**Result for Student Table:**

| student_id | name | department |
|---|---|---|
| 1 | Amit Sharma | CSE |
| 2 | Neha Verma | ECE |
| 3 | Rohit Kumar | ME |
| 4 | Priya Singh | CSE |
| 5 | Vikram Patel | EEE |
| 6 | Sneha Nair | IT |
| 7 | Arjun Mehta | CSE |
| 8 | Pooja Rani | ECE |
| 9 | Karan Gupta | ME |
| 10 | Simran Kaur | IT |
| 11 | Rahul Joshi | CSE |
| 12 | Divya Menon | ECE |
| 13 | Ankit Yadav | ME |
| 14 | Meena Kumari | EEE |
| 15 | Saurabh Mi... | IT |
| 16 | Shweta Jain | CSE |
| 17 | Deepak Singh | ECE |
| 18 | Riya Sinha | ME |

**Result for Course Table:**

| course_id | course_name | credits |
|---|---|---|
| 101 | Data Structures | 4 |
| 102 | Digital Electronics | 3 |
| 103 | Thermodynamics | 3 |
| 104 | Database Systems | 4 |
| 105 | Operating Systems | 4 |
| 106 | Computer Networks | 3 |
| 107 | Software Engineering | 3 |
| 108 | Artificial Intelligence | 4 |
| 109 | Machine Learning | 4 |
| 110 | Computer Graphics | 3 |
| 111 | Compiler Design | 4 |
| 112 | Cyber Security | 3 |
| 113 | Cloud Computing | 3 |
| 114 | Big Data Analytics | 4 |
| 115 | Microprocessors | 3 |
| 116 | VLSI Design | 3 |
| 117 | Signal Processing | 3 |
| 118 | Embedded Systems | 4 |

**Result for Semester Table:**

| | semester_id | semester_name | year |
|---|---|---|---|
| ▶ | 1 | Semester 1 | 2020 |
| | 2 | Semester 2 | 2020 |
| | 3 | Semester 3 | 2021 |
| | 4 | Semester 4 | 2021 |
| | 5 | Semester 5 | 2022 |
| | 6 | Semester 6 | 2022 |
| | 7 | Semester 7 | 2023 |
| | 8 | Semester 8 | 2023 |
| ＊ | NULL | NULL | NULL |

**Result for Enrolment Table:**

| | enrollment_id | student_id | course_id | semester_id |
|---|---|---|---|---|
| ▶ | 1 | 1 | 101 | 1 |
| | 2 | 2 | 102 | 2 |
| | 3 | 3 | 103 | 3 |
| | 4 | 4 | 104 | 4 |
| | 5 | 5 | 105 | 5 |
| | 6 | 6 | 106 | 6 |
| | 7 | 7 | 107 | 7 |
| | 8 | 8 | 108 | 8 |
| | 9 | 9 | 109 | 1 |
| | 10 | 10 | 110 | 2 |
| | 11 | 11 | 111 | 3 |
| | 12 | 12 | 112 | 4 |
| | 13 | 13 | 113 | 5 |
| | 14 | 14 | 114 | 6 |
| | 15 | 15 | 115 | 7 |
| | 16 | 16 | 116 | 8 |
| | 17 | 17 | 117 | 1 |
| | 18 | 18 | 118 | 2 |

**Result for Grade Table:**

| grade_id | enrollment_id | marks | grade | gpa |
|---|---|---|---|---|
| 1 | 1 | 85 | A | 4 |
| 2 | 2 | 78 | B+ | 3.5 |
| 3 | 3 | 92 | A+ | 4 |
| 4 | 4 | 65 | C | 2 |
| 5 | 5 | 70 | B | 3 |
| 6 | 6 | 88 | A | 4 |
| 7 | 7 | 55 | D | 1.5 |
| 8 | 8 | 74 | B | 3 |
| 9 | 9 | 81 | A- | 3.7 |
| 10 | 10 | 95 | A+ | 4 |
| 11 | 11 | 67 | C+ | 2.3 |
| 12 | 12 | 72 | B | 3 |
| 13 | 13 | 89 | A | 4 |
| 14 | 14 | 91 | A+ | 4 |
| 15 | 15 | 76 | B+ | 3.5 |
| 16 | 16 | 64 | C | 2 |
| 17 | 17 | 59 | D | 1.5 |
| 18 | 18 | 82 | A- | 3.7 |

