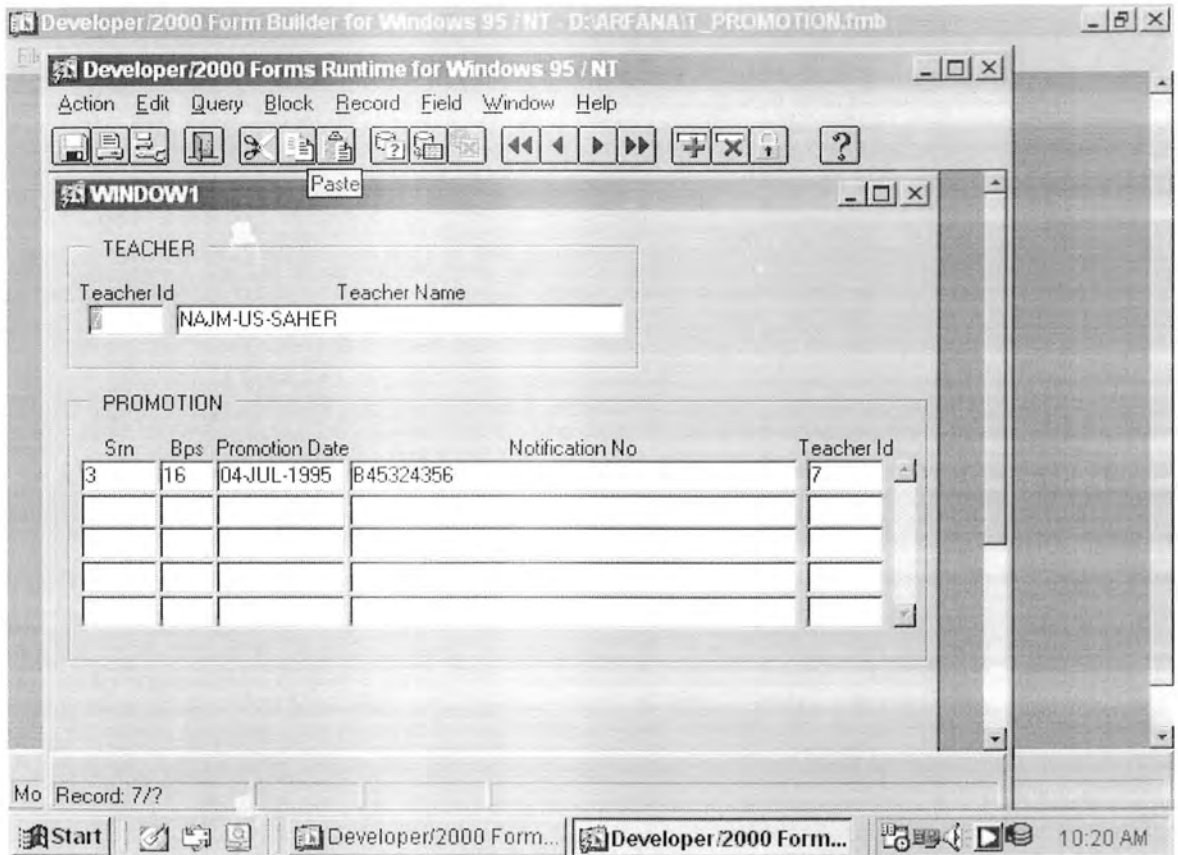
TEACHER

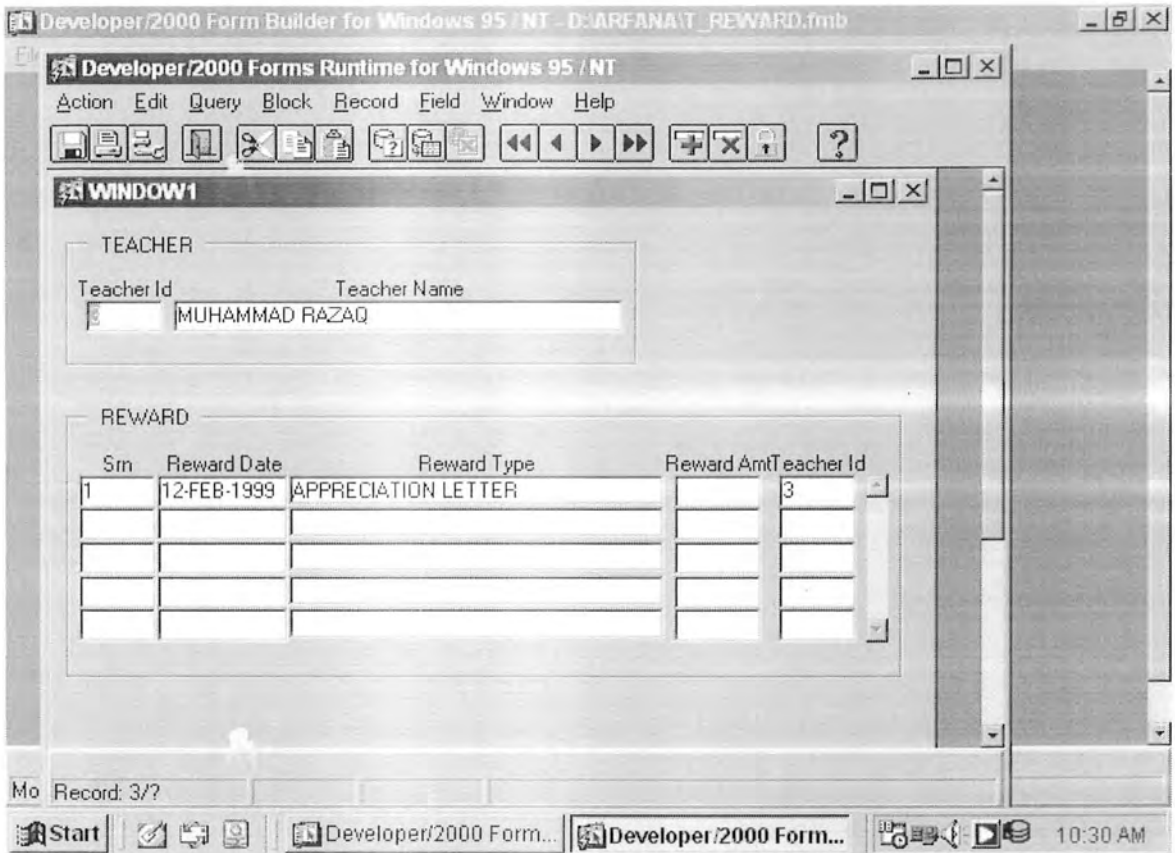
Teacher Id	Teacher Name
<input type="text" value=""/>	<input type="text" value="HADAYT-ULLAH"/>

POSTING

Srn	Bps	Designation Code	From School	To School	Posting Date	Notification No	Posting Code	Teacher Id
3	14	3	FG PS WAH	FG BHS TEXILA	15-OCT-2	C4567432	2	5

Record: 5/?





Developer/2000 Forms Runtime for Windows 95 / NT - [WINDOW1]

