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## Student Records Management System

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- 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 enginerring', 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 enginerring | 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.enrollment:

```

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)
```