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**Faculty of Technology and Engineering**

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

**Department of Computer Science & Engineering**

Date: / /

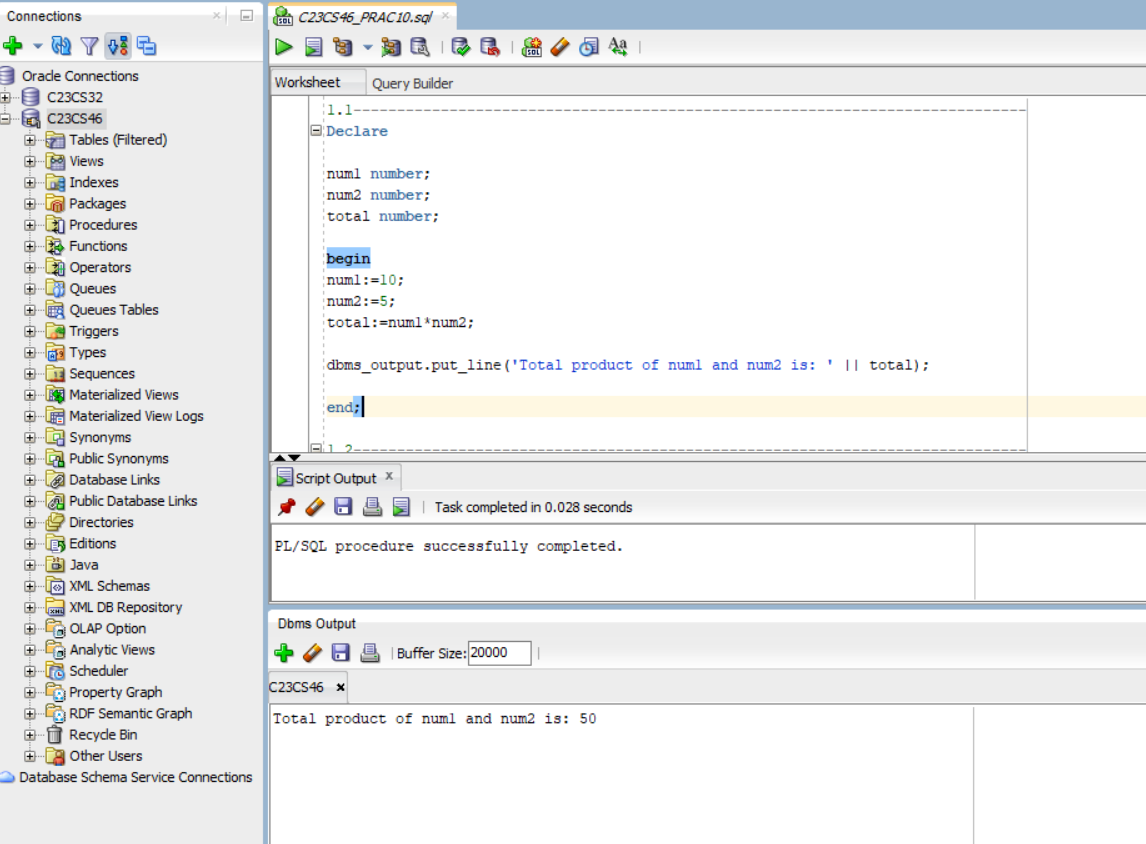
**Laboratory Manual**

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

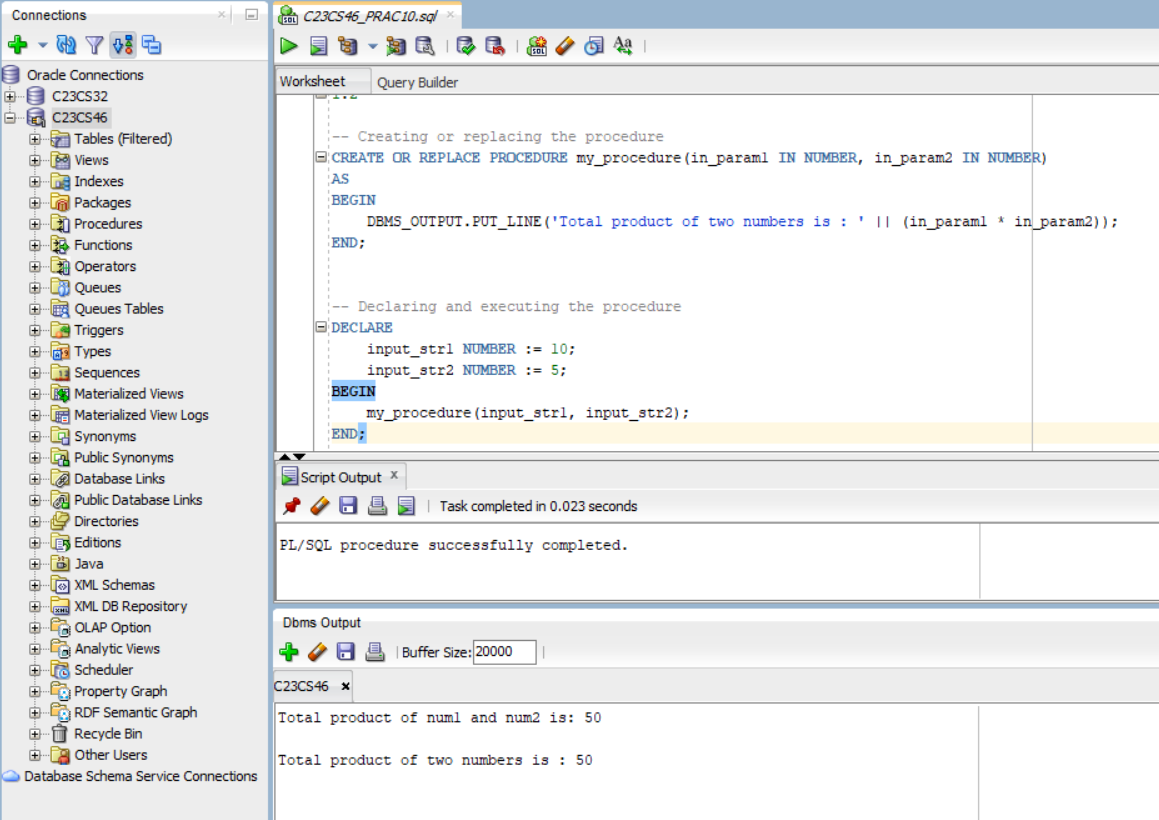
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| **Practical - 10** |
| **AIM -** You are a database developer for a financial application that requires frequent mathematical calculations. One critical operation is multiplying two numbers provided by users and returning the result. To achieve this, 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.  **Tasks:-**   1. A user wants to calculate the product of two positive numbers, e.g., 10 and 5, to determine total costs. 2. A user wants to verify that multiplying any number with zero results in zero, e.g., 15 and 0. 3. A user is calculating the product of two negative numbers, e.g., -4 and -6, which should result in a positive product. 4. A user is calculating the product of a positive and a negative number, e.g., 7 and -3, to validate the outcome as negative. 5. A user wants to calculate the product of two decimal numbers, e.g., 2.5 and 4.2, for precision-sensitive operations. |