Action Edit Query Block Record Field Window Help

Paste

TEACHER

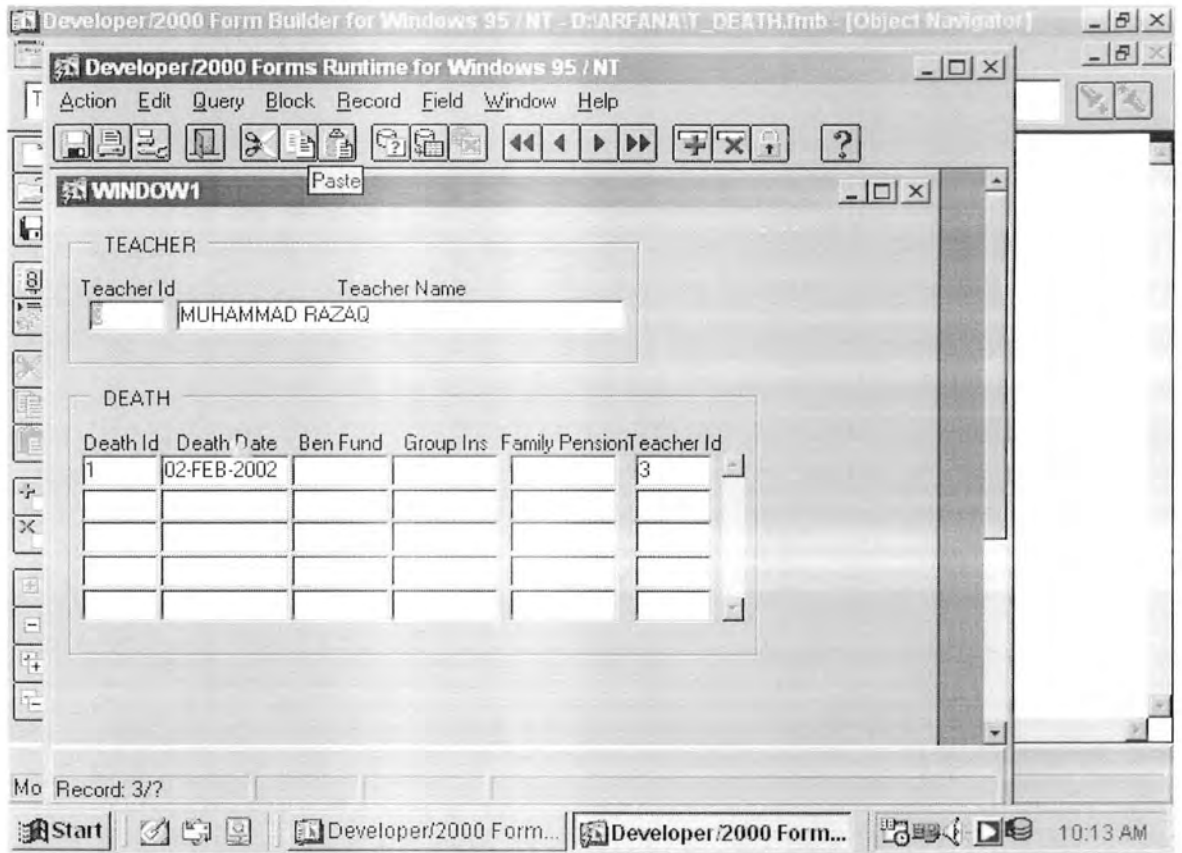
Teacher Id Teacher Name

RETIREMENT

Retirement Id	Notification No	Notification Date	Retirement Date	Retirement Type	Teacher Id
1		03-JAN-2002	26-APR-2002	ON REQUEST	2

Record: 2/?

Start Developer/2000 Form... Developer/2000 Form... 10:28 AM



Developer/2000 Report Builder for Windows 95 / NT

File Edit View Insert Format Arrange Program Tools Window Help

File A8: Report Editor - LNE Previewer

Arial 14 B I U % ,0 .0+ .0+ Page

LIST OF SCHOOLS PESHAWAR

Report run on: May 30, 1999 10:48 AM

School Id	School Name	City Name	Regi
1	FG BOYS PUBLIC SCHOOL PESHAWAR	PESHAWAR	PES
2	FG GIRLS PUBLIC SCHOOL PESHAWAR	PESHAWAR	PES
3	FG PUBLIC SCHOOL KOHAT	KOHAT	PES
4	FG PUBLIC SCHOOL THALL	THALL	PES
5	FG PUBLIC SCHOOL CHERAT	CHERAT	PES
6	FG PUBLIC SCHOOL BABACHUNAR	BABACHUNAR	PES

Start Oracle Graphics Batch Developer/2000 Repo... 10:48 AM

Developer/2000 Report Builder for Windows 95 / NT - [A2: Report Editor - Live Previewer]

