Database Tables

Data Tables:

1. Course

This table stores all the information on the course provided to students.

mysql> describ	oe course;	.	.	.	
Field		Null		Default	Extra
id name	int varchar(40) float(2,0)	NO NO NO NO YES	PRI MUL		auto_increment
5 rows in set	(0.00 sec)	+	+	+	++

2. Student

This table stores all the information on students registered

```
mysql> describe student;
                         | Null | Key | Default | Extra
 Field
           Type
 id
            int
                           NO
                                  PRI
                                        NULL
                                                  auto_increment
            varchar(40)
                           NO
                                        Student
 name
 username | varchar(20) | NO
                                        NULL
                                  UNI
 rows in set (0.00 sec)
```

3. Teacher

This table stores all the information on teachers and teaching assistants

```
mysql> describe teacher;
 Field
                         | Null | Key | Default | Extra
           Type
                                                 auto_increment
            int
                          NO
                                       NULL
                          NO
            varchar(40)
                                       Teacher
 name
            varchar(20)
                          NO
                                UNI NULL
 rows in set (0.00 sec)
```

4. Assists

This table consist of all those teachers who are also teaching assistants.

5. Takes

This table is a relation between student table and course table

6. Substitution Courses

This table consist of all those courses which a student wants to substitute with another course.

```
mysql> describe sub_course;
Field
                                                         | Null | Key | Default | Extra |
                Type
                                                                  PRI
curr_course_id |
                  int
                                                           NO
                                                                        NULL
 subn_course_id |
                  int
                                                           NO
                                                                  PRI
                                                                        NULL
 student_id
                  int
                                                                  PRI
                                                                        NULL
                  enum('PENDING','SUCCESSFULL','FAILED') | YES
                                                                        PENDING
 status
 rows in set (0.01 sec)
```

7. Addition Courses

This table consist of all those courses which a student wants to add.

```
mysql> describe add_course;
 Field
            Type
                                                     | Null | Key | Default | Extra
 course_id
                                                       NO
                                                              PRI
              int
                                                                    NULL
 student id
              int
                                                       NO
                                                              PRI
                                                                    NULL
            enum('PENDING','SUCCESSFULL','FAILED') | YES
 status
                                                                    PENDING
 rows in set (0.01 sec)
```

8. Withdrawal Courses

This table consist of all those courses which the student wants to withdraw.

```
mysql> describe withdraw_course;
 Field
            Type
                                                     | Null | Key | Default | Extra
 course_id
              int
                                                       NO
                                                              PRI
                                                                   NULL
 student id
                                                              PRI
                                                                   NULL
              int
                                                       NO
            enum('PENDING','SUCCESSFULL','FAILED') | YES
 status
                                                                   PENDING
 rows in set (0.01 sec)
```

Views:

1. myCourses:

This view shows all the courses taken by a particular student

```
mysql> describe myCourses;
                                | Null | Key | Default | Extra |
 Field
                   Type
 course_id
                    varchar(40)
                                               Course
 course_name
                                  NO
 IC_id
                    int
                                  YES
                                               NULL
 course IC
                    varchar(40)
                                  YES
                                               NULL
 course capacity
                   float(2,0)
                                  NO
                                               20
 student id
                                               NULL
                                  NO
 rows in set (0.00 sec)
```

2. myAdditions:

This view shows all the addition request applied by a student

Field	Туре	Null	Key	Default	Extra
course_id	int	NO	 	0	+
course_name	varchar(40)	NO		Course	
seats_left	float(2,0)	NO		20	
student_id	int	NO		0	
status	enum('PENDING','SUCCESSFULL','FAILED')	YES		PENDING	ĺ

3. mySubstitutions:

This view shows all the Substitution request applied by a student.

Field	Type	Null	Key	Default	Extra
course_id	int	NO		0	
course_name	varchar(40)	NO		Course	
IC_id	int	YES		NULL	
course_IC	varchar(40)	YES		NULL	
course_capacity	float(2,0)	NO		20	
student_id	int	NO		NULL	

4. myWithdrawals:

This view shows all the Withdrawal request applied by the student.

```
mysql> describe myWithdrawals;
 Field
               Type
                                                             | Null | Key | Default | Extra |
 course_id
               int
                                                              NO
                                                                             NULL
 course_name | varchar(40)
seats_left | double(2,0)
                                                              YES
                                                                             NULL
                                                              YES
                                                                             NULL
 student id
                 int
                                                              NO
                                                                             NULL
                enum('PENDING','SUCCESSFULL','FAILED')
 rows in set (0.00 sec)
```

E R Diagram

