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Name:Saurav Muke
Class:TE3
Batch:L3
Q>>Write a procedure to calculate AREA between 5 and 9 and use proper exception
MariaDB [practical] > delimiter @
MariaDB [practical]> create procedure area(in rad int)
    -> begin
   -> declare speciality condition for sqlstate '45000';
   -> if rad>9 or rad<5 then signal sqlstate '45000'
   -> set message_text='Enter Valid Value';
   -> insert into area values(rad,(3.14*rad*rad));
    -> end if;
    -> end;@
Query OK, 0 rows affected (0.013 sec)
MariaDB [practical] > call area(5)@
Query OK, 1 row affected (0.005 sec)
MariaDB [practical]> select * from area;
   -> @
+----+
| radius | area |
+----+
     5 | 79 |
+----+
1 row in set (0.001 sec)
MariaDB [practical] > call area(0)@
ERROR 1644 (45000): Enter Valid Value
MariaDB [practical] > call area(9)@
Query OK, 1 row affected (0.003 sec)
MariaDB [practical] > call area(10)@
ERROR 1644 (45000): Enter Valid Value
MariaDB [practical]> select * from area;
    -> @
+----+
| radius | area |
+----+
      5 | 79 |
     9 | 254 |
2 rows in set (0.001 sec)
_____
Q>>Unnamed PL/SQL code block: Use of Control
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structure and Exception handling is mandatory.Write a PL/SQL b
lock of code for the following requirements:-
Schema:

    Borrower(Roll, Name, Date of Issue, Name of Book, Status)

Fine(Roll, Date, Amt)
Accept Roll & 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 Rs5 per day.
If no.of days>30,per day fine will be Rs 50per 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.
MariaDB [practical] > create procedure FineCalculations(in rno int(3),in bname varchar(20))
    -> begin
    -> declare v1 date;
    -> declare v2 int;
    -> declare speciality condition for sqlstate '45000';
    -> select date_of_issue into v1 from Borrower where roll_no =rno;
    -> set v2:=datediff(curdate(),v1);
    -> if v2<=1 then
    -> signal sqlstate '45000' set message_text='Enter Valid Value';
    -> end if;
    -> if v2>= 15 and v2<=30 then
    -> insert into Fine values(rno,curdate(),(v2-15)*5);
    -> elseif v2>30 then
    -> insert into Fine values(rno,curdate(),(v2-30)*50);
    -> else
    -> insert into Fine values(rno,curdate(),0);
    -> end if;
    -> update Borrower set status="R" where roll_no=rno;
    -> select concat("Task Completed");
    -> end;
    ->
    ->
    -> @
Query OK, 0 rows affected (0.073 sec)
MariaDB [practical]> call FineCalculations(5,"CPP")@
+----+
| concat("Task Completed") |
+----+
| Task Completed
+----+
1 row in set (0.006 sec)
Query OK, 3 rows affected (0.006 sec)
MariaDB [practical] > call FineCalculations(7, "DBMS")@
+----+
| concat("Task Completed") |
```

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+----+
| Task Completed
+----+
1 row in set (0.012 sec)
Query OK, 3 rows affected (0.012 sec)
MariaDB [practical]> call FineCalculations(8,"DBMS")@
+----+
| concat("Task Completed") |
+----+
| Task Completed
+----+
1 row in set (0.008 sec)
Query OK, 3 rows affected (0.008 sec)
MariaDB [practical]> select * From Fine
+----+
| roll_no | returndate | amt |
+----+
     5 | 2022-09-05 | 1400 |
     7 | 2022-09-05 | 1400 |
     8 | 2022-09-05 | 750 |
+----+
3 rows in set (0.001 sec)
```