

IS607 – Project 1

Purpose of School:

Education is an essential part of intellectual freedom and its main aim is to improve how the young students view and exist and participate in this world. It encourages sharing of ideas and experiences among students and between teachers and students, which ensures students to become better members of the community by teaching morals, ethics, science and technology, history and natural geography and critically the social responsibility.

Purpose of the database designed by me:

I designed the database to ensure that the educational achievements are recorded, reproduced and presented back to the student, community and others in a methodical way. The database captures the students and their exam details, course details, classes undergone, teachers and other related activities. I designed the following base tables which are necessary for designing any school applications

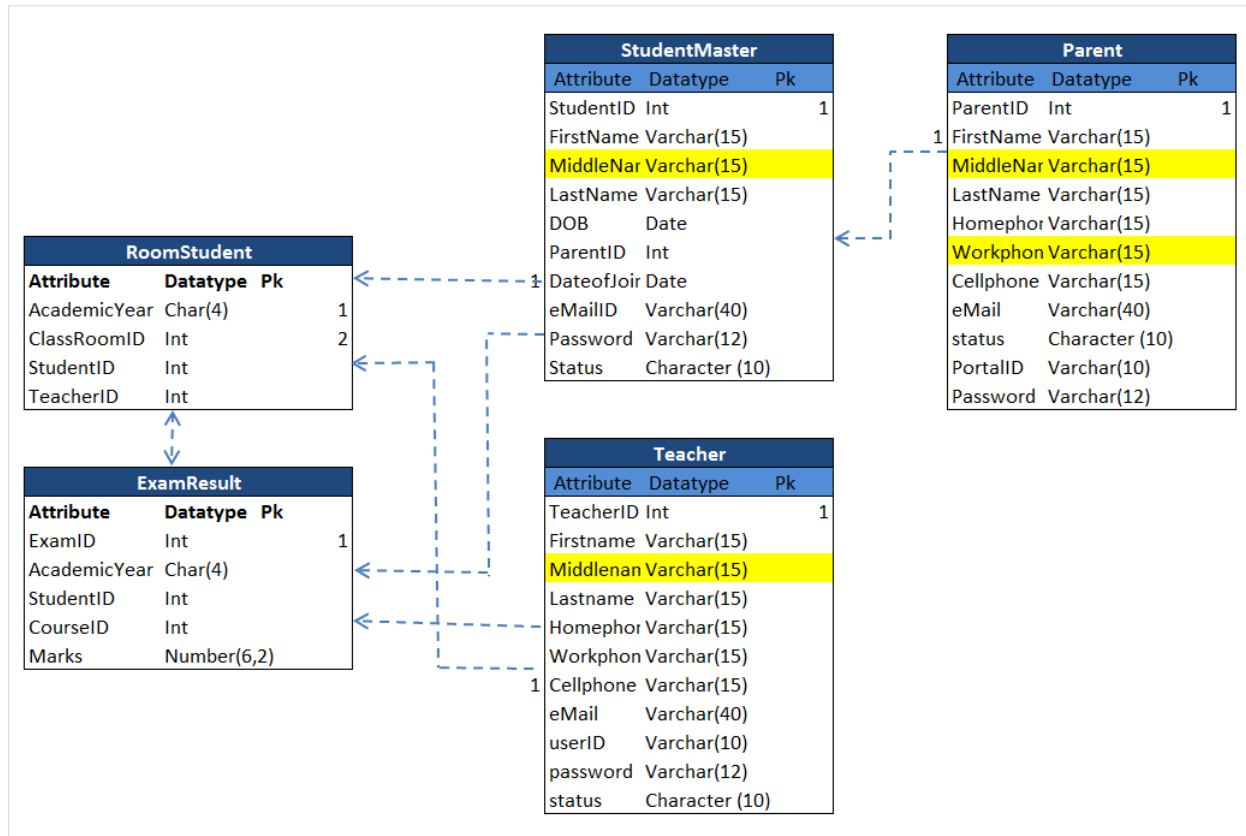
StudentMaster	Parent	Teacher
Attribute	Attribute	Attribute
Datatype	Datatype	Datatype
Pk	Pk	Pk
StudentID	ParentID	TeacherID
Int	Int	Int
1	1	1
FirstName	FirstName	Firstname
Varchar(15)	Varchar(15)	Varchar(15)
MiddleName	MiddleName	Middlename
Varchar(15)	Varchar(15)	Varchar(15)
LastName	LastName	Lastname
Varchar(15)	Varchar(15)	Varchar(15)
DOB	Homephone	Homephone
Date	Varchar(15)	Varchar(15)
ParentID	Workphone	Workphone
Int	Varchar(15)	Varchar(15)
DateofJoin	Cellphone	Cellphone
Date	Varchar(15)	Varchar(15)
eMailID	eMail	eMail
Varchar(40)	Varchar(40)	Varchar(40)
Password	status	userID
Varchar(12)	character (10)	Varchar(10)
Status	PortalID	password
character (10)	Varchar(10)	Varchar(12)
	Password	status
	Varchar(12)	Character (10)

RoomStudent	ExamResult
Attribute	Attribute
Datatype	Datatype
Pk	Pk
AcademicYear	ExamID
Char(4)	Int
1	1
ClassRoomID	AcademicYear
Int	Char(4)
2	
StudentID	StudentID
Int	Int
TeacherID	CourseID
Int	Int
	Marks
	Number(6,2)

The yellow back ground attributes can have 'NULL' values

IS607 – Project 1

ER Diagram:



Wire Frame:

Independent School District, Irving TX
School Pupil Maintenance System

Capture Student Profile

Student Details
Student First Name: Date of Birth:
Middle Name: Date of Join:
Last Name: eMail ID:

Parent Data
Parent First Name: Phone - Work:
Middle Name: Home:
Last Name: Cell:
eMail ID: Portal ID:

Short Requirement for extended functionality

The following are the high level requirements which could further be implemented in order to have a complete school application.

1. Capture attendance of individual students and provide the ability to send emails of absence to the parents. Absence should include different types such as absence, excuse, and tardy
2. Maintain course and exam master data
3. Capture complete family details including father, mother, guardian, siblings and other relevant details
4. Capture Grades of individual students
5. Capture Lunch Menu details.
6. Record Keeping System – this means provide the ability to capture and store the document images related to each student.