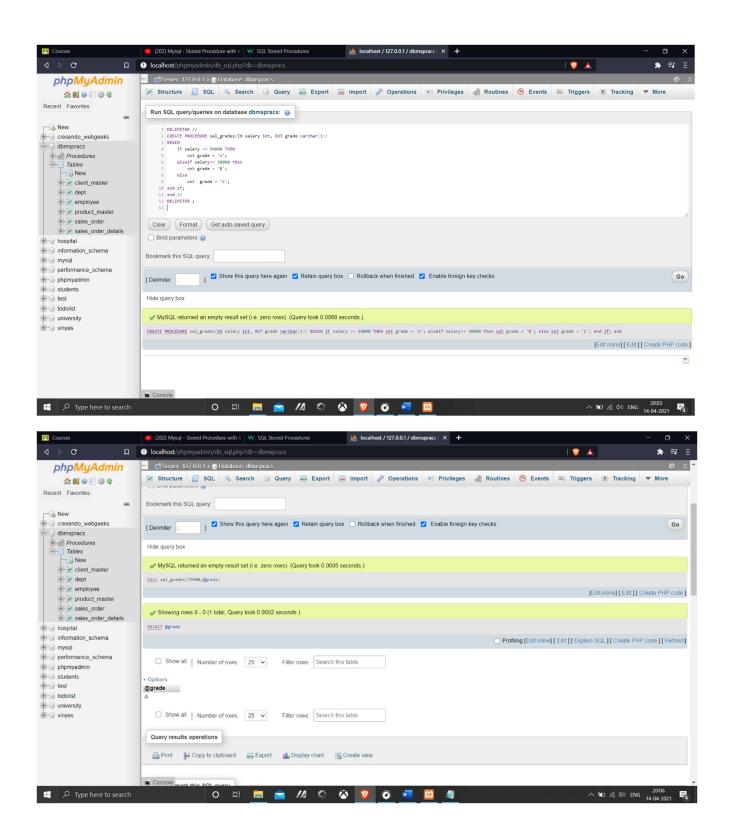
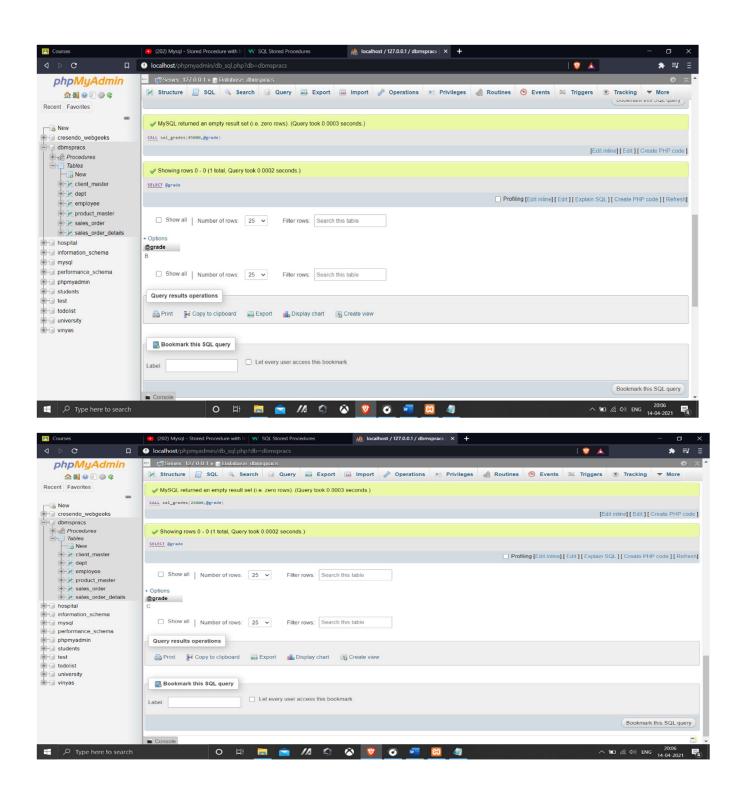
# DBMS Practical Implementation, Lab 8.

