

- comentarii_profesori

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_tema_incarcata	bigint(20) unsigned	NO	MUL	NULL	
nr_exercitiu	int(11)	NO		NULL	
start_row	int(11)	NO		NULL	
end_row	int(11)	NO		NULL	
comentariu	varchar(1000)	NO		NULL	

```
comentarii_profesori | CREATE TABLE `comentarii_profesori` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_tema_incarcata` bigint(20) unsigned NOT NULL,
  `nr_exercitiu` int(11) NOT NULL,
  `start_row` int(11) NOT NULL,
  `end_row` int(11) NOT NULL,
  `comentariu` varchar(1000) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `id_tema_incarcata` (`id_tema_incarcata`),
  CONSTRAINT `comentarii_profesori_ibfk_1` FOREIGN KEY (`id_tema_incarcata`) REFERENCES `teme_incarcate` (`id`)
  ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=latin1 |
```

Tabela comentarii_profesori contine informatii despre comentariile lasate de catre profesori la temele studentilor. Fiecare inregistrare din aceasta tabela are: id, id-ul temei incarcate de catre student, numarul exercitiului pentru care este lasat comentariul, randul de inceput al comentariului, randul de sfarsit al comentariului si comentariul in sine.

- profesori

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
nume	varchar(100)	NO		NULL	
prenume	varchar(100)	NO		NULL	
email	varchar(255)	NO	UNI	NULL	

```
profesori | CREATE TABLE `profesori` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `nume` varchar(100) NOT NULL,
  `prenume` varchar(100) NOT NULL,
  `email` varchar(255) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `email` (`email`)
  ENGINE=InnoDB AUTO_INCREMENT=19 DEFAULT CHARSET=latin1
```

Tabela profesori contine informatii despre profesorii facultatii de informatica.

- conturi_conectate

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
username	varchar(30)	NO	MUL	NULL	
token	varchar(64)	NO	UNI	NULL	
creation_time	timestamp	NO		CURRENT_TIMESTAMP	on update CURRENT_TIMESTAMP

```
conturi_conectate | CREATE TABLE `conturi_conectate` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `username` varchar(30) NOT NULL,
  `token` varchar(64) NOT NULL,
  `creation_time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (`id`),
  UNIQUE KEY `token` (`token`),
  KEY `username` (`username`),
  CONSTRAINT `conturi_conectate_ibfk_1` FOREIGN KEY (`username`) REFERENCES `conturi` (`username`)
  ENGINE=InnoDB AUTO_INCREMENT=46 DEFAULT CHARSET=latin1 |
```

Tabela conturi_conectate contine informatii despre cheile pe care le au utilizatorii pentru a se loga in aplicatie. Daca un utilizator are o cheie identica cu o valoare din campul token atunci este presupus ca utilizatorul conectat are numele de utilizator campul username al acelei inregistrari. Aceste chei sunt sterse din baza de date o data la 12 ore.

- **conturi**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
email	varchar(255)	NO	UNI	NULL	
username	varchar(30)	NO	UNI	NULL	
password	varchar(64)	NO		NULL	
permission	int(11)	NO		NULL	

```
conturi | CREATE TABLE `conturi` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `email` varchar(255) NOT NULL,
  `username` varchar(30) NOT NULL,
  `password` varchar(64) NOT NULL,
  `permission` int(11) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `email` (`email`),
  UNIQUE KEY `username` (`username`)
ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=latin1
```

Tabela conturi contine informatii despre conturile utilizatorilor. Campul permission poate fi 1 - caz in care utilizatorul este student, 2 – caz in care utilizatorul este profesor, 3 – caz in care utilizatorul este admin.

- **didactic**

Field	Type	Null	Key	Default	Extra
id_materie	bigint(20) unsigned	NO	MUL	NULL	
id_profesor	bigint(20) unsigned	NO	MUL	NULL	

```
didactic | CREATE TABLE `didactic` (
  `id_materie` bigint(20) unsigned NOT NULL,
  `id_profesor` bigint(20) unsigned NOT NULL,
  KEY `id_materie` (`id_materie`),
  KEY `id_profesor` (`id_profesor`),
  CONSTRAINT `didactic_ibfk_1` FOREIGN KEY (`id_materie`) REFERENCES `materii` (`id`),
  CONSTRAINT `didactic_ibfk_2` FOREIGN KEY (`id_profesor`) REFERENCES `profesori` (`id`)
ENGINE=InnoDB DEFAULT CHARSET=latin1 |
```

Tabela didactic retine informatii despre permiuniile profesorilor asupra materiilor din aplicatie.

