

# [Rdms.group project](https://assignbuster.com/rdmsgroup-project/)

Phase 2 Group Project (IT610-0802B-01: Relational Database Management Systems) Group Project Part All the four tables (entities) \_Type, Class\_Registered and Class\_Type will be used in Student Registration System. The Student table will be used to store personal records related to students such as student id, name, and type. The Student\_Type table will be used to store description for the degree program in which the student is registered such as non-degree, undergraduate, master-degree and doctor-degree. The Class\_Type table will store details for each class type such as name of class. The Class\_Registered table will be used to register students for one or multiple classes.   
The appropriate fields (Data Types) and size for each field and primary key (PK) and foreign key (FK) for each table are give below:   
Field NameData TypeField Size   
Table Name: Student   
Student\_id (PK)AutoNumberLong Integer   
Student\_nameText50   
Student\_type (FK)NumberLong Integer   
Table Name: Student\_Type   
Student\_type (PK)AutoNumberLong Integer   
Type\_DescText50   
Table Name: Class\_Registered   
Student\_id (FK)NumberLong Integer   
class\_code (FK)NumberLong Integer   
Table Name: Class\_Type   
Class\_code (PK)AutoNumberLong Integer   
class\_nameText50   
The id fields, which will be used as unique field (i. e. primary key for the table), will be taken as AutoNumber data type so that it can automatically inserted for any new records in table. For AutoNumber data type, Long Integer field size is always taken (in Microsoft Office Access). For foreign key fields, Number data type with Long Integer field size will taken so that it can be easily linked with primary key fields. For name, description fields, we will take Text data type with field size 50 character. The 50-character size will be enough for storing student name, student type description and class name.   
The Student table will be linked with tables Student\_Type. The Class\_Registered table will be linked with two tables Student and Class\_Type. The relationship between Student and Student\_Type table will be One-To-Many (1: N). The relationship between Student and Class table will be Many-To-Many (M: N) and will be represented by two relationships: One-To-Many (1: N) relationship between Student and Class\_Registered table and One-To-Many (1: N) relationship between Class\_Type and Class\_Registered table.   
References:   
Mickler, R. (2008, June). Phase 2 Commentary. Presented in class materials for IT610-0802B-01 Relational Database Management Systems.   
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Data Types, retrieved on June 10, 2008 from http://www. teacherclick. com/access2003/b\_3\_2\_2. htm