```
SQL> CREATE OR REPLACE PACKAGE CustomerManagement AS

PROCEDURE AddCustomer(

p_customer_id NUMBER,

p_name VARCHAR2,

p_dob DATE,

p_balance NUMBER

);

PROCEDURE UpdateCustomerDetails(

p_customer_id NUMBER,

p_name VARCHAR2,

p_dob DATE

);

FUNCTION GetCustomerBalance(

p_customer_id NUMBER

Pustomer_id NUMBER
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY CustomerManagement AS
        PROCEDURE AddCustomer(
            p_customer_id NUMBER,
 5
            p name VARCHAR2,
 6
            p_dob DATE,
            p_balance NUMBER
8
        ) IS
9
        BEGIN
10
            INSERT INTO Customers (CustomerID, Name, DOB, Balance, LastModified)
11
            VALUES (p_customer_id, p_name, p_dob, p_balance, SYSDATE);
12
13
            DBMS_OUTPUT.PUT_LINE('Customer added: ' || p_name);
14
        EXCEPTION
15
            WHEN DUP VAL ON INDEX THEN
16
                DBMS_OUTPUT.PUT_LINE('Customer ID already exists.');
17
        END AddCustomer;
18
19
        PROCEDURE UpdateCustomerDetails(
            p_customer_id NUMBER,
20
21
            p_name VARCHAR2,
22
            p_dob DATE
23
        ) IS
24
25
        BEGIN
            UPDATE Customers
26
            SET Name = p_name, DOB = p_dob, LastModified = SYSDATE
27
            WHERE CustomerID = p_customer_id;
28
29
            DBMS OUTPUT.PUT LINE('Customer details updated for ID: ' || p customer id);
30
        END UpdateCustomerDetails;
31
32
        FUNCTION GetCustomerBalance(
33
            p_customer_id NUMBER
34
        ) RETURN NUMBER IS
35
            v balance NUMBER;
36
37
            SELECT Balance INTO v_balance FROM Customers
38
            WHERE CustomerID = p_customer_id;
39
40
            RETURN v_balance;
        EXCEPTION
41
42
            WHEN NO_DATA_FOUND THEN
43
                RETURN HULL;
44
        END GetCustomerBalance;
45
46
   END CustomerManagement;
47 /
```

Package body created.

```
SQL> CREATE OR REPLACE PACKAGE EmployeeManagement AS

PROCEDURE HireEmployee(
p_employee_id NUMBER,
p_name UARCHAR2,
p_name UARCHAR2,
p_salary NUMBER,
p_department UARCHAR2,
p_hire_date DATE

);

PROCEDURE UpdateEmployeeDetails(
p_employee_id NUMBER,
p_ossition UARCHAR2,
p_salary NUMBER,
p_salary NUMBER,
p_department UARCHAR2

// p_employee_id NUMBER,
p_department UARCHAR2

// p_salary NUMBER,
p_department UARCHAR2

// p_employee_id NUMBER

// PUNCTION CalculateAnnualSalary(
p_employee_id NUMBER

// PETURN NUMBER;
END EmployeeManagement;
// END EmployeeManagement;
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY EmployeeManagement AS
        PROCEDURE HireEmployee(
            p_employee_id NUMBER,
 5
            p_name_VARCHAR2,
            p position VARCHAR2,
 6
            p_salary NUMBER,
 8
            p department VARCHAR2,
 9
            p_hire_date_DATE
10
        ) IS
11
        BEGIN
12
            INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate)
13
            VALUES (p_employee_id, p_name, p_position, p_salary, p_department, p_hire_date);
14
15
            DBMS_OUTPUT.PUT_LINE('Employee hired: ' || p_name);
16
        EXCEPTION
17
            WHEN DUP_UAL_ON_INDEX THEN
18
                DBMS_OUTPUT.PUT_LINE('Employee ID already exists.');
19
        END HireEmployee;
20
21
        PROCEDURE UpdateEmployeeDetails(
            p_employee_id NUMBER,
22
23
            p position VARCHAR2,
24
            p_salary NUMBER,
25
            p_department VARCHAR2
26
        ) IS
27
        BEGIN
28
            UPDATE Employees
29
            SET Position = p_position, Salary = p_salary, Department = p_department
30
            WHERE EmployeeID = p_employee_id;
31
32
            DBMS_OUTPUT.PUT_LINE('Employee details updated for ID: ' || p_employee_id);
33
        END UpdateEmployeeDetails;
34
35
        FUNCTION CalculateAnnualSalary(
36
            p employee id NUMBER
37
        ) RETURN NUMBER IS
38
            v_monthly_salary NUMBER;
39
        BEGIN
40
            SELECT Salary INTO v monthly salary FROM Employees
41
            WHERE EmployeeID = p_employee_id;
42
43
            RETURN v_monthly_salary * 12;
44
        EXCEPTION
45
            WHEN NO DATA FOUND THEN
46
                RETURN NULL;
47
        END CalculateAnnualSalary;
48
49
   END EmployeeHanagement;
```

```
SQL> CREATE OR REPLACE PACKAGE AccountOperations AS

2     PROCEDURE OpenAccount(
3     p_account_id NUMBER,
4     p_customer_id NUMBER,
5     p_account_type UARCHAR2,
6     p_balance NUMBER
7    );
8
9     PROCEDURE CloseAccount(
10     p_account_id NUMBER
11    );
12
13     FUNCTION GetTotalCustomerBalance(
14     p_customer_id NUMBER
15    ) RETURN NUMBER;
16    END AccountOperations;
17 /
```

Package created.

```
PROCEDURE OpenAccount(
            p_account_id NUMBER,
            p_customer_id NUMBER,
p_account_type VARCHAR2,
5
            p_balance NUMBER
8
        ) IS
9
        BEGIN
10
            INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified)
11
            UALUES (p_account_id, p_customer_id, p_account_type, p_balance, SYSDATE);
12
13
            DBMS_OUTPUT.PUT_LINE('Account opened: ' || p_account_id);
        EXCEPTION
14
15
            WHEN DUP VAL ON INDEX THEN
16
                DBMS_OUTPUT.PUT_LINE('Account ID already exists.');
17
        END OpenAccount;
18
19
        PROCEDURE CloseAccount(
20
            p_account_id NUMBER
21
        ) IS
22
        BEGIN
23
            DELETE FROM Accounts
24
            WHERE AccountID = p_account_id;
25
26
            DBMS_OUTPUT.PUT_LINE('Account closed: ' || p_account_id);
27
        END CloseAccount;
28
29
        FUNCTION GetTotalCustomerBalance(
30
            p customer id NUMBER
31
        ) RETURN NUMBER IS
32
            v_total_balance NUMBER;
33
34
            SELECT SUM(Balance) INTO v_total_balance
35
            FROM Accounts
36
            WHERE CustomerID = p_customer_id;
37
38
            RETURN NVL(v_total_balance, 0);
39
        END GetTotalCustomerBalance;
40
41 END AccountOperations;
42
```

SQL> CREATE OR REPLACE PACKAGE BODY AccountOperations AS

Package body created.