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**Faculty of Technology and Engineering**

**Chandubhai S. Patel Institute of Technology (CSPIT)**

**Department of Computer Science & Engineering**

Date:

**Laboratory Manual**

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| Academic Year | : | 2024-25 | Semester | : | 4 |
| Course code | : | CSE206 | Course name | : | DATABASE MANAGEMENT SYSTEM |

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| **Practical - 10** |
| **AIM - You are a database developer for a financial application that requires frequent mathematical calculations. One critical operation is multiplying two numbers provided by users and returning the result. To achieve this, you must create a robust PL/SQL procedure that handles various scenarios, including positive and negative numbers, zero values, and floating-point numbers. Create a PL/SQL procedure that calculates the product of two numbers, ensuring error handling for invalid inputs and consistent results.** |
| 1. **1. A user wants to calculate the product of two positive numbers, e.g., 10 and 5, to determine total costs.**   C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\1.PNG  **BY PROCEDURE:**  C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\1_1.PNG |
| 1. **A user wants to verify that multiplying any number with zero results in zero, e.g., 15 and 0.**   C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\2.PNG  **BY PROCEDURE:**  C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\2_2.PNG |
| 1. **A user is calculating the product of two negative numbers, e.g., -4 and -6, which should result in a positive product.**   C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\3.PNG  **BY PROCEDURE:**  C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\3_3.PNG |
| 1. **A user is calculating the product of a positive and a negative number, e.g., 7 and -3, to validate the outcome as negative.**   C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\4.PNG  **BY PROCEDURE:**  C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\4_4.PNG |
| 1. **A user wants to calculate the product of two decimal numbers, e.g., 2.5 and 4.2, for precision-sensitive operations.**   C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\5.PNG  **BY PROCEDURE:**  C:\Users\Administrator\Documents\23CS069\SQL\Files\PR10 photos\5_5.PNG |