database.md 2024-06-17

Database

create a mysql database

CREATE DATABASE markentry;

create tables

- students
- staffs
- courses
- subjects
- course_groups
- evaluation_scheme
- mark_entry

table description

• students

```
mysql> desc students;
  Field
                                Null
                                      | Key | Default |
                 Type
                                                         Extra
 student_id
                 int
                                 NO
                                        PRI
                                              NULL
                                                         auto_increment
 roll_number
                int
                                 YES
                                              NULL
 student_name
                 varchar(255)
                                 YES
                                              NULL
 course_id
                 int
                                 YES
                                        MUL
                                              NULL
  group_id
                 int
                                 YES
                                        MUL
                                              NULL
                                               NULL
  email
                 varchar(255)
                                 YES
                 varchar(255)
                                 YES
                                              NULL
  password
  role
                 varchar(50)
                                 YES
                                               student
8 rows in set (0.01 sec)
```

staff

```
Default | Extra
Field
                  | Type
                                                           Null | Key |
 staff_id
                                                            NO
                                                                         NULL
                                                                                    auto_increment
 employee_number |
                                                            YES
                                                                         NULL
 staff_name
                                                                         NULL
                    varchar(255)
                                                            YES
 email
                                                                         NULL
                    varchar(255)
                                                            YES
                    varchar(255)
                                                                         NULL
 password
                                                            YES
 role
                    enum('staff','coordinator','admin')
                                                            YES
                                                                         staff
 course_name
                    varchar(255)
                                                           YES
                                                                         DAC
7 rows in set (0.01 sec)
```

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courses

mysql> desc cour	ses;				
Field	Type	Null	Key	Default	Extra
course_id : course_name : description :	varchar(255)	NO YES YES	300	NULL NULL	auto_increment
3 rows in set (0	 .01 sec)				

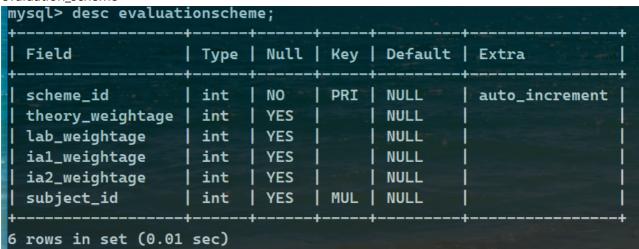
• subjects

```
mysql> desc subjects;
                              | Null | Kev | Default |
 Field
               Type
 subject_id
                                NO
                                                       auto_increment
                                            NULL
 subject_name | varchar(255)
                                YES
                                             NULL
                                     MUL NULL
 course_id
                int
                               YES
3 rows in set (0.00 sec)
```

course_groups

```
mysql> desc course_groups;
 Field
                             Null |
                                    Key | Default
              Type
 group_id
              int
                              NO
                                     PRI
                                           NULL
                                                     auto_increment
             varchar(255)
                                           NULL
 group_name
                            YES
 course_id
             int
                             YES
                                     MUL
                                          NULL
 rows in set (0.01 sec)
```

• evaluation_scheme



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mark_entry

Field	Туре	Null	Key	Default	Extra
entry_id	int	NO	PRI	NULL	auto_increment
student_id	int	YES	MUL	NULL	-
subject_id	int	YES	MUL	NULL	
group_id	int	YES	MUL	NULL	
course_id	int	YES	MUL	NULL	
staff_id	int	YES	MUL	NULL	
theory	int	YES	-	NULL	
lab	int	YES		NULL	
IA1	int	YES		NULL	
IA2	int	YES		NULL	
from_date	date	YES		NULL	The state of the s
till_date	date	YES		NULL	
approved	tinyint(1)	YES		0	200