--CREATE TABLE Borrower (

-- Roll\_no NUMBER PRIMARY KEY,

-- Name VARCHAR2(100),

-- Date\_of\_Issue DATE,

-- Name\_of\_Book VARCHAR2(100),

-- Status CHAR(1) CHECK (Status IN ('I', 'R')) -- 'I' for Issued, 'R' for Returned

--);

--CREATE TABLE Fine (

-- Roll\_no NUMBER,

-- Fine\_Date DATE,

-- Amt NUMBER,

-- FOREIGN KEY (Roll\_no) REFERENCES Borrower(Roll\_no)

--);

DECLARE

Roll\_No Borrower.Roll\_no%TYPE;

Name Borrower.Name%TYPE;

DOI Borrower.Date\_of\_Issue%TYPE;

Name\_of\_Book Borrower.Name\_of\_Book%TYPE;

status Borrower.Status%TYPE;

Invalid\_input EXCEPTION;

BEGIN

Roll\_No := &Roll\_no;

Name := '&Name';

DOI := TO\_DATE('&Date\_of\_Issue', 'YYYY-MM-DD');

Name\_of\_Book := '&Name\_of\_Book';

status := '&Status';

IF status NOT IN ('I', 'R') THEN

RAISE Invalid\_input;

END IF;

INSERT INTO Borrower (Roll\_no, Name, Date\_of\_Issue, Name\_of\_Book, Status)

VALUES (Roll\_No, Name, DOI, Name\_of\_Book, status);

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Book entry created successfully.');

EXCEPTION

WHEN Invalid\_input THEN

DBMS\_OUTPUT.PUT\_LINE('Invalid status: Please enter ''I'' for Issued or ''R'' for Returned.');

WHEN DUP\_VAL\_ON\_INDEX THEN

DBMS\_OUTPUT.PUT\_LINE('Error: Roll number already exists. Please use a unique Roll number.');

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An unexpected error occurred: ' || SQLERRM);

ROLLBACK;

END;

/

--CREATE TABLE areas (

-- radius NUMBER,

-- area NUMBER

--);

DECLARE

area NUMBER;

BEGIN

FOR radius IN 5..9 LOOP

area := 3.14 \* radius \* radius;

INSERT INTO areas (radius, area) VALUES (radius, area);

END LOOP;

COMMIT;

EXCEPTION

WHEN OTHERS THEN

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('ERROR: ' || SQLERRM);

END;

/

SELECT \* FROM areas;