#### Task 1

1. Write a stored procedure to accept salary of the employee and display grade of employee accordingly.

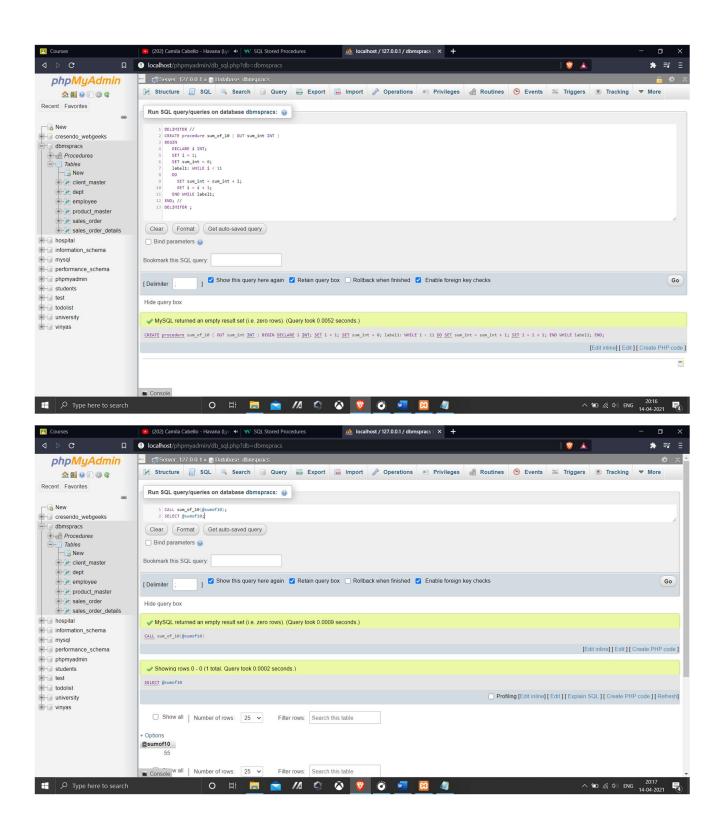
```
If salary > 50000 then grade is 'A'
If salary between 30000 to 50000 the grade is 'B' and
If salary < 30000 then grade is 'C':
DELIMITER //
CREATE PROCEDURE sal grades(IN salary int, OUT grade varchar(1))
BEGIN
     IF salary >= 50000 THEN
          set grade = 'A';
     elseif salary>= 30000 then
    set grade = 'B';
  else
    set grade = 'C';
end if:
end //
DELIMITER;
CALL sal grades(75000,@grade);
SELECT @grade;
CALL sal grades(45000,@grade);
SELECT @grade;
CALL sal grades(25000,@grade);
SELECT @grade;
```





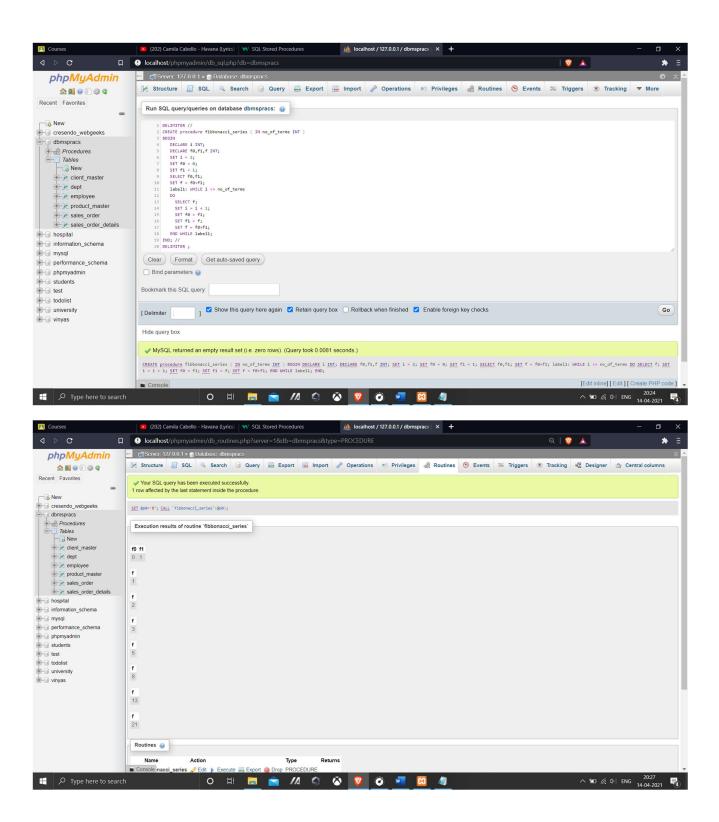
```
2. To Create Table Employee: 2. Write a block to display sum of 1 to 10
numbers
DELIMITER //
CREATE procedure sum of 10 (OUT sum int INT)
BEGIN
 DECLARE i INT;
 SET i = 1;
 SET sum int = 0;
 label1: WHILE i < 11
 DO
     SET sum_int = sum_int + i;
  SET i = i + 1;
 END WHILE label1;
END; //
DELIMITER;
CALL sum of 10(@sumof10);
```

