

1. INSERT INTO students (first_name, last_name, date_of_birth, gender, contact_number, email, admission_year, department_id) VALUES ('Alice', 'Johnson', '2001-03-10', 'Female', '1234567890', 'alice.johnson@example.com', 2024, 1);
2. SELECT * FROM students;

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
1	Alice	Johnson	2001-03-10	Female	1234567890	alice.johnson@example.com	2024	1
2	Bob	Smith	2000-07-15	Male	9876543210	bob.smith@example.com	2023	2
3	Carol	White	1999-12-25	Female	1112223334	carol.white@example.com	2022	1

3. SELECT * FROM students;
4. DELETE FROM students WHERE id = 2;
5. SELECT * FROM students WHERE gender = 'Male' AND admission_year = 2022;

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
3	John	Doe	1999-08-21	Male	5554443333	john.doe@example.com	2022	1

6. SELECT DISTINCT department_id FROM students;

department_id
1
2
3

7. SELECT * FROM students ORDER BY admission_year DESC;

id	first_name	last_name	admission_year
1	Alice	Johnson	2024
2	Bob	Smith	2023
3	Carol	White	2022

8. SELECT course_id, credit_hours * 2 AS double_credit_hours FROM Courses;

course_id	double_credit_hours
101	6
102	8
103	4

9. SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM students;

full_name
Alice Johnson
Bob Smith
Carol White

10. SELECT * FROM Enrollments;

enrollment_id	student_id	course_id	semester
1	1	101	Fall 2024
2	2	102	Spring 2023
3	3	101	Fall 2022

11. SELECT * FROM students WHERE admission_year BETWEEN 2020 AND 2022;

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
3	Carol	White	1999-12-25	Female	1112223334	carol.white@example.com	2022	1
4	David	Brown	1998-04-10	Male	2223334445	david.brown@example.com	2021	3

12. SELECT * FROM students WHERE department_id IN (1, 2);

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
1	Alice	Johnson	2001-03-10	Female	1234567890	alice.johnson@example.com	2024	1
2	Bob	Smith	2000-07-15	Male	9876543210	bob.smith@example.com	2023	2

13. SELECT * FROM students WHERE first_name LIKE 'A%';

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
1	Alice	Johnson	2001-03-10	Female	1234567890	alice.johnson@example.com	2024	1
5	Andrew	Lee	1997-01-01	Male	3334445556	andrew.lee@example.com	2021	2

14. SELECT * FROM students WHERE last_name LIKE '%son%';

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
1	Alice	Johnson	2001-03-10	Female	1234567890	alice.johnson@example.com	2024	1
6	Jason	Clarkson	2000-05-22	Male	6665554443	jason.clarkson@example.com	2022	2

15. SELECT * FROM students WHERE email LIKE '%@example.com';

id	first_name	last_name	date_of_birth	gender	contact_number	email	admission_year	department_id
1	Alice	Johnson	2001-03-10	Female	1234567890	alice.johnson@example.com	2024	1
2	Bob	Smith	2000-07-15	Male	9876543210	bob.smith@example.com	2023	2
3	Carol	White	1999-12-25	Female	1112223334	carol.white@example.com	2022	1

16. SELECT COUNT(*) AS total_students FROM students;

total_students
6