**1. Students Table**

| **student\_id** | **name** | **date\_of\_birth** | **contact\_number** | **address** |
| --- | --- | --- | --- | --- |
| 2 | Rahul | 1996-09-20 | 987-654-3210 | 15 Lotus Lane |
| 5 | Priya | 1999-04-12 | 555-123-4567 | 42 Tulip Road |
| 3 | Amit | 1997-07-05 | 789-456-1230 | 88 Rose Street |
| 1 | John Doe | 1995-07-15 | 555-1234 | 123 Main Street |

**2. Courses Table**

| **course\_id** | **name** | **description** | **credits** |
| --- | --- | --- | --- |
| 100 | Introduction to Programming | An introductory course on programming concepts. | 3 |
| 200 | Database Management | Learn about managing and querying databases. | 4 |
| 300 | Web Development Fundamentals | Building web applications from scratch. | 3 |
| 400 | Data Structures and Algorithms | Advanced data structures and algorithms. | 4 |
| 500 | Machine Learning | Introduction to machine learning techniques. | 3 |
| 101 | Mathematics | Introduction to Calculus | 3 |

**3. Grades Tabl**

| **student\_id** | **course\_id** | **grade** |
| --- | --- | --- |
| 1 | 101 | 98.8 |
| 1 | 200 | 88.0 |
| 2 | 100 | 95.2 |
| 2 | 300 | 89.7 |
| 5 | 200 | 58.4 |
| 5 | 300 | 82.1 |
| 3 | 200 | 78.4 |
| 3 | 400 | 87.1 |

**4. Enrollments Table**

| **student\_id** | **course\_id** | **enrollment\_date** |
| --- | --- | --- |
| 1 | 101 | 2023-09-15 |
| 1 | 200 | 2023-09-16 |
| 2 | 100 | 2023-09-14 |
| 2 | 300 | 2023-09-17 |
| 5 | 200 | 2023-09-16 |
| 3 | 500 | 2023-09-18 |

**5. Average Grade Query for Student 1**

| **AVG(grade)** |
| --- |
| 93.4 |

**6. Top 10 Students by Average Grade**

| **student\_id** | **name** | **date\_of\_birth** | **contact\_number** | **address** | **average\_grade** |
| --- | --- | --- | --- | --- | --- |
| 2 | Rahul | 1996-09-20 | 987-654-3210 | 15 Lotus Lane | 92.45 |
| 1 | John Doe | 1995-07-15 | 555-1234 | 123 Main Street | 93.4 |
| 3 | Amit | 1997-07-05 | 789-456-1230 | 88 Rose Street | 82.75 |
| 5 | Priya | 1999-04-12 | 555-123-4567 | 42 Tulip Road | 70.25 |