SELECT @sumof10;



## 3. Write a block to display Fibonacci series upto 8th term (start with 0,1) DELIMITER // CREATE procedure fibbonacci series (IN no of terms INT) **BEGIN** DECLARE i INT; DECLARE f0,f1,f INT; SET i = 2; SET f0 = 0; SET f1 = 1; SELECT f0,f1; SET f = f0+f1; label1: WHILE i <= no of terms DO SELECT f; SET i = i + 1; SET f0 = f1; SET f1 = f; SET f = f0+f1; END WHILE label1; END; // **DELIMITER**; SET @p0='8';

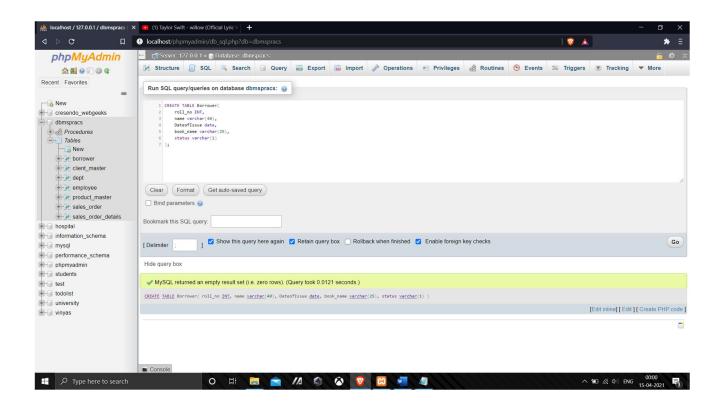
CALL 'fibbonacci series'(@p0);



#### Task 2

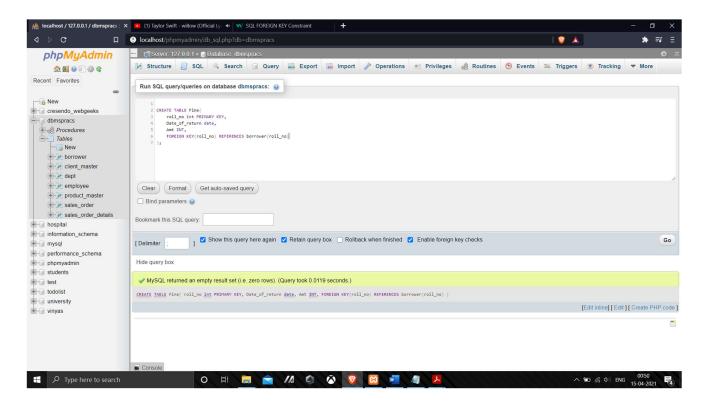
### 1. Creating Table Borrower:

```
create table Borrower(
roll_no INT PRIMARY KEY,
name varchar(40),
DateofIssue date,
book_name varchar(25),
status varchar(1)
);
```



#### 2. Creating Table fine:

```
CREATE TABLE Fine(
    roll_no int PRIMARY KEY,
    Date_of_return date,
    Amt INT,
    FOREIGN KEY(roll_no) REFERENCES borrower(roll_no)
);
```



