**Tandel Prachi Raghunath - 2023ebcs178**

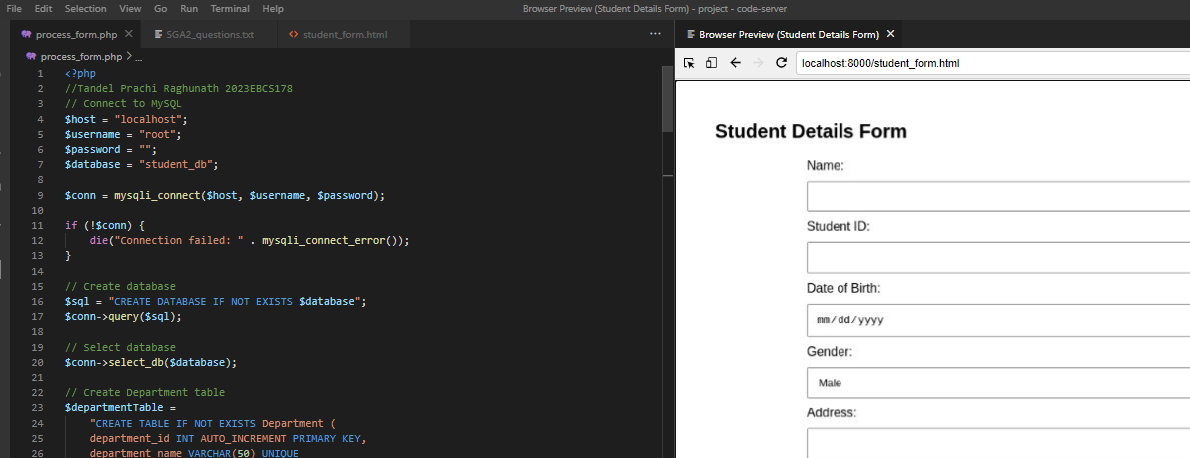
## **Staff Graded Assignment: Building a Student Management System Using PHP**

**Q.1:** covered in student\_form.html

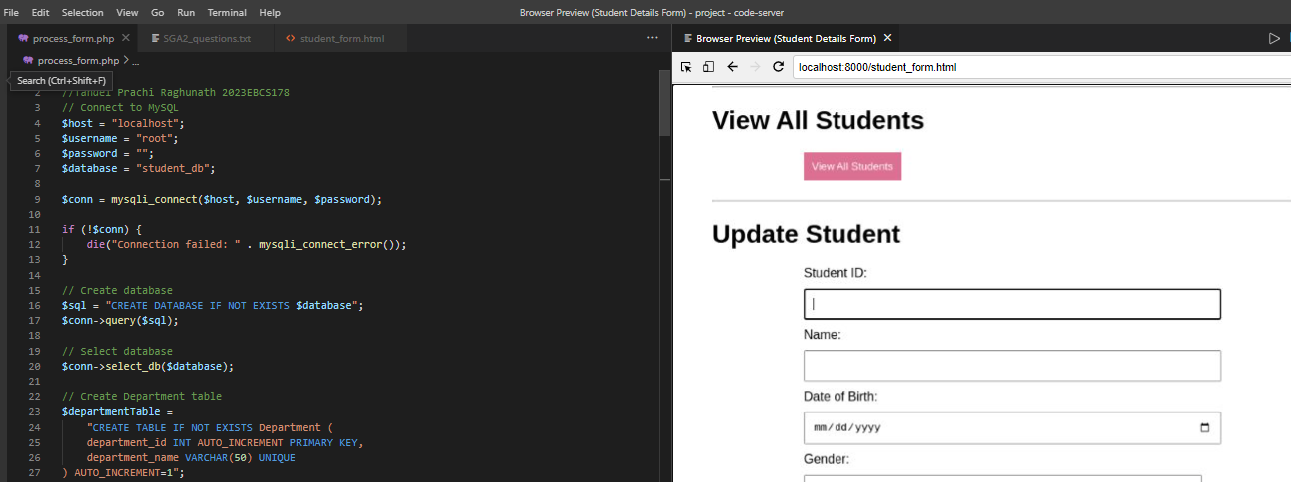
**Q.2 to Q.4:** covered in process\_form.php

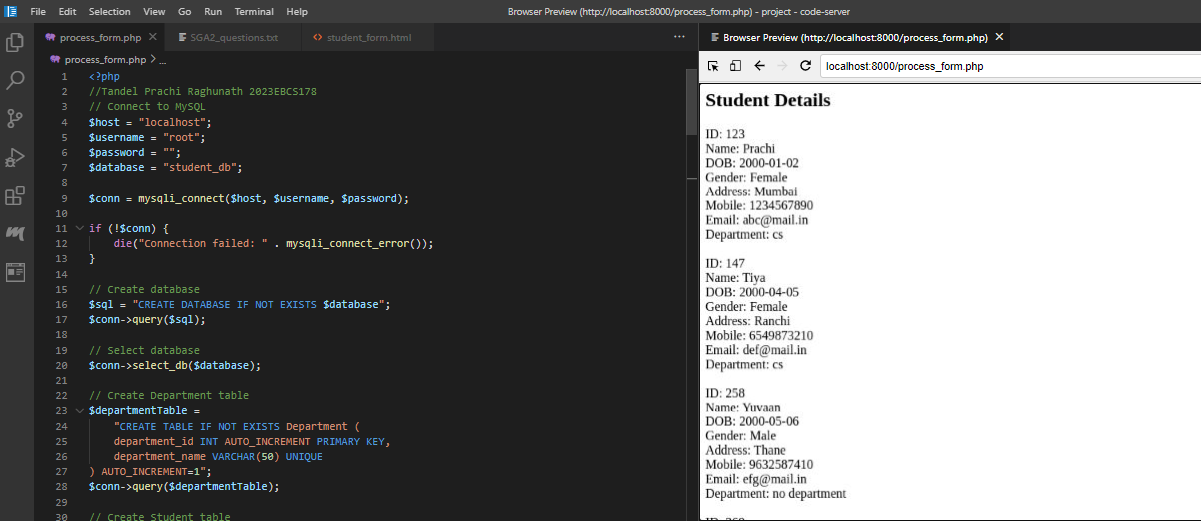
**Q.5:** Implement CRUD operations for the student details. Provide the ability to add, view, update, and delete student records from the database.

