Marwadi University

Faculty of Computer Applications

Subject: DBMS-II (05BS0204)

Academic Year: 2025–2026

Enrollment / Roll No: 92500588038

Student Name: Abraham Mum Ngor Achiek

College: Marwadi University

Class / Sem: B.Sc IT

Submitted To: _____

Index

Sr. No	Title	Submission Date
1	Simple Interest using PL/SQL	22-02-26
2	Square and Cube of a Number	22-02-26
3	Product Discount Calculation	22-02-26
4	Feet to CM, Inch, Meter	22-02-26
5	Celsius to Fahrenheit	22-02-26
6	Numbers using LOOP, FOR, WHILE	22-02-26
7	RESULT Table – Total, Percentage, Grade	22-02-26
8	EMP Table – Gross Salary	22-02-26
9	Display Male Employees from HR Dept	22-02-26
10	Delete Employee Record	22-02-26

Practical 1: Simple Interest

```
DECLARE
    p NUMBER := &p;
    r NUMBER := &r;
    n NUMBER := &n;
    si NUMBER;
BEGIN
    si := (p * r * n) / 100;
    DBMS_OUTPUT.PUT_LINE('Principal Amount: ' || p);
    DBMS_OUTPUT.PUT_LINE('Rate of Interest: ' || r || '%');
    DBMS_OUTPUT.PUT_LINE('Time Period: ' || n || ' years');
    DBMS_OUTPUT.PUT_LINE('Simple Interest: ' || si);
END;
/
```

Practical 2: Square and Cube

```
DECLARE
    num NUMBER := #
BEGIN
    DBMS_OUTPUT.PUT_LINE('Square: ' || num*num);
    DBMS_OUTPUT.PUT_LINE('Cube: ' || num*num*num);
END;
/
```

Practical 3: Product Discount

```
DECLARE
    pname VARCHAR2(20) := '&pname;';
    qty NUMBER := &qty;
    price NUMBER := &price;
    disc NUMBER := &disc;
    total NUMBER;
    discount_amt NUMBER;
    final_amt NUMBER;
BEGIN
    total := qty * price;
    discount_amt := total * disc / 100;
    final_amt := total - discount_amt;
    DBMS_OUTPUT.PUT_LINE('Product Name: ' || pname);
    DBMS_OUTPUT.PUT_LINE('Total Amount: ' || total);
    DBMS_OUTPUT.PUT_LINE('Discount: ' || discount_amt);
    DBMS_OUTPUT.PUT_LINE('Final Amount: ' || final_amt);
```

```
END;
/
```

Practical 4: Feet Conversion

```
DECLARE
    feet NUMBER := &feet;
BEGIN
    DBMS_OUTPUT.PUT_LINE('Inches: ' || feet * 12);
    DBMS_OUTPUT.PUT_LINE('Centimeters: ' || feet * 12 * 2.54);
    DBMS_OUTPUT.PUT_LINE('Meters: ' || (feet * 12 * 2.54)/100);
END;
/
```

Practical 5: Temperature Conversion

```
DECLARE
    c NUMBER := &celsius;
BEGIN
    DBMS_OUTPUT.PUT_LINE('Fahrenheit: ' || ((c * 9/5) + 32));
END;
/
```

Practical 6: Numbers using Loops

```
DECLARE
    n NUMBER := &n;
    i NUMBER := 1;
BEGIN
    FOR i IN 1..n LOOP
        DBMS_OUTPUT.PUT_LINE(i);
    END LOOP;
END;
/
```

Practical 7: RESULT Table

```
CREATE TABLE result (
    rollno NUMBER(3),
    name VARCHAR2(20),
    sub1 NUMBER(3),
    sub2 NUMBER(3),
    sub3 NUMBER(3),
    sub4 NUMBER(3),
    sub5 NUMBER(3),
```

```
    total NUMBER(5),
    per NUMBER(5,2),
    grade VARCHAR2(2)
);

DECLARE
    rno NUMBER := &rollno;
    t NUMBER;
    p NUMBER(5,2);
    g VARCHAR2(2);
BEGIN
    SELECT sub1+sub2+sub3+sub4+sub5,
           (sub1+sub2+sub3+sub4+sub5)/5
    INTO t, p
    FROM result
    WHERE rollno = rno;

    IF p >= 75 THEN g := 'A';
    ELSIF p >= 60 THEN g := 'B';
    ELSIF p >= 50 THEN g := 'C';
    ELSE g := 'F';
    END IF;

    UPDATE result
    SET total = t, per = p, grade = g
    WHERE rollno = rno;
END;
/
```

Practical 8: EMP Table – Gross Salary

```
CREATE TABLE emp (
    eid NUMBER(3),
    ename VARCHAR2(20),
    deptno NUMBER(2),
    deptname VARCHAR2(10),
    gender CHAR(1),
    age NUMBER(2),
    basicsal NUMBER(8,2)
);

DECLARE
    v_eid NUMBER := &eid;
    basic NUMBER;
    hra NUMBER;
```

```
    da NUMBER;
    medical NUMBER := 500;
    pf NUMBER;
    gross NUMBER;
BEGIN
    SELECT basicsal INTO basic FROM emp WHERE eid = v_eid;

    hra := basic * 0.15;
    da := basic * 0.50;
    pf := basic * 0.10;

    gross := basic + hra + da + medical - pf;
    DBMS_OUTPUT.PUT_LINE('Gross Salary: ' || gross);
END;
/
```

Practical 9: Male Employees from HR

```
BEGIN
    FOR r IN (SELECT * FROM emp WHERE gender='M' AND deptname='HR') LOOP
        DBMS_OUTPUT.PUT_LINE(r.eid || ' ' || r.ename);
    END LOOP;
END;
/
```

Practical 10: Delete Employee Record

```
DECLARE
    v_eid NUMBER := &eid;
BEGIN
    DELETE FROM emp WHERE eid = v_eid;
    DBMS_OUTPUT.PUT_LINE('Record Deleted');
END;
/
```

Assignment 1 – MARK Table

```
CREATE TABLE mark (
    rlno NUMBER(2),
    name CHAR(10),
    per NUMBER(3)
);

DESC mark;

INSERT INTO mark VALUES (&rlno;, '&name;', &per;);
```

```
SELECT * FROM mark;
```