

## Assignment No - 04

- \* Title - Unnamed PL/SQL code block : Use of Control Structure and ~~Exa~~ Exception handling is mandatory. Write a PL/SQL block of code for the following requirements -?
- Schema -:

1) Borrower (Rollin, Name, Date of Issue, Name of Book, Status)

2) Fine (Roll-no, Date, Amt)

- Accept roll-no & name of book from user
- Check the number of days (From date of Issue), if days are between 15 to 30 then fine amount will be Rs 5 per day
- If no. of days > 30, per day fine will be Rs 50 per day & for days less than 30, Rs 5 per day
- After submitting the book, Status will change from I to R
- If condition of fine is true, then details will be stored into fine table. Frame the problem statement for writing PL/SQL block inline with above statement.

\* Objective :

- To develop PL/SQL block for Library management System.

\* Outcomes :

- Student will be able to understand the

## Concept of PL/SQL Block

- Student will be able to understand the PL/SQL Block operations and exception handling.

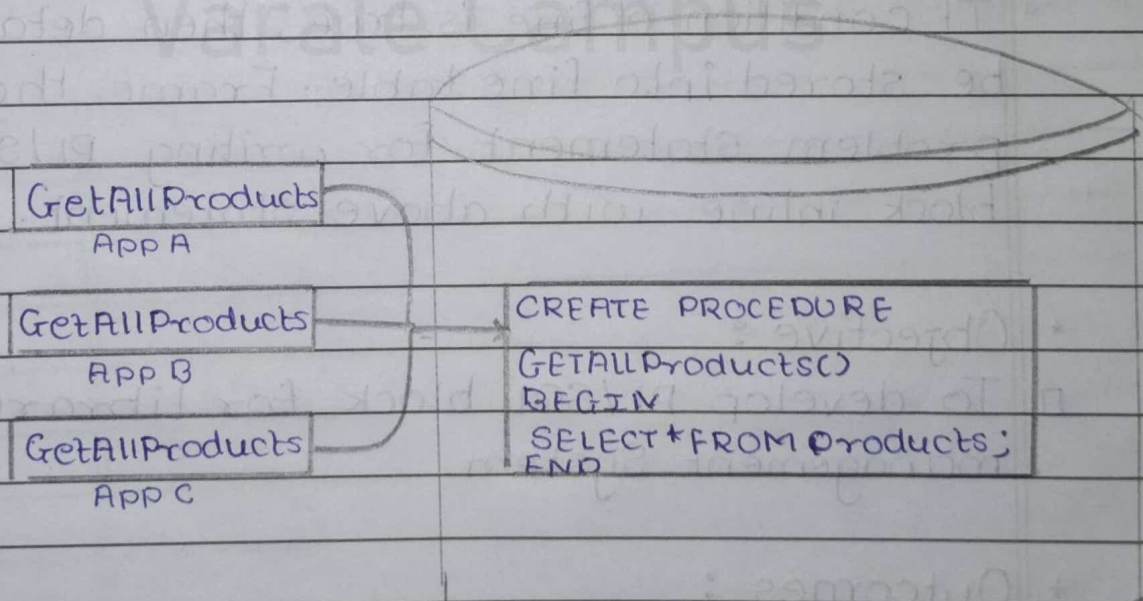
### \* Requirements :-

Software → MySQL

### \* Theory →

A stored procedure is a segment of declarative SQL statements stored inside the database catalog. A stored procedure can be invoked by triggers, other stored procedures, and application such as Java, Python, PHP.

Fig - Stored procedure





A Stored procedure that calls itself is known as a recursive stored procedure. Most database management systems support recursive stored procedures. However MySQL does not support it very well. You should check your version of MySQL database before implementing recursive stored procedures in MySQL.

Procedure → A procedure is a subprogram that performs a specific action or task.

- Procedure has two parts
  - 1) The procedure specification
  - 2) The procedure body

Conclusion →

In the above practical we have successfully created and executed the procedure and developed PL/SQL block for library management system.