#### 3. Inserting the necessary values:

INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('1', 'Amrita', '2021-04-01', 'Java', 'I');

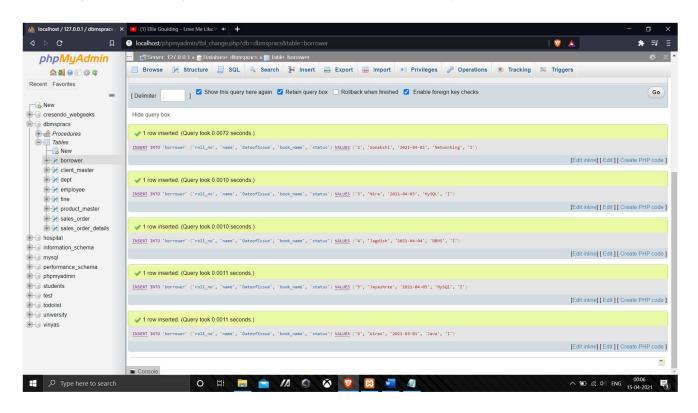
INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('2', 'Sonakshi', '2021-04-02', 'Networking', 'I');

INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('3', 'Nira', '2021-04-03', 'MySQL', 'I');

INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('4', 'Jagdish', '2021-04-04', 'DBMS', 'I');

INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('5', 'Jayashree', '2021-04-05', 'MySQl', 'I');

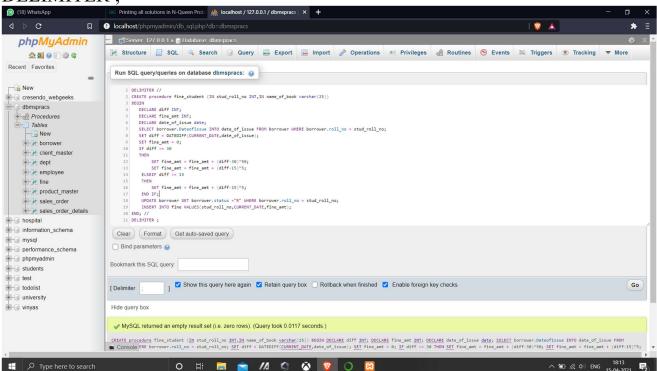
INSERT INTO 'borrower' ('roll\_no', 'name', 'DateofIssue', 'book\_name', 'status') VALUES ('6', 'Kiran', '2021-03-01', 'Java', 'I');



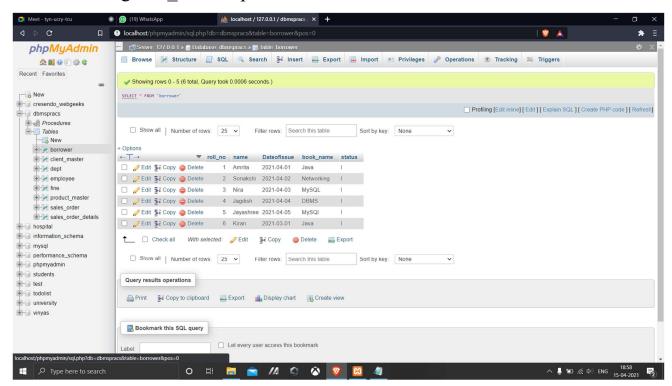
```
4. Creating the Procedure:
DELIMITER //
CREATE procedure fine student (IN stud roll no INT,IN name of book
varchar(25))
BEGIN
 DECLARE diff INT:
 DECLARE fine amt INT;
 DECLARE date of issue date;
 SELECT borrower.DateofIssue INTO date of issue FROM borrower WHERE
borrower.roll no = stud roll no;
 SET diff = DATEDIFF(CURRENT DATE, date of issue);
 SET fine amt = 0;
 IF diff \geq 30
 THEN
          SET fine amt = fine amt + (diff-30)*50;
    SET fine amt = fine amt + (diff-15)*5;
  ELSEIF diff >= 15
  THEN
     SET fine amt = fine amt + (diff-15)*5;
  UPDATE borrower SET borrower.status ="R" WHERE borrower.roll no =
```

stud roll no; INSERT INTO fine VALUES(stud roll no, CURRENT DATE, fine amt); END; //

