

# **Tournament Managemnet System Database**

Database model documentation

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# 1. Model details

**Model name:**

Tournament Managemnet System Database

**Version:**

2.3

**Database engine:**

MySQL

**Description:**

## 2. Tables

### 2.1. Table user

**Description:**

All the users are here, The type column is the one that is going to decide the role of the user.

Normal users (captains) are going to be deleted after the end of every tournament.

#### 2.1.1. Columns

Column name	Type	Properties	Description
id	int	PK	id of the user
team	varchar(50)	null	The name of the team of the captain. This field is null for admin and responsables.
name	varchar(50)		full name of the user
type	int		1: admin 2: responsible 3: captain

### 2.2. Table teammates

**Description:**

This is where the Captain registers his teammates

#### 2.2.1. Columns

Column name	Type	Properties	Description
id	int	PK	id of the teammate
user_id	int		foreign key from the user table. To separate teams from each other.
name	varchar(50)		Full name of the teammate

### 2.3. Table auth

**Description:**

One of the best practices is to separate the personal information from the authentication one for better scalability and easier maintainability

#### 2.3.1. Columns

Column name	Type	Properties	Description
username	varchar(50)	PK	used for logging in

password	varchar(50)		used for logging in. Should be encrypted. Another field of salt should be added for more security but ... It is not needed.
user_id	int		to whom these informations belongs.

## 2.4. Table tournament

### Description:

We have chosen to separate these two tables (tournament and match) from the others to save as less as possible informations about the previous tournaments.

#### 2.4.1. Columns

Column name	Type	Properties	Description
id	int	PK	The Version of the current tournament
date_start	date		The date where this tournament first started
date_end	date	null	The time where the last match is played and the tournament is finished
registration_end	date		the last date where users can register their teams. Teams after the date wont be accepted

## 2.5. Table match

### Description:

Any match will be here, There are 3 cases:

- 1: a match with a date in the future, it is a planned match,
- 2: a match with a date in the past and with null score: it is in the waiting list of the responsible so he can fill the results.
- 3: a match with a date in the past and with not null values of the score: It is a match from history, gets saved for any viewer who wants to see how tournaments in the past went.

#### 2.5.1. Columns

Column name	Type	Properties	Description
id	int	PK	id of the match

tournament_id	int		to which tournament this match belongs
team_a	varchar(50)		name of one of the teams in this match
team_b	varchar(50)		name of the other team
score_a	int		the score of the first team. The responsible is the only one who can enter it.
score_b	int		the score of the second team. The responsible is the only one who can enter it.
date	date		the date where this match has/will start

## 3. References

### 3.1. Reference teammates\_user

user	0..*	teammates
id	<->	user_id

### 3.2. Reference Auth\_user

user	1..1	auth
id	<->	user_id

### 3.3. Reference match\_Tournament

tournament	0..*	match
id	<->	tournament_id