Assignment No 4.

CREATE TABLE Borrower(Roll INT PRIMARY KEY NOT NULL AUTO_INCREMENT, Name VARCHAR(20), Dateoflssue DATE, NameofBook VARCHAR(20), Status VARCHAR(2));

CREATE TABLE Fine(Roll INT, Date DATE, Amt INT, Foreign Key(Rol

I) REFERENCES Borrower(Roll));

INSERT INTO Borrower(Name, Dateoflssue, NameofBook, Status) VALUES ('Sarthik', '2023-10-15', 'CNS', 'I');

Query OK, 1 row affected (0.007 sec)

MariaDB [dbms]> INSERT INTO Borrower(Name, Dateoflssue, NameofBook, Status) VALUES ('Vijay', '2023-10-20', 'DBMS', 'I');

Query OK, 1 row affected (0.026 sec)

MariaDB [dbms]> INSERT INTO Borrower(Name, Dateoflssue, NameofBook, Status) VALUES ('Ritika', '2023-10-01', 'TOC', 'I');

Query OK, 1 row affected (0.006 sec)

MariaDB [dbms]> INSERT INTO Borrower(Name, DateofIssue, NameofBook, Status) VALUES ('Kannika', '2023-11-01', 'SPOS', 'I');

Query OK, 1 row affected (0.007 sec)

MariaDB [dbms]> INSERT INTO Borrower(Name, Dateoflssue, NameofBook, Status) VALUES ('Avish', '2023-10-10', 'DS', 'I');

Query OK, 1 row affected (0.022 sec)

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Assignment No 4.
DELIMITER $$
CREATE PROCEDURE calc_fine(IN rno INT,bname VARCHAR(20))
BEGIN
       DECLARE i_date DATE;
       DECLARE fineAmt INT;
       DECLARE diff INT;
       DECLARE EXIT HANDLER FOR SQLEXCEPTION
       BEGIN
              ROLLBACK;
              SIGNAL SQLSTATE '45000'
              SET MESSAGE_TEXT='Error Occured';
       END;
       SELECT DateofIssue INTO i_date FROM Borrower WHERE Roll=rno AND NameofBook=bname
AND Status!='R';
       SET fineAmt=0;
       SET diff=DATEDIFF(CURDATE(),i_date);
       IF (diff<0) THEN
              SIGNAL SQLSTATE '45000'
              SET MESSAGE_TEXT='Invalid Date Calculation';
       ELSEIF (diff>15 AND diff<30) THEN
              SET fineAmt=diff*5;
       ELSEIF (diff>30) THEN
              SET fineAmt= (30-diff)*50+15*5;
       ELSE
              SET fineAmt=0;
       END IF;
       INSERT INTO Fine VALUES(rno,i date,fineAmt);
       UPDATE Borrower SET Status='R' WHERE Roll=rno AND NameofBook=bname;
END;
```

Assignment No 4.
\$\$
DELIMITER;
Output
Call calc_fine(1,'CNS')