File Edit View Insert Format Arrange Program Tools Window Help

Arial 12 B I U

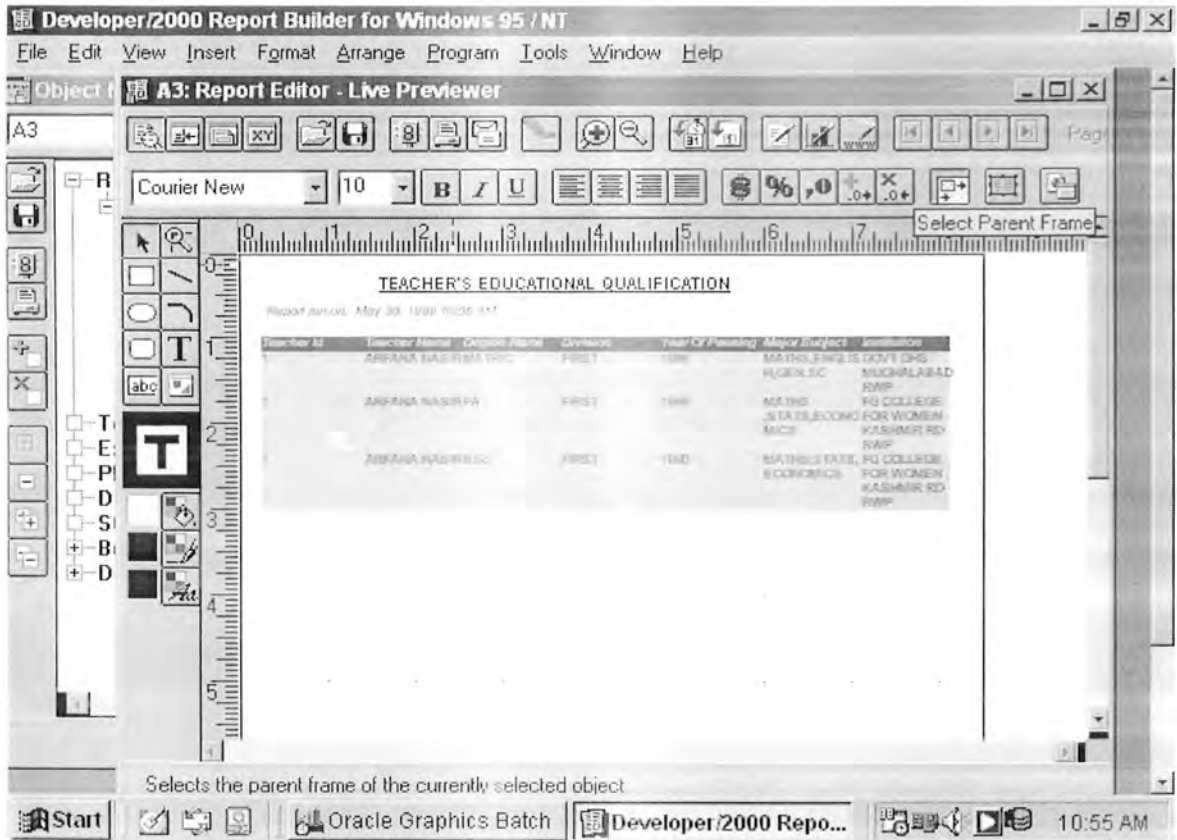
PERSONAL INFORMATION

Report run on: May 30, 1999 10:50 AM

Teacher Id	Teacher	Sex	Father	Date of Birth	Joining Date	Joining	Age	Designation	Qual/Class
1	ARFANA NASIR	FEMALE	MUHAMMAD YASIN SHAH	04-FEB-71	03-SEP-98	8	14	TKGT	BSC.Ed
2	MRS HAMEEDA BEGUM	FEMALE	OLE SHAH	09-AUG-48	11-DEC-75	9	18	TGT	MA.B.Ed
3	MUHAMMAD RAZAQ	MALE	RAMPROD	13-OCT-60	03-SEP-85	14	17	PRINCIPAL	MSC.Ed
4	EYED ZAHD ALI	MALE	EYED WAHID ALI	27-OCT-53	27-JUN-85	6	14	TKGT	MA.B.Ed
5	HADAYT ULLAH	MALE	ALLAMGAD	20-DEC-58	01-JUN-84	14	18	TGT	MSC.Ed
6	MRS BUSHRA MUNIR BOGHARI	FEMALE	EYED FAZAL GADIR SHAH	15-NOV-48	05-JUL-85	9	18	TGT	BA.B.Ed
7	NAJMA-SABER	FEMALE	MIC MUBAYYNA DAFDAL	03-NOV-57	03-AUG-80	14	18	TGT	MA.B.Ed

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RECORD OF TEACHER'S TRAINING

Report run on July 03 2009 10:57 AM Page 1

Teacher ID	Teacher Name	Course Name	Term	Start Date	End Date	Section
1	422474 HARDY	887943-04 COLAGE	72857 TEACHING	06-23-03	06-23-03	TS 800 14074 ABAS 04P
2	45146940 KATAQ	7301 COLAGE	0389780 COLAGE	06-23-03	06-23-03	Q47
3	485 913-04 88792 8287402	887943-04 COLAGE	72857 CF 8475-C A4P 032848	06-23-04	06-23-04	TS 800 09720 K4240-C