**Tasks : 1**

1. Anonymous Block

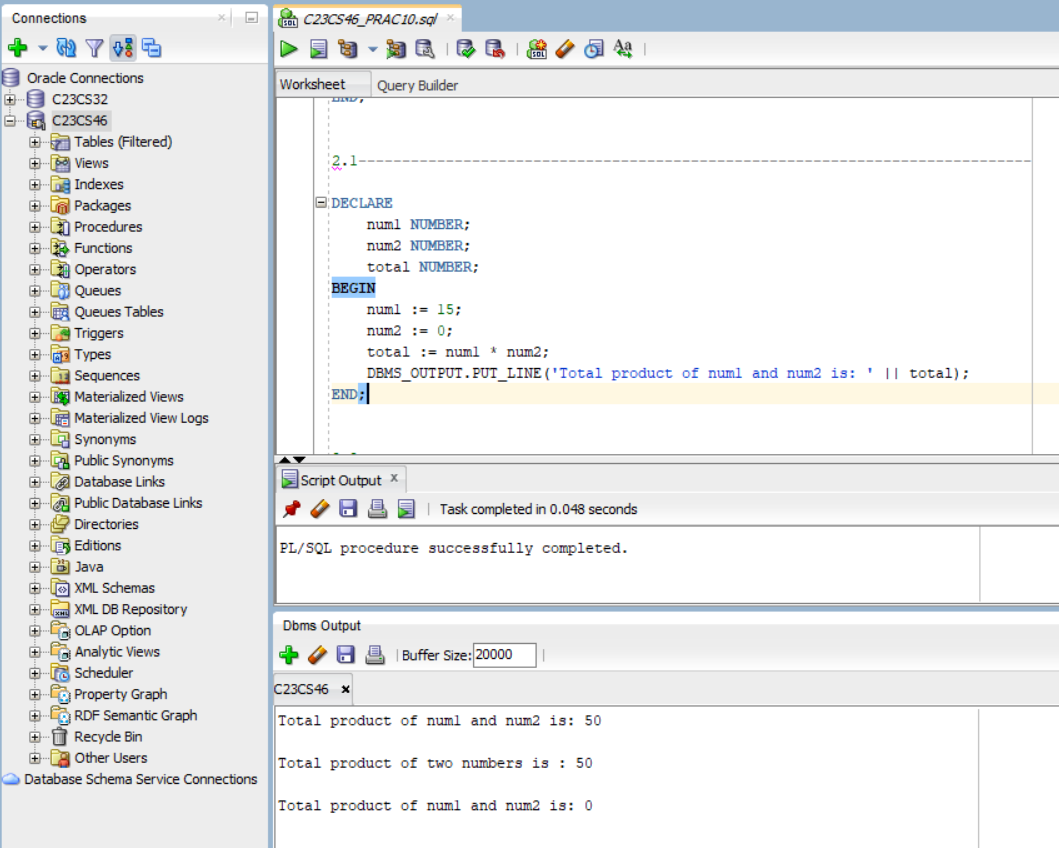


2. Procedure Block