- plagiat

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
username1	varchar(30)	YES	MUL	NULL	
username2	varchar(30)	YES	MUL	NULL	
id_tema	bigint(20) unsigned	YES	MUL	NULL	
nr_exercitiu	int(11)	YES		NULL	
procent_plagiat	int(11)	YES		NULL	

```
plagiat | CREATE TABLE `plagiat` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `username1` varchar(30) DEFAULT NULL,
  `username2` varchar(30) DEFAULT NULL,
  `id_tema` bigint(20) unsigned DEFAULT NULL,
  `nr_exercitiu` int(11) DEFAULT NULL,
  `procent_plagiat` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `username1` (`username1`),
  KEY `username2` (`username2`),
  KEY `id_tema` (`id_tema`)
ENGINE=InnoDB DEFAULT CHARSET=latin1 |
```

Tabela plagiat contine informatii despre procentul de plagiere intre 2 exercitii de la 2 studenti diferiti. Aceasta tabela este referita in tabela hot_zone care reprezinta o impartire mai fina decat un procent de plagiat. Tabela hot_zone da in acelasi timp corelari intre randurile plagiate dintre teme.

- **hot_zone**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_plagiat	bigint(20) unsigned	YES	MUL	NULL	
start_row_user1	int(11)	YES		NULL	
end_row_user1	int(11)	YES		NULL	
start_row_user2	int(11)	YES		NULL	
end_row_user2	int(11)	YES		NULL	
procent_plagiat	int(11)	YES		NULL	

```
hot_zone | CREATE TABLE `hot_zone` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_plagiat` bigint(20) unsigned DEFAULT NULL,
  `start_row_user1` int(11) DEFAULT NULL,
  `end_row_user1` int(11) DEFAULT NULL,
  `start_row_user2` int(11) DEFAULT NULL,
  `end_row_user2` int(11) DEFAULT NULL,
  `procent_plagiat` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `id_plagiat` (`id_plagiat`),
  CONSTRAINT `hot_zone_ibfk_1` FOREIGN KEY (`id_plagiat`) REFERENCES `plagiat` (`id`)
  ENGINE=InnoDB DEFAULT CHARSET=latin1 |
```

Tabela hot_zone contine informatii despre teme care sunt potential plagate. Fiecare inregistrare din aceasta tabela are: id, id-ul perechii de studenti impreuna cu exercitiul care este suspectat de plagiat, randul de inceput de la primul student, randul de sfarsit de la primul student care este plagiat de la randul de inceput de la al doilea student pana la randul de sfarsit de la al doilea student.

- **inscrieri**

Field	Type	Null	Key	Default	Extra
id_cont	bigint(20) unsigned	NO	MUL	NULL	
id_materie	bigint(20) unsigned	NO	MUL	NULL	

```
inscrieri | CREATE TABLE `inscrieri` (
  `id_cont` bigint(20) unsigned NOT NULL,
  `id_materie` bigint(20) unsigned NOT NULL,
  KEY `id_cont` (`id_cont`),
  KEY `id_materie` (`id_materie`),
  CONSTRAINT `inscrieri_ibfk_1` FOREIGN KEY (`id_cont`) REFERENCES `conturi` (`id`),
  CONSTRAINT `inscrieri_ibfk_2` FOREIGN KEY (`id_materie`) REFERENCES `materii` (`id`)
  ENGINE=InnoDB DEFAULT CHARSET=latin1 |
```

Tabela inscrieri contine detalii despre subscriptiile conturilor la anumite materii, in special pentru studenti.

- **materii**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
titlu	varchar(100)	NO	UNI	NULL	
an	int(11)	NO		NULL	
semestru	int(11)	NO		NULL	
descriere	varchar(1000)	YES		NULL	

```
materii | CREATE TABLE `materii` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `titlu` varchar(100) NOT NULL,
  `an` int(11) NOT NULL,
  `semestru` int(11) NOT NULL,
  `descriere` varchar(1000) DEFAULT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `titlu` (`titlu`)
  ENGINE=InnoDB AUTO_INCREMENT=29 DEFAULT CHARSET=latin1
```

Tabela materii contine informatiile despre materiile create de catre profesorii aplicatiei.

- **register_links**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
email	varchar(255)	NO		NULL	
token	varchar(64)	NO	UNI	NULL	
creation_time	timestamp	NO		CURRENT_TIMESTAMP	on update CURRENT_TIMESTAMP

```
register_links | CREATE TABLE `register_links` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `email` varchar(255) NOT NULL,
  `token` varchar(64) NOT NULL,
  `creation_time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (`id`),
  UNIQUE KEY `token` (`token`)
  ENGINE=InnoDB AUTO_INCREMENT=32 DEFAULT CHARSET=latin1 |
```

Tabela register links contine informatii despre linkurile pe care utilizatorii se pot conecta pentru a isi crea cont.

