

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Lab Report**

**Course Title: Advance Database management System Lab**

**Course Code: CSE – 436**

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| **Submitted By** | **Submitted To** |
| **Name:** Md. Nahid Hasan  **ID:** 221311131  **Section:** D  **Semester:** 9th  **Batch:** 29th  **Dept. Of CSE**  **Varendra University,**  **Rajshahi** | **Sumaya Hannan Shova**  Lecturer  **Md. Toufikul Islam**  Lecturer  **Dept. Of CSE**  **Varendra University,**  **Rajshahi** |

**Submission date: 04.08.2025**

* **Experiment No:- 01**
* **Experiment Name: Implementing Basic SQL Query and Operations.**

**1. Create a table named Student with the Following structure**

* **Code:**

CREATE TABLE Student (

student\_id INT PRIMARY KEY,

name VARCHAR(50),

department VARCHAR(10),

age INT,

gpa DECIMAL(3, 2)

);

**2. Insert the follofollowing 4 records into the Student table**

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| * **Code:**   INSERT INTO Student  VALUES (1, 'Ayesha', 'CSE', 20, 3.80),  (2, 'Rafi', 'EEE', 21, 3.50),  (3, 'Tanvir', 'CSE', 22, 3.20),  (4, 'Sumaya', 'BBA', 19, 3.90); | * **Output:** |

**3. Insert one more student "Nayeem"……**

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| * **Code:**   INSERT INTO Student  VALUES (5, 'Nayeem', 'CSE', 20, 3.60); | * **Output:** |

**5. Increase GPA by 0.2 for students in "EEE" department**

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| * **Code:**   UPDATE Student  SET gpa = gpa + 0.2 WHERE department = 'EEE'; | * **Output:** |

**6. Delete the student whose name is "Tanvir"**

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| * **Code:**   DELETE FROM Student WHERE name = 'Tanvir'; | * **Output:** |

**7. Rename the table Student to Student\_Info**

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| * **Code:**   EXEC sp\_rename 'Student', 'Student\_Info'; | * **Output:** |

**8. Rename the column gpa to cgpa in the Student\_Info table**

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| * **Code:**   EXEC sp\_rename 'Student\_Info.gpa', 'cgpa', 'COLUMN'; | * **Output:** |

**9. Add a new column email (type: VARCHAR(100)) to Student\_Info**

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| * **Code:**   ALTER TABLE Student\_Info ADD email VARCHAR(100); | * **Output:** |

**10. Insert a new student without GPA and then update the GPA later Using Update.**

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| * **Code:**   INSERT INTO Student\_Info (student\_id, name, department, age)  VALUES (6, 'Fahim', 'CSE', 21);  UPDATE Student\_Info  SET cgpa = 3.75 WHERE name = 'Fahim'; | * **Output:** |