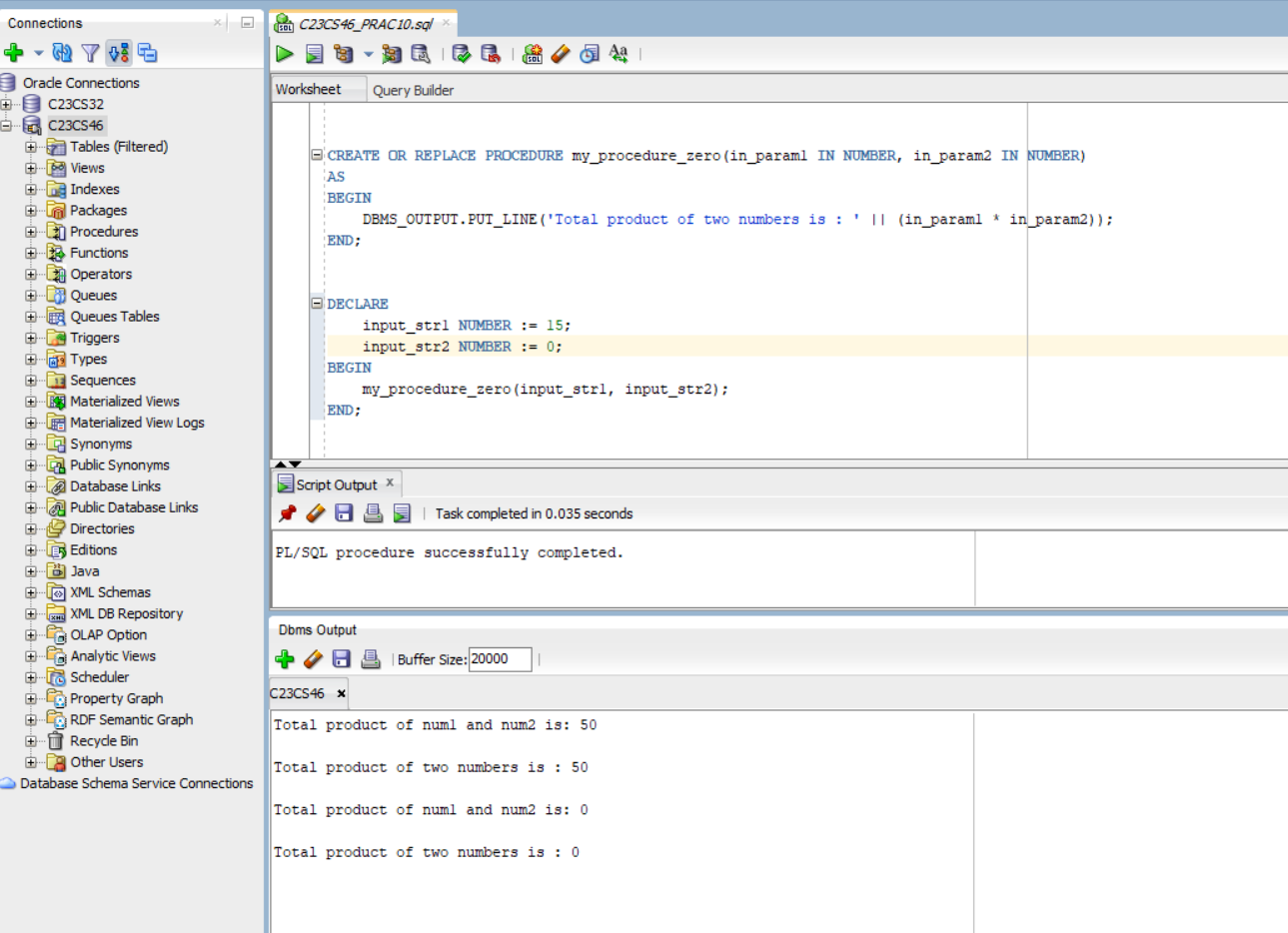


**Tasks : 2**

1. Anonymous Block

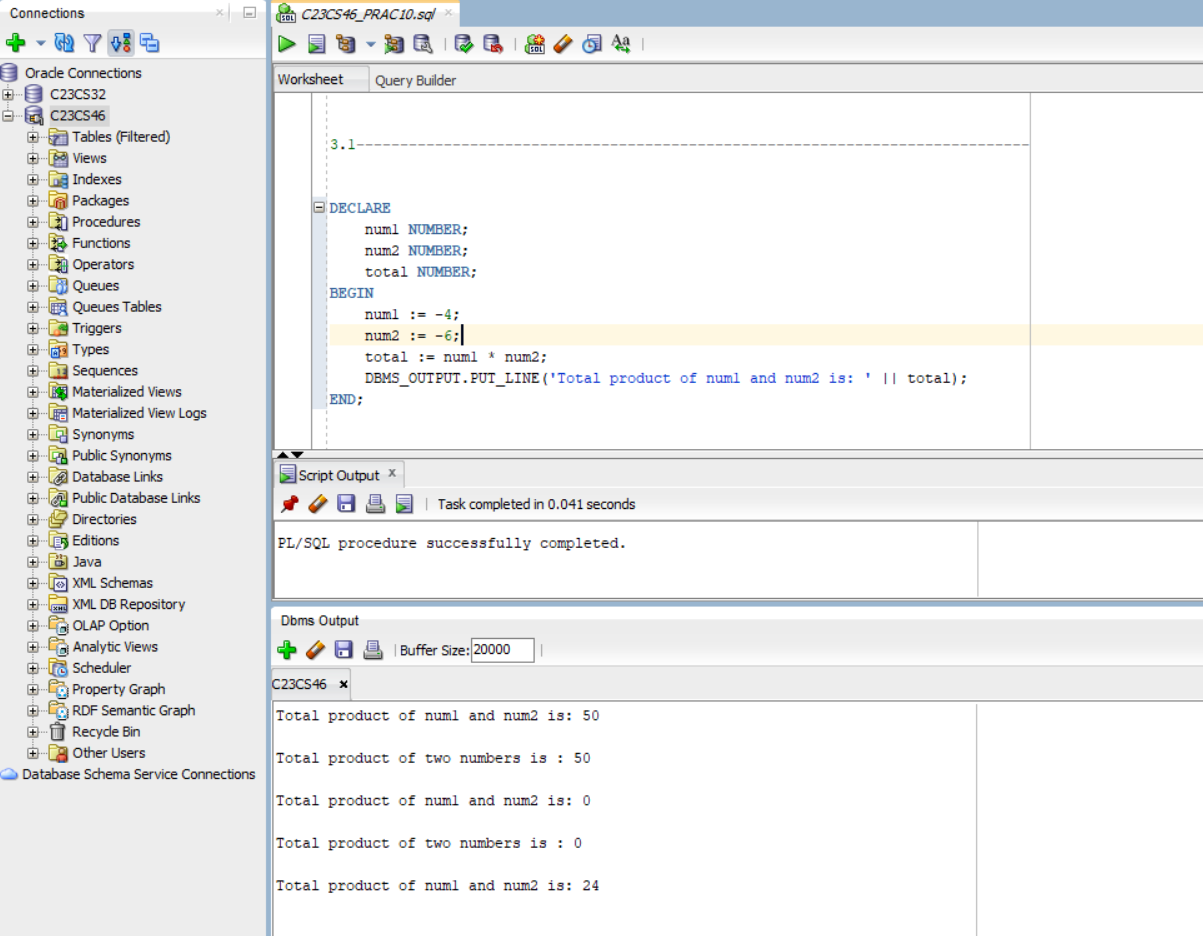