Add Details:

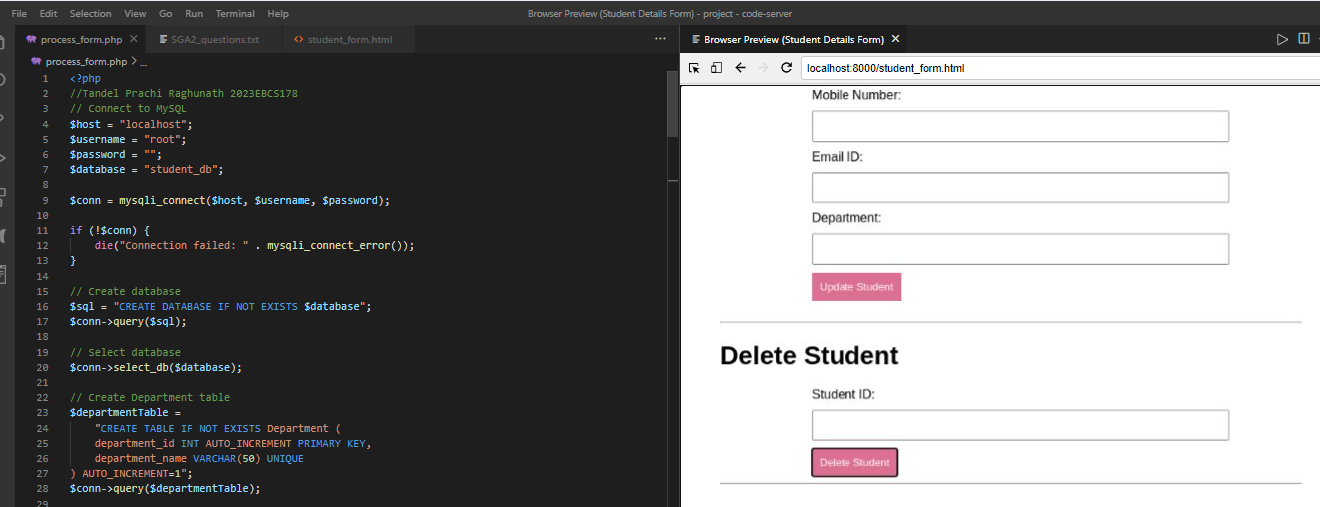


View & Update Details:





Delete details:



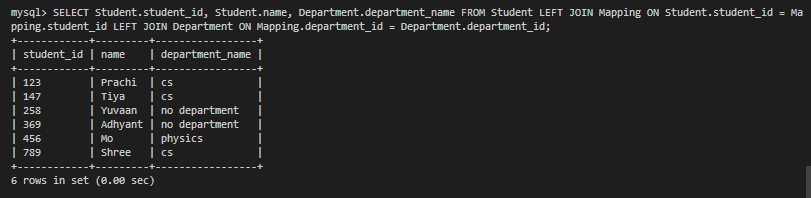
**Q.6:** Explain how the foreign key relationships are established.

Foreign keys enforce referential integrity by ensuring that each student’s department ID exists in the Department table, establishing a relationship between Student and Department.

**Q.7:** Write SQL queries to:

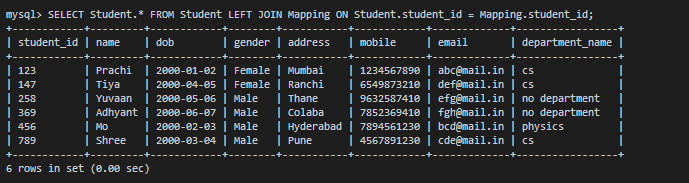
**a)** Fetch student details along with their corresponding department information.

**SELECT Student.student\_id, Student.name, Department.department\_name FROM Student LEFT JOIN Mapping ON Student.student\_id = Mapping.student\_id LEFT JOIN Department ON Mapping.department\_id = Department.department\_id;**



**b)** Fetch all student details, including those who may not have a corresponding department entry.

**SELECT Student.\* FROM Student LEFT JOIN Mapping ON Student.student\_id = Mapping.student\_id;**



**c)** Obtain department name and count of associated students.

**SELECT Department.department\_name, COUNT(Mapping.student\_id) AS student\_count FROM Department LEFT JOIN Mapping ON Department.department\_id = Mapping.department\_id GROUP BY Department.department\_name;**