- **studenti**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
nume	varchar(30)	NO		NULL	
prenume	varchar(60)	NO		NULL	
email	varchar(255)	NO	UNI	NULL	
nr_matricol	varchar(16)	NO	UNI	NULL	

```

studenti | CREATE TABLE `studenti` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `nume` varchar(30) NOT NULL,
  `prenume` varchar(60) NOT NULL,
  `email` varchar(255) NOT NULL,
  `nr_matricol` varchar(16) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `email` (`email`),
  UNIQUE KEY `nr_matricol` (`nr_matricol`)
) ENGINE=InnoDB AUTO_INCREMENT=34 DEFAULT CHARSET=latin1 |

```

Tabela studenti contine informatii despre studentii facultatii de informatica.

- **tema_exercitiu_extensie**

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_tema	bigint(20) unsigned	YES	MUL	NULL	
nr_exercitiu	int(11)	NO		NULL	
extensie_acceptata	varchar(10)	NO		NULL	
enunt	varchar(2000)	YES		NULL	

```

tema_exercitiu_extensie | CREATE TABLE `tema_exercitiu_extensie` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_tema` bigint(20) unsigned DEFAULT NULL,
  `nr_exercitiu` int(11) NOT NULL,
  `extensie_acceptata` varchar(10) NOT NULL,
  `enunt` varchar(2000) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `id_tema` (`id_tema`),
  CONSTRAINT `tema_exercitiu_extensie_ibfk_1` FOREIGN KEY (`id_tema`) REFERENCES `teme` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=33 DEFAULT CHARSET=latin1 |

```

Tabela tema_exercitiu_extensie contine informatii despre fiecare exercitiu al unei teme, cum ar fi extensie sau enunt.

- teme

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_materie	bigint(20) unsigned	NO	MUL	NULL	
deadline	timestamp	NO		CURRENT_TIMESTAMP	
enunt	varchar(1000)	NO		NULL	
nr_exercitii	int(10) unsigned	NO		NULL	
nume_tema	varchar(100)	NO		NULL	

```

teme | CREATE TABLE `teme` (
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,
  `id_materie` bigint(20) unsigned NOT NULL,
  `deadline` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `enunt` varchar(1000) NOT NULL,
  `nr_exercitii` int(10) unsigned NOT NULL,
  `nume_tema` varchar(100) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `id_materie` (`id_materie`,`nume_tema`)
  ENGINE=InnoDB AUTO_INCREMENT=110 DEFAULT CHARSET=latin1 |

```

Tabele teme contine informatii despre temele create de catre profesori.

- teme_incarcate

Field	Type	Null	Key	Default	Extra
id	bigint(20) unsigned	NO	PRI	NULL	auto_increment
id_cont	bigint(20) unsigned	NO	MUL	NULL	
id_tema	bigint(20) unsigned	NO	MUL	NULL	
data_incarcarii	timestamp	NO		CURRENT_TIMESTAMP	
nr_exercitiu	int(10) unsigned	NO		NULL	
nume_fisier_tema	varchar(255)	NO		NULL	
nota	int(11)	YES		NULL	


```
teme_incarcate | CREATE TABLE `teme_incarcate` (  
  `id` bigint(20) unsigned NOT NULL AUTO_INCREMENT,  
  `id_cont` bigint(20) unsigned NOT NULL,  
  `id_tema` bigint(20) unsigned NOT NULL,  
  `data_incarcarii` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  `nr_exercitiu` int(10) unsigned NOT NULL,  
  `nume_fisier_tema` varchar(255) NOT NULL,  
  `nota` int(11) DEFAULT NULL,  
  PRIMARY KEY (`id`),  
  KEY `id_cont` (`id_cont`),  
  KEY `id_tema` (`id_tema`),  
  CONSTRAINT `teme_incarcate_ibfk_1` FOREIGN KEY (`id_cont`) REFERENCES `conturi` (`id`),  
  CONSTRAINT `teme_incarcate_ibfk_2` FOREIGN KEY (`id_tema`) REFERENCES `teme` (`id`)  
  ENGINE=InnoDB AUTO_INCREMENT=10 DEFAULT CHARSET=latin1 |
```

Tabela teme_incarcate contine informatii despre temele incarcate de studenti.