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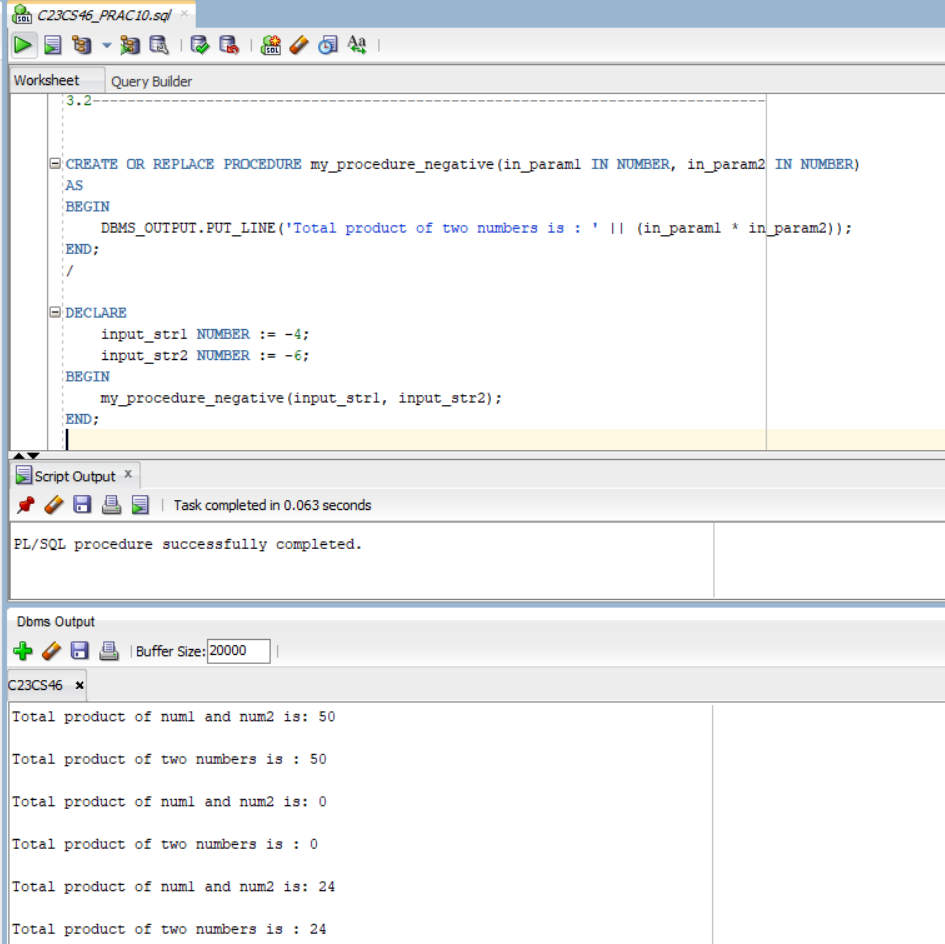