4	485 913-04 88792 8287402	887943-04 COLAGE	72857 CF 8475-C A4P 032848	06-23-04	07-4-04	TS 800 09720 K4240-C
5	143813 LAFITE	887943-04 COLAGE	71403201 E 021020	07-4-04	07-4-04	COLLEGE OF EDUCATION

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TEACHER'S POSTING RECORD Page 1

Teacher's Name	Posting Type	From School	To School	Posting Date	Post on	Designation
ASHOK KASHIR	PROMOTION	FO GPS KASHIR	FO GPS ROAD ROAD	1999-06-01	12	FO
MPS BUSPROJ SUNIC BOONARD	REQUEST	FO GPS QUETTA	FO GPS RWP	1999-06-01	12	FO



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LIST OF TEACHERS CHILDREN

Report list on: May 30, 1999 11:02 AM

Teacher id	Teacher Name	Child id	Child Name	DOB	Class	Institution
1	ARFANA NASIR	1	ARFANA NASIR	1999-05-01	7TH	FG PUBLIC SCHOOL RWP
1	ARFANA NASIR	2	NOOR ELLAH HT-OGHAE SHAH		SECOND	GATEWAY SCHOOL ALLAMA IQBAL COLONY RWP
1	ARFANA NASIR	3	FATMA NASIR YOUSUF		1	GATEWAY SCHOOL
4	SYED ZAHID ALI	7	SYED MOHIB ALI	26-DEC-98	8TH	FG BPS WAH CANTT
4	SYED ZAHID ALI	8	SYED SHESHAM ALI	29-FEB-91	7TH	FG BPS WAH CANTT
4	SYED ZAHID ALI	9	SYED HASEEB ALI	27-JAN-93	THREE	FG BPS WAH CANTT

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BIBLIOGRAPHY

- ◆ Pressman, Roger's – Software Engineering
- ◆ Oracle forms reference, Version 5.0
- ◆ Database Management System