**Result for Calculate GPA per Student (Semester-wise) Query:**

| student_id | name | semester_name | semester_gpa |
|---|---|---|---|
| 1 | Amit Sharma | Semester 1 | 4 |
| 2 | Neha Verma | Semester 2 | 3.5 |
| 3 | Rohit Kumar | Semester 3 | 4 |
| 4 | Priya Singh | Semester 4 | 2 |
| 5 | Vikram Patel | Semester 5 | 3 |
| 6 | Sneha Nair | Semester 6 | 4 |
| 7 | Arjun Mehta | Semester 7 | 1.5 |
| 8 | Pooja Rani | Semester 8 | 3 |
| 9 | Karan Gupta | Semester 1 | 3.7 |
| 10 | Simran Kaur | Semester 2 | 4 |
| 11 | Rahul Joshi | Semester 3 | 2.3 |
| 12 | Divya Menon | Semester 4 | 3 |
| 13 | Ankit Yadav | Semester 5 | 4 |
| 14 | Meena Kumari | Semester 6 | 4 |
| 15 | Saurabh Mi... | Semester 7 | 3.5 |
| 16 | Shweta Jain | Semester 8 | 2 |
| 17 | Deepak Singh | Semester 1 | 1.5 |
| 18 | Riya Sinha | Semester 2 | 3.7 |

**Result for Calculate CGPA (Overall GPA) Query:**

| | student_id | name | cgpa |
|---|---|---|---|
| ▶ | 1 | Amit Sharma | 4 |
| | 28 | Rajeev Ranjan | 4 |
| | 3 | Rohit Kumar | 4 |
| | 33 | Aditya Prasad | 4 |
| | 35 | Mayank Arora | 4 |
| | 6 | Sneha Nair | 4 |
| | 13 | Ankit Yadav | 4 |
| | 20 | Komal Thakur | 4 |
| | 50 | Kirti Chauhan | 4 |
| | 10 | Simran Kaur | 4 |
| | 41 | Umesh Jha | 4 |
| | 43 | Ashish Bansal | 4 |
| | 45 | Chetan Garg | 4 |
| | 14 | Meena Kumari | 4 |
| | 47 | Aadesh Rawat | 4 |
| | 26 | Manish Kumar | 4 |
| | 9 | Karan Gupta | 3.7 |
| | 18 | Riya Sinha | 3.7 |

**Result for Pass or Fail Statistics Query:**

| | status | total_students |
|---|---|---|
| ▶ | Pass | 43 |
| | Fail | 7 |

**Result for Rank List using Window Functions Query:**

| | student_id | name | cgpa | rank_position |
|---|---|---|---|---|
| ▶ | 1 | Amit Sharma | 4 | 1 |
| | 28 | Rajeev Ranjan | 4 | 1 |
| | 3 | Rohit Kumar | 4 | 1 |
| | 33 | Aditya Prasad | 4 | 1 |
| | 35 | Mayank Arora | 4 | 1 |
| | 6 | Sneha Nair | 4 | 1 |
| | 13 | Ankit Yadav | 4 | 1 |
| | 20 | Komal Thakur | 4 | 1 |
| | 50 | Kirti Chauhan | 4 | 1 |
| | 10 | Simran Kaur | 4 | 1 |
| | 41 | Umesh Jha | 4 | 1 |
| | 43 | Ashish Bansal | 4 | 1 |
| | 45 | Chetan Garg | 4 | 1 |
| | 14 | Meena Kumari | 4 | 1 |
| | 47 | Aadesh Rawat | 4 | 1 |
| | 26 | Manish Kumar | 4 | 1 |
| | 9 | Karan Gupta | 3.7 | 17 |
| | 18 | Riya Sinha | 3.7 | 17 |

**Result for Trigger for GPA Calculation Query:**

● 13 12:40:21 CREATE TRIGGER trg_calculate_gpaa BEFORE INSERT ON Grades FOR EACH ROW BEGIN    IF NEW.marks >= 90 THEN    ... 0 row(s) affected    0.015 sec

**Result for Semester-wise Result Summary Query:**

| semester_name | total_students | avg_gpa | pass_count | fail_count |
|---|---|---|---|---|
| Semester 1 | 7 | 3.46 | 6 | 1 |
| Semester 2 | 7 | 3.36 | 7 | 0 |
| Semester 3 | 6 | 3.22 | 6 | 0 |
| Semester 4 | 6 | 2.42 | 4 | 2 |
| Semester 5 | 6 | 2.92 | 4 | 2 |
| Semester 6 | 6 | 3.53 | 6 | 0 |
| Semester 7 | 6 | 2.87 | 4 | 2 |
| Semester 8 | 6 | 2.38 | 6 | 0 |

**Result for Stored Procedure: sp_student_result_card Query: (This query Shows five set of Results for each student record we enter in the query  [for Example: CALL sp_student_result_card(21)] this 21 id refer Mohit Rana's data)**

| student_id | name | department |
|---|---|---|
| 21 | Mohit Rana | CSE |

Result Grid  Filter Rows:

| semester_name | semester_gpa |
|---|---|
| Semester 5 | 1.5 |

Result Grid  Filter Rows:  Export:  Wrap Cell Content:

| semester_name | course_name | credits | marks | grade | gpa |
|---|---|---|---|---|---|
| Semester 5 | Renewable Energy | 3 | 60 | D | 1.5 |

Result Grid  F

| cgpa |
|---|
| 1.5 |

Result Grid  Filter Rows:  Export:

| student_id | name | cgpa | rank_position |
|---|---|---|---|
| 21 | Mohit Rana | 1.5 | 44 |