**Tasks : 3**

1. Anonymous Block

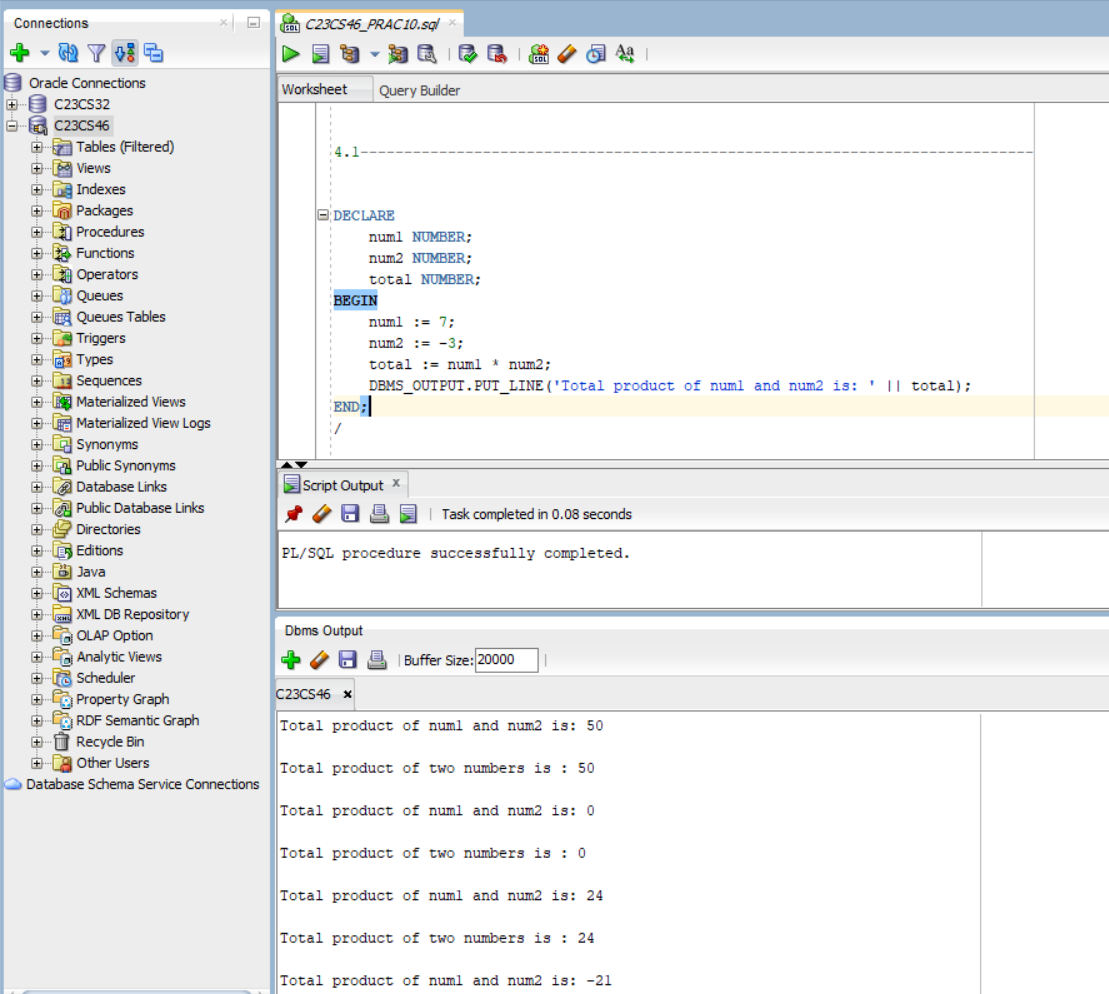


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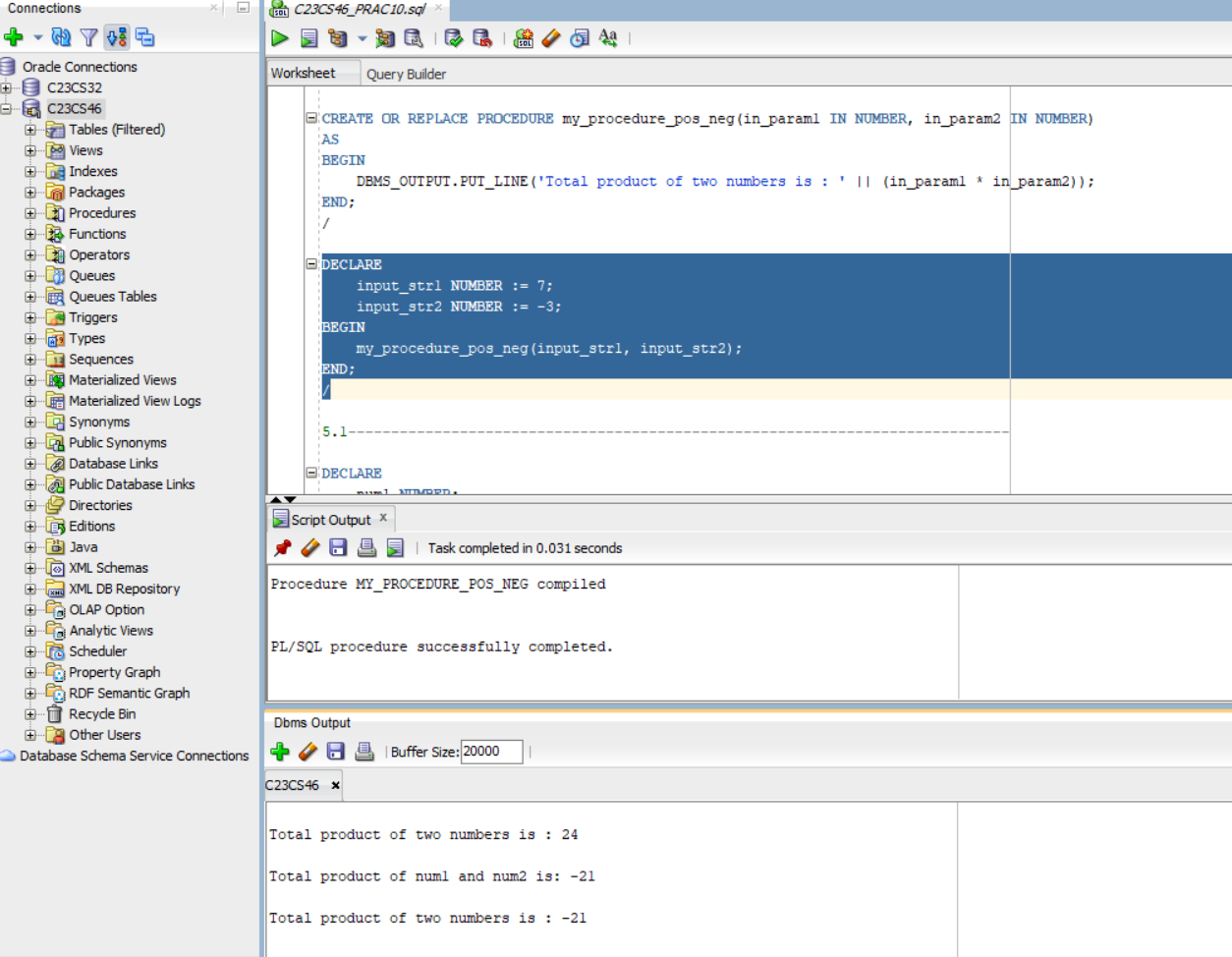


