

SQL Tasks:

You have to create a school management system using SQL in phpMyAdmin. The system will manage students, teachers, courses, and enrollments.

Needed tables:

1. Students:

- `student_id` (INT, Primary Key)
- `first_name` (VARCHAR)
- `last_name` (VARCHAR)
- `date_of_birth` (DATE)
- `gender` (CHAR)
- `enrollment_date` (DATE)

2. Teachers:

- `teacher_id` (INT, Primary Key)
- `first_name` (VARCHAR)
- `last_name` (VARCHAR)
- `hire_date` (DATE)
- `subject` (VARCHAR)

3. Courses:

- `course_id` (INT, Primary Key)
- `course_name` (VARCHAR)
- `teacher_id` (INT, Foreign Key referencing Teachers)

4. Enrollments:

- `enrollment_id` (INT, Primary Key)
- `student_id` (INT, Foreign Key referencing Students)
- `course_id` (INT, Foreign Key referencing Courses)
- `enrollment_date` (DATE)

Fill the data to meet the requirements of the tasks so you can test your solutions.

Tasks:

1. Insert new records into the `Students` table.
2. Select all students who enrolled after January 1, 2020.
3. Update the last name of a student with `student_id` 1.
4. Delete a student record with `student_id` 1.
5. Select students who are female.
6. Select students who are either male or enrolled after 2020.
7. Select all students ordered by last name.
8. Find the earliest and latest enrollment dates.
9. Count the number of students enrolled.
10. Find students with the first name starting with 'J'.
11. Group students by gender and count them.
12. Select students along with the courses they are enrolled in.