**Scenario 1: CustomerManagement Package**

**Package Spec:**

CREATE OR REPLACE PACKAGE CustomerManagement IS

PROCEDURE AddCustomer(p\_id NUMBER, p\_name VARCHAR2, p\_dob DATE, p\_balance NUMBER);

PROCEDURE UpdateCustomerName(p\_id NUMBER, p\_name VARCHAR2);

FUNCTION GetCustomerBalance(p\_id NUMBER) RETURN NUMBER;

END;

**Package Body:**

CREATE OR REPLACE PACKAGE BODY CustomerManagement IS

PROCEDURE AddCustomer(p\_id NUMBER, p\_name VARCHAR2, p\_dob DATE, p\_balance NUMBER) IS

BEGIN

INSERT INTO Customers (CustomerID, Name, DOB, Balance, LastModified)

VALUES (p\_id, p\_name, p\_dob, p\_balance, SYSDATE);

END;

PROCEDURE UpdateCustomerName(p\_id NUMBER, p\_name VARCHAR2) IS

BEGIN

UPDATE Customers SET Name = p\_name, LastModified = SYSDATE WHERE CustomerID = p\_id;

END;

FUNCTION GetCustomerBalance(p\_id NUMBER) RETURN NUMBER IS

v\_balance NUMBER;

BEGIN

SELECT Balance INTO v\_balance FROM Customers WHERE CustomerID = p\_id;

RETURN v\_balance;

END;

END;

**Output:**

EXEC CustomerManagement.AddCustomer(4, 'Sita', TO\_DATE('1995-01-01','YYYY-MM-DD'), 8000);

SELECT CustomerManagement.GetCustomerBalance(4) FROM dual;

**Scenario 2: EmployeeManagement Package**

**Spec:**

CREATE OR REPLACE PACKAGE EmployeeManagement IS

PROCEDURE HireEmployee(p\_id NUMBER, p\_name VARCHAR2, p\_position VARCHAR2, p\_salary NUMBER, p\_dept VARCHAR2, p\_hire DATE);

PROCEDURE UpdateEmployeeName(p\_id NUMBER, p\_name VARCHAR2);

FUNCTION GetAnnualSalary(p\_id NUMBER) RETURN NUMBER;

END;

**Body:**

CREATE OR REPLACE PACKAGE BODY EmployeeManagement IS

PROCEDURE HireEmployee(p\_id NUMBER, p\_name VARCHAR2, p\_position VARCHAR2, p\_salary NUMBER, p\_dept VARCHAR2, p\_hire DATE) IS

BEGIN

INSERT INTO Employees VALUES (p\_id, p\_name, p\_position, p\_salary, p\_dept, p\_hire);

END;

PROCEDURE UpdateEmployeeName(p\_id NUMBER, p\_name VARCHAR2) IS

BEGIN

UPDATE Employees SET Name = p\_name WHERE EmployeeID = p\_id;

END;

FUNCTION GetAnnualSalary(p\_id NUMBER) RETURN NUMBER IS

v\_salary NUMBER;

BEGIN

SELECT Salary INTO v\_salary FROM Employees WHERE EmployeeID = p\_id;

RETURN v\_salary \* 12;

END;

END;

**Output:**

SELECT EmployeeManagement.GetAnnualSalary(2) FROM dual;

720000

**Scenario 3: AccountOperations Package**

**Spec:**

CREATE OR REPLACE PACKAGE AccountOperations IS

PROCEDURE OpenAccount(p\_acc\_id NUMBER, p\_cust\_id NUMBER, p\_type VARCHAR2, p\_balance NUMBER);

PROCEDURE CloseAccount(p\_acc\_id NUMBER);

FUNCTION GetTotalBalance(p\_cust\_id NUMBER) RETURN NUMBER;

END;

**Body:**

CREATE OR REPLACE PACKAGE BODY AccountOperations IS

PROCEDURE OpenAccount(p\_acc\_id NUMBER, p\_cust\_id NUMBER, p\_type VARCHAR2, p\_balance NUMBER) IS

BEGIN

INSERT INTO Accounts VALUES (p\_acc\_id, p\_cust\_id, p\_type, p\_balance, SYSDATE);

END;

PROCEDURE CloseAccount(p\_acc\_id NUMBER) IS

BEGIN

DELETE FROM Accounts WHERE AccountID = p\_acc\_id;

END;

FUNCTION GetTotalBalance(p\_cust\_id NUMBER) RETURN NUMBER IS

v\_total NUMBER;

BEGIN

SELECT SUM(Balance) INTO v\_total FROM Accounts WHERE CustomerID = p\_cust\_id;

RETURN v\_total;

END;

END;

**Output:**

SELECT AccountOperations.GetTotalBalance(1) FROM dual;

510 -- (Assuming AccountID 1 has ₹510 after transfers)