**Tasks : 4**

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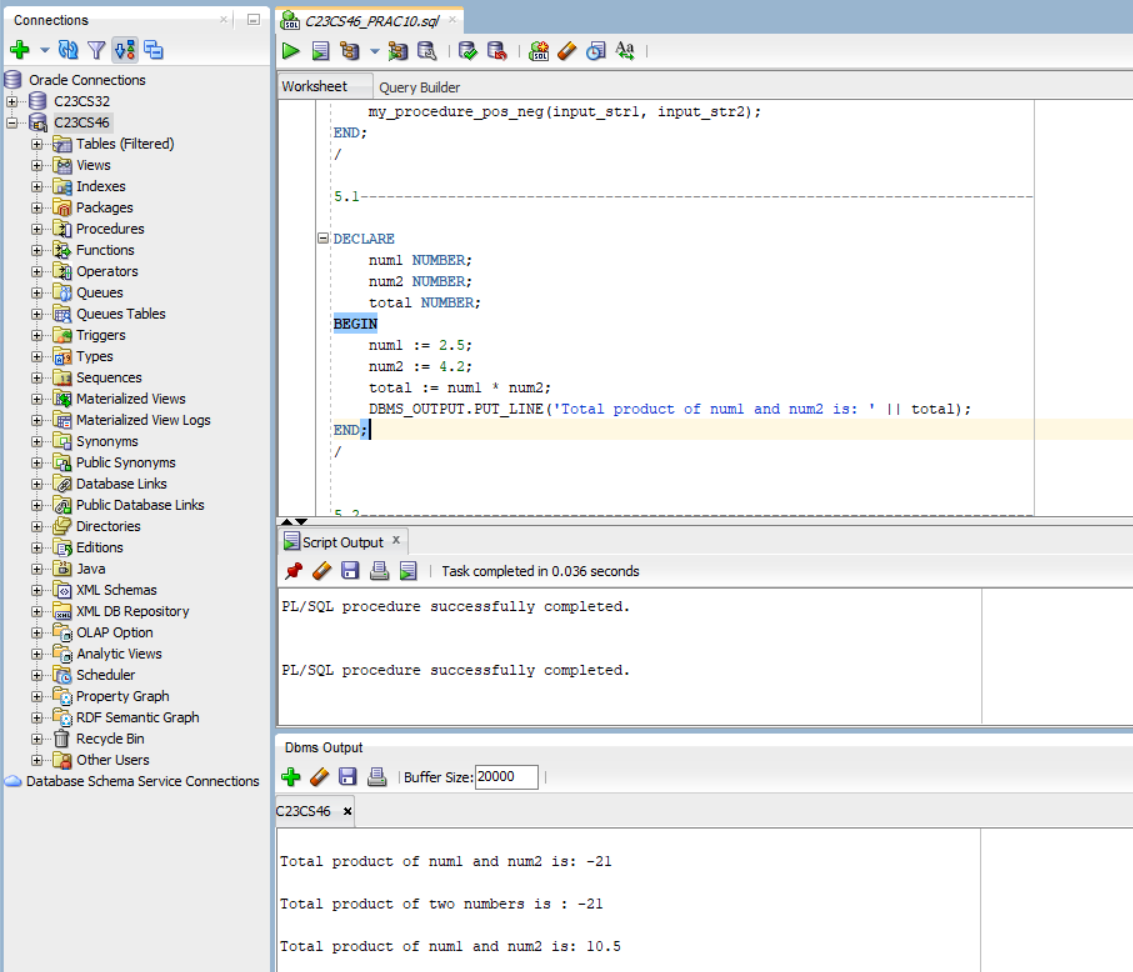


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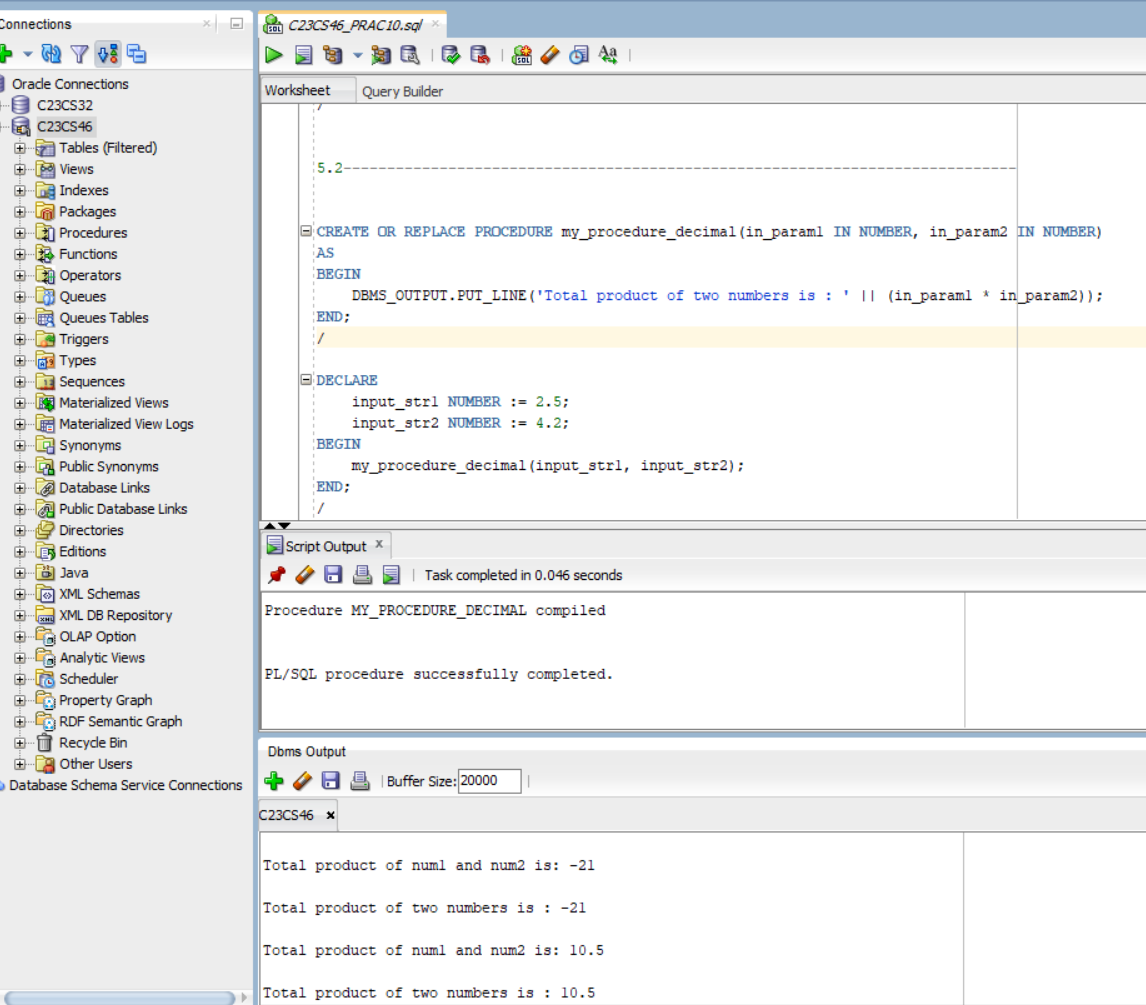


