
Student Records Management System

- Create databases students _records;
- use students _records;

table1.students:

```
create table students (  
student _id int primary key,  
name varchar (50),  
email varchar (50),  
phone_ number varchar (50),  
enrollment _date date);
```

- desc user

```
mysql> desc students;  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| student_id     | int           | NO   | PRI | NULL     |       |  
| name           | varchar(50)   | YES  |     | NULL     |       |  
| email          | varchar(50)   | YES  |     | NULL     |       |  
| phone_number   | varchar(50)   | YES  |     | NULL     |       |  
| enrollment_date | date          | YES  |     | NULL     |       |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.06 sec)
```

Insert values:

insert into students (student _id, name, email, phone _number, enrollment _date) values

(10, 'John Doe', 'john33@gmail.com', '5556612734', '2025-01-01'),

(11, 'Rahul ram', 'rahul12@gmail.com', '55530002', '2025-01-02'),

(12, 'Krishna ', 'krishna34@gmail.com', '55530003', '2025-01-03'),

(42, 'Shankar', 'shankar23@gmail.com', '55520004', '2025-01-04'),

(52, 'Prashant', 'prashant45@gmail.com', '55503005', '2025-01-05'),

```
(62, 'nursing', 'narsing13@gmail.com', '5550006', '2025-01-06'),
(72, 'Santosh', 'santosh40@gmail.com', '5550007', '2025-01-07'),
(82, 'Deepak t', 'deepak00@example.com', '55567777', '2025-01-08'),
(92, 'Avinash', 'avinash98@example.com', '124567892', '2025-01-09'),
(102, 'Maja', 'maja17@gmail.com', '1234567892', '2025-01-10'),
(103, 'Anant', 'bhandare43@gmail.com', '9080405020', '2025-01-10');
```

➤ Select * from students;

```
mysql> select * from students;
```

student_id	name	email	phone_number	enrollment_date
10	John Doe	john33@gmail.com	5556612734	2025-01-01
11	rahul ram	rahul12@gmail.com	55530002	2025-01-02
12	krishna	krishna34@gmail.com	55530003	2025-01-03
42	shankar	shankar23@gmail.com	55520004	2025-01-04
52	prashant	prashant45@gmail.com	55503005	2025-01-05
62	narsing	narsing13@gmail.com	5550006	2025-01-06
72	santosh	santosh40@gmail.com	5550007	2025-01-07
82	deepak t	deepak00@example.com	55567777	2025-01-08
92	avinash	avinash98@example.com	124567892	2025-01-09
102	Maja	maja17@gmail.com	1234567892	2025-01-10
103	anant	bhandare43@gmail.com	9080405020	2025-01-10

```
11 rows in set (0.00 sec)
```

Table2 teacher:

```
create table teachers(
teacher_id int primary key,
name varchar(50),
phone_number varchar(50),
hire_date date);
```

➤ Desc teachers;

```
mysql> desc teachers;
```

Field	Type	Null	Key	Default	Extra
teacher_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
phone_number	varchar(50)	YES		NULL	
hire_date	date	YES		NULL	

4 rows in set (0.00 sec)

Insert values:

insert into teachers (teacher_id, name, phone_number, hire_date) values

(101, 'Abdul kalam', '9080405020', '2024-12-10'),

(109, 'vikas divyankirti', '902003000', '2024-12-20'),

(108, 'sunil kumar', '123456780', '2024-12-01'),

(106, 'swami vivekananda', '1090807030', '2023-12-28'),

(105, 'madan Mohan malviy', '000001010', '2024-12-27'),

(104, 'dr a p j Abdul kalam', '0123454673', '2023-02-26'),

(112, 'rajinder singh', '9844802326', '2023-01-27'),

(113, 'anand kumar', '90987623', '2023-01-25'),

(114, 'anju dahiya', '093457791', '2024-12-23'),

(115, 'himachal pradesh', '123564456', '2024-12-24');

- Select * from teachers

```
mysql> select * from teachers;
```

teacher_id	name	phone_number	hire_date
101	abdul kalam	9080405020	2024-12-10
104	dr a p j abdul kalam	0123454673	2023-02-26
105	madan mohan malviy	000001010	2024-12-27
106	swami vivekananda	1090807030	2023-12-28
108	sunil kumar	123456780	2024-12-01
109	vikas divyankirti	902003000	2024-12-20
112	rajinder singh	9844802326	2023-01-27
113	anand kumar	90987623	2023-01-25
114	anju dahiya	093457791	2024-12-23
115	himachal pradesh	123564456	2024-12-24

```
10 rows in set (0.00 sec)
```

Table3 course:

Create table course (

course_id INT PRIMARY KEY,

course_name VARCHAR (255) NOT NULL,

teacher_id INT,

foreign key (teacher_id) references teachers (teacher_id));

```
mysql> desc course;
```

Field	Type	Null	Key	Default	Extra
course_id	int	NO	PRI	NULL	
course_name	varchar(255)	NO		NULL	
teacher_id	int	YES	MUL	NULL	

```
3 rows in set (0.01 sec)
```

Insert values

Insert into course (course_id, course_name, teacher_id) values

(1001, 'Mathematics', 101),

(1002, 'computer science', 101),

(1003, 'software engineering', 104),
 (1004, 'digital marketing', 104),
 (1005, 'English ', 105),
 (1006, 'Computer Science', 106),
 (1007, 'cloud computing', 109),
 (1008, 'data science', 113),
 (1009, 'devops', 112),
 (1010, 'cyber security', 115);

➤ Select * from course;

```
mysql> select * from course;
```

course_id	course_name	teacher_id
1001	Mathematics	101
1002	computer science	101
1003	software engineering	104
1004	digital marketing	104
1005	English	105
1006	Computer Science	106
1007	cloud computing	109
1008	data science	113
1009	devops	112
1010	cyber security	115

10 rows in set (0.00 sec)

Table4.enrollmeent:

```
CREATE TABLE enrollment (
  enrollment_id INT PRIMARY KEY,
  student_id INT,
  course_id INT,
  enrollment_date DATE,
  FOREIGN KEY (student_id) REFERENCES students(student_id),
```

FOREIGN KEY (course_id) REFERENCES course(course_id)

);

➤ Desc enrollment

```
mysql> desc enrollment;
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| enrollment_id  | int  | NO   | PRI | NULL    |       |
| student_id    | int  | YES  | MUL | NULL    |       |
| course_id     | int  | YES  | MUL | NULL    |       |
| enrollment_date | date | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

Insert values:

Insert into enrollment (enrollment_id, student_id, course_id, enrollment_date) values

(201, 10, 1001, '2024-01-10'),

(202, 11, 1001, '2024-01-12'),

(203, 12, 1003, '2024-01-15'),

(204, 12, 1004, '2024-01-18'),

(205, 42, 1005, '2024-01-20'),

(206, 52, 1006, '2024-02-01'),

(207, 62, 1007, '2024-02-05'),

(208, 72, 1008, '2024-02-08'),

(209, 103, 1009, '2024-02-11'),

(2010, 102, 1010, '2024-02-15');

```
mysql> select * from enrollment;
```

enrollment_id	student_id	course_id	enrollment_date
201	10	1001	2024-01-10
202	11	1001	2024-01-12
203	12	1003	2024-01-15
204	12	1004	2024-01-18
205	42	1005	2024-01-20
206	52	1006	2024-02-01
207	62	1007	2024-02-05
208	72	1008	2024-02-08
209	103	1009	2024-02-11
2010	102	1010	2024-02-15

```
10 rows in set (0.00 sec)
```