

Lab Report of CSE464

LAB EXAM



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QUESTION 1:

```
SET SERVEROUTPUT ON;
DECLARE
    N NUMBER;
    SUM_val NUMBER := 0;
    I_val NUMBER := 0;
BEGIN
    N := 5; -- Example value, replace with your desired input method

    WHILE I_val <= N LOOP
        SUM_val := SUM_val + I_val;
        I_val := I_val + 1;
    END LOOP;

    DBMS_OUTPUT.PUT_LINE('Sum of 1 to ' || N || ' is = ' || SUM_val);
END;
/
```

QUESTION 2:

```
CREATE TABLE STUDENTS(  
    STUDENT_ID NUMBER,  
    NAME VARCHAR2(20),  
    DEPT_NAME VARCHAR2(3),  
    SEMESTER_FEE NUMBER  
);  
  
INSERT INTO STUDENTS VALUES(201, 'Nabila','CSE',70000);  
INSERT INTO STUDENTS VALUES(202, 'Hasan','BBA',55000);  
INSERT INTO STUDENTS VALUES(203, 'Sohan','EEE',45000);  
  
SET SERVEROUTPUT ON;  
DECLARE  
    CURSOR C_S IS  
        SELECT * FROM STUDENTS WHERE SEMESTER_FEE > 50000;  
  
    SID STUDENTS.STUDENT_ID%TYPE;  
    S_NAME STUDENTS.NAME%TYPE;  
    S_DPT STUDENTS.DEPT_NAME%TYPE;  
    SS_FEE STUDENTS.SEMESTER_FEE%TYPE;  
  
    COUN NUMBER := 0;  
  
BEGIN  
    OPEN C_S;  
  
    LOOP  
        FETCH C_S INTO SID, S_NAME, S_DPT, SS_FEE;  
        EXIT WHEN C_S%NOTFOUND;  
        UPDATE STUDENTS SET SEMESTER_FEE = SEMESTER_FEE - 2000 WHERE  
STUDENT_ID = SID;  
        COUN := COUN+1;  
    END LOOP;  
    CLOSE C_S;  
    DBMS_OUTPUT.PUT_LINE('TOTAL STUDENTS UPDATED: ' || COUN);  
END;  
/
```

QUESTION 3:

```
CREATE OR REPLACE FUNCTION CALCULATE_SCHOLARSHIP(  
    P_SEMESTER_FEE IN NUMBER  
) RETURN NUMBER  
IS  
    V_SCHOLARSHIP_AMOUNT NUMBER;  
BEGIN  
    V_SCHOLARSHIP_AMOUNT := P_SEMESTER_FEE * 0.10;  
    RETURN V_SCHOLARSHIP_AMOUNT;  
END CALCULATE_SCHOLARSHIP;  
/
```

QUESTION 4:

```
CREATE TABLE BACKUP_STUDENTS(  
    STUDENT_ID NUMBER,  
    NAME VARCHAR2(20),  
    DEPT_NAME VARCHAR2(3),  
    SEMESTER_FEE NUMBER  
);  
  
CREATE OR REPLACE TRIGGER STUDENTS_DELETE_BACKUP  
BEFORE DELETE ON STUDENTS  
FOR EACH ROW  
BEGIN  
    INSERT INTO BACKUP_STUDENTS(STUDENT_ID, NAME, DEPT_NAME, SEMESTER_FEE)  
    VALUES(:OLD.STUDENT_ID, :OLD.NAME, :OLD.DEPT_NAME, :OLD.SEMESTER_FEE);  
END;  
/
```