**Tasks : 5**

1. Anonymous Block

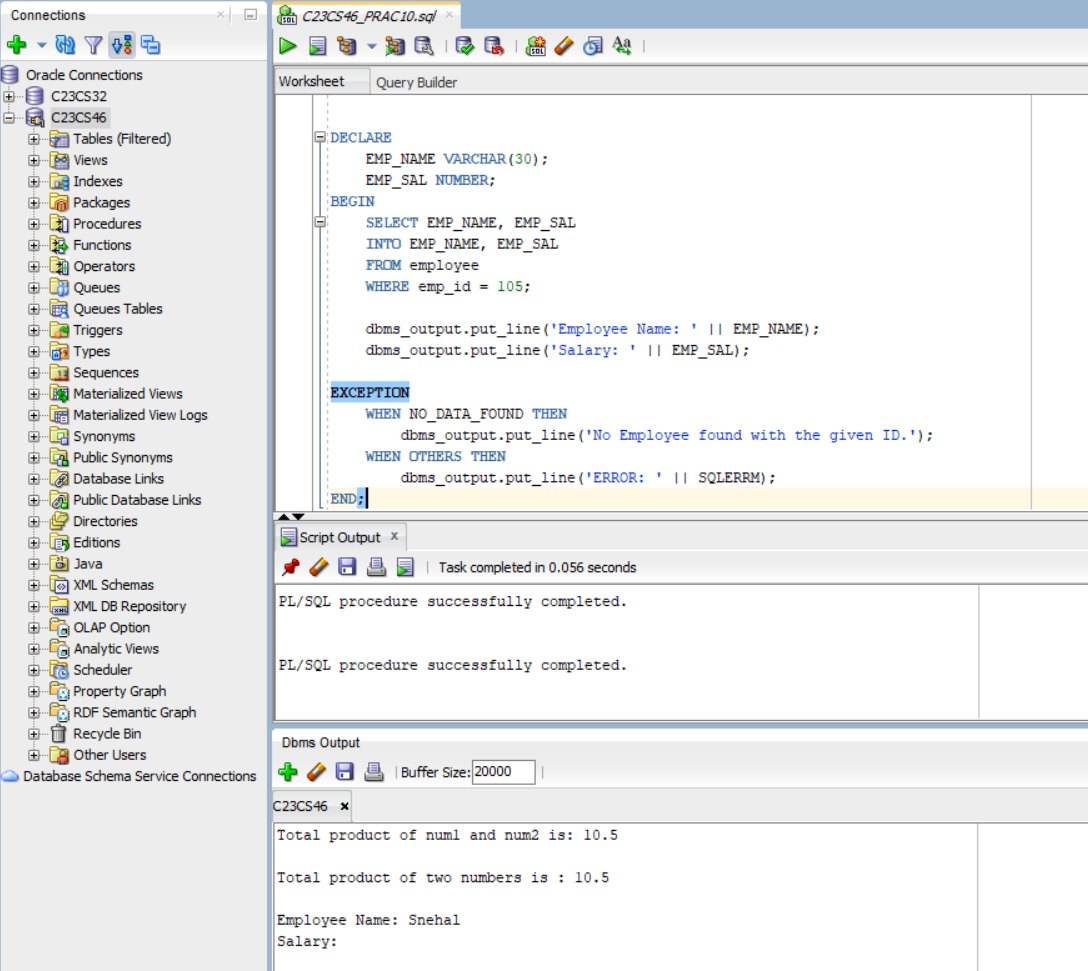


2. Procedure Block

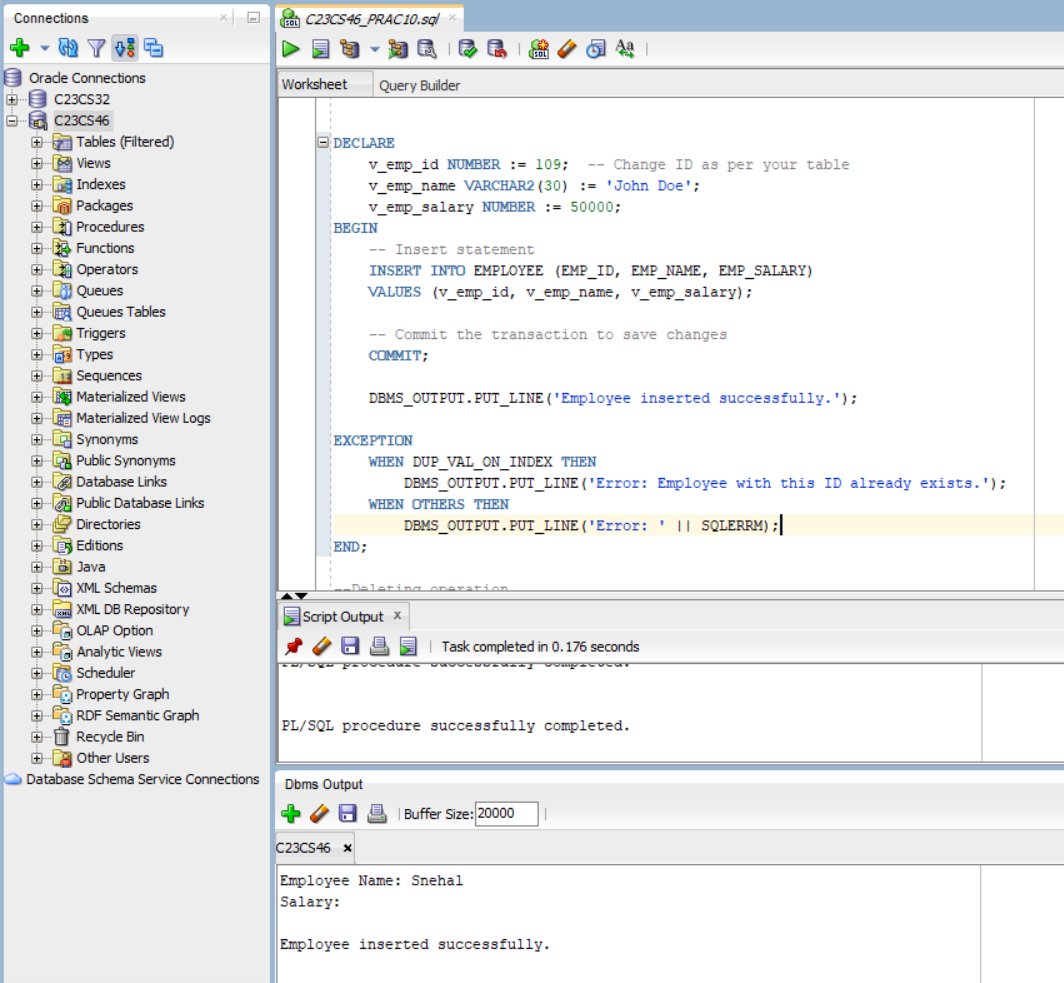


**PRACTICE PROGRAM:**

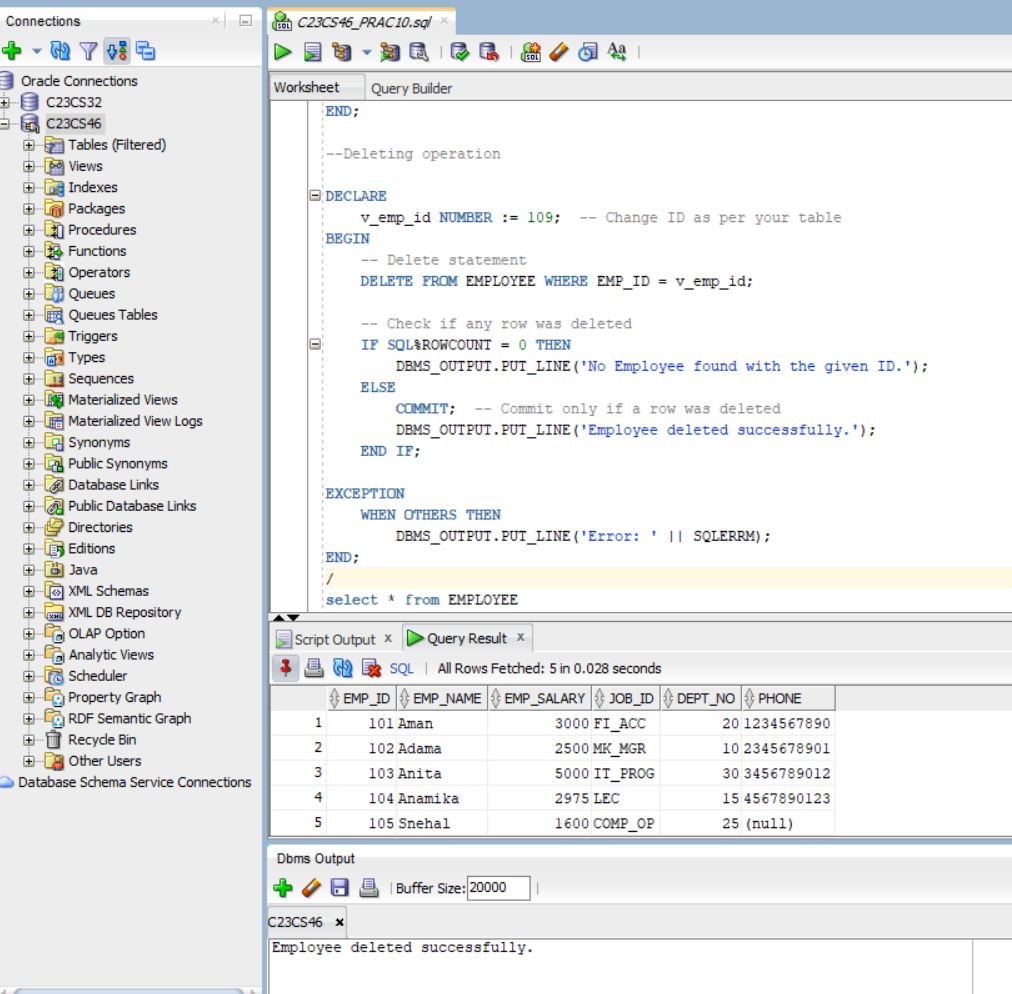
**SEARCH PROGRAM:**

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**INSERT PROGRAM:**

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**DELETE OPERATION:**

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