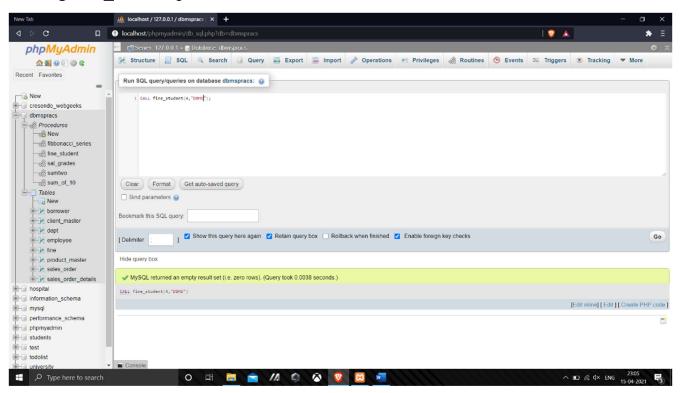
#### **DELIMITER**:



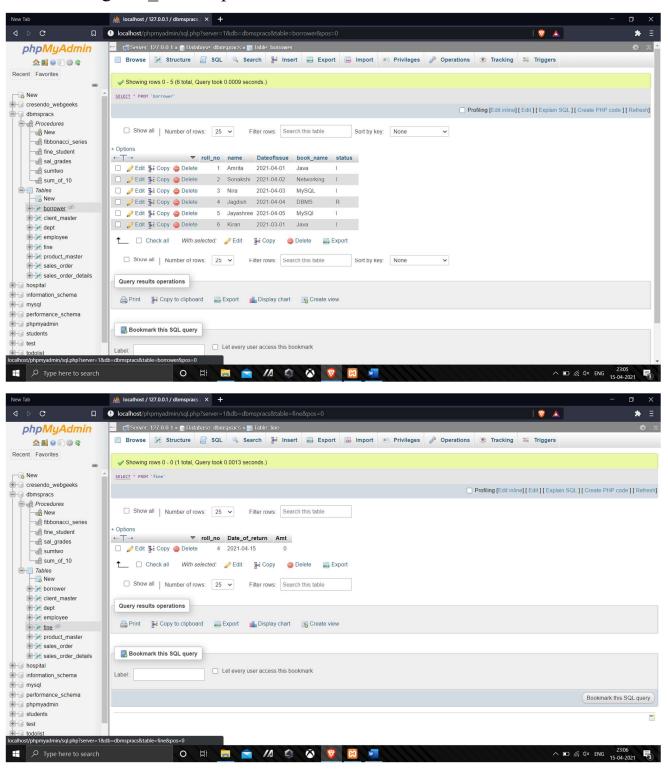
#### Before Calling fine student procedure:



#### Calling fine student procedure:



#### After Calling fine student procedure:



8953 Exp-8- Postlob SE Comps B Advantages of PLSQL VS SQL (a) -PL/89L is a database progressing longuage using Sat, while SQL is only database query longuage. valiable while SQL closes not. While loop whose as SQL does not support de PI/Bal block performs Croup of Operations or single block whereas Sal performs Single Query operations 16) It does not interest directly with the database seever and PLSQL is application Occupted longuage in Construct SQL is Data occentral longuage and of It decetly enterocts with database seever. (f) PL 18GL is accustomed weite grage on blacks, is consteast SQL is used to write quesing, DDL and DMI Statements.

Brendon Lucy

Or Explain dute types of PL/801 WHUMERIC DATATYPES:(a) INT

AMSI specific mentages type with
musimum precision of 38 duringly digits DFIDAT.

ANSI and IBM specific floating point

type with maximum pression of 126

piracy digits BFLOAT. (2) CHARACTER DATATYPES:-Varchar !- Variable - length character steing with movemen size of 32, 767 bytes B) DATETIME and INTERVAL DATATYPES:-DAY 01 to 32 (valid by month & Year). 01 to 17 YEAR -4712 to 9999 LARGE OBJECT (LOB) DATATYPES BLOB

Used to stee large binary object

upto 128 TB.