**ASSIGNMENT NO-5 : Solution**

mysql> CREATE TABLE borrower(roll\_no INT , name VARCHAR(25), dateofissue DATE,name\_of\_book VARCHAR(25), status VARCHAR(20));

Query OK, 0 rows affected (0.03 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_plsql |

+-----------------+

| borrower |

+-----------------+

1 row in set (0.00 sec)

mysql> CREATE TABLE fine(roll\_no INT,date\_of\_return DATE,amt INT);

Query OK, 0 rows affected (0.02 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_plsql |

+-----------------+

| borrower |

| fine |

+-----------------+

2 rows in set (0.00 sec)

mysql> CREATE TABLE fine(roll\_no INT,date\_of\_return DATE,amt INT);

Query OK, 0 rows affected (0.02 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_plsql |

+-----------------+

| borrower |

| fine |

+-----------------+

2 rows in set (0.00 sec)

mysql> INSERT INTO borrower VALUES(45,'RAM','2022-8-1','HARRY POTTER','I');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO borrower VALUES(46,'ARYAN','2022-10-15','DARK MATTER', 'I');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO borrower VALUES(47,'ROHAN','2022-10-24','SILENT HILL', 'I');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO borrower VALUES(48,'SANKET','2022-9-26','GOD OF WAR', 'I');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO borrower VALUES(49,'SARTHAK','2022-10-9','SPIDER-MAN', 'I');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from borrower;

+---------+---------+-------------+--------------+--------+

| roll\_no | name | dateofissue | name\_of\_book | status |

+---------+---------+-------------+--------------+--------+

| 45 | RAM | 2022-08-01 | HARRY POTTER | I |

| 46 | ARYAN | 2022-10-15 | DARK MATTER | I |

| 47 | ROHAN | 2022-10-24 | SILENT HILL | I |

| 48 | SANKET | 2022-09-26 | GOD OF WAR | I |

| 49 | SARTHAK | 2022-10-09 | SPIDER-MAN | I |

+---------+---------+-------------+--------------+--------+

5 rows in set (0.00 sec)

mysql> select \* from fine;

Empty set (0.00 sec)

mysql> Create procedure assignment4(In rno1 int(3),name1 varchar(30))

-> begin

-> Declare i\_date date;

-> Declare diff int;

-> Declare fine\_amt int;

-> DECLARE EXIT HANDLER FOR SQLEXCEPTION SELECT 'Table not found';

-> select dateofissue into i\_date from borrower where roll\_no=rno1 and name=name1;

-> select datediff(curdate(), i\_date) into diff;

-> If (diff>=15 and diff<=30)then

-> SET fine\_amt=diff\*5;

-> insert into fine values(rno1,curdate(),fine\_amt);

-> elseif (diff>30) then

-> SET fine\_amt=diff\*50;

-> insert into fine values(rno1,curdate(),fine\_amt);

-> End if;

-> Update borrower set status='R' where roll\_no=rno1 and name=name1;

-> End;

-> //

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> call assignment4(45,'RAM');

-> //

Query OK, 1 row affected (0.01 sec)

mysql> select \* from fine;

-> //

+---------+----------------+------+

| roll\_no | date\_of\_return | amt |

+---------+----------------+------+

| 45 | 2022-10-30 | 4500 |

+---------+----------------+------+

1 row in set (0.00 sec)

mysql> call assignment4(46,'ARYAN');

-> //

Query OK, 1 row affected (0.01 sec)

mysql> select \* from fine;

-> //

+---------+----------------+------+

| roll\_no | date\_of\_return | amt |

+---------+----------------+------+

| 45 | 2022-10-30 | 4500 |

| 46 | 2022-10-30 | 75 |

+---------+----------------+------+

2 rows in set (0.00 sec)

mysql> call assignment4(47,'ROHAN');

-> //

Query OK, 1 row affected (0.01 sec)

mysql> select \* from fine;

-> //

+---------+----------------+------+

| roll\_no | date\_of\_return | amt |

+---------+----------------+------+

| 45 | 2022-10-30 | 4500 |

| 46 | 2022-10-30 | 75 |

+---------+----------------+------+

2 rows in set (0.00 sec)

mysql> call assignment4(48,'SANKET');

-> //

Query OK, 1 row affected (0.01 sec)

mysql> select \* from fine;

-> //

+---------+----------------+------+

| roll\_no | date\_of\_return | amt |

+---------+----------------+------+

| 45 | 2022-10-30 | 4500 |

| 46 | 2022-10-30 | 75 |

| 48 | 2022-10-30 | 1700 |

+---------+----------------+------+

3 rows in set (0.00 sec)

mysql> select \* from borrower;;

-> //

+---------+---------+-------------+--------------+--------+

| roll\_no | name | dateofissue | name\_of\_book | status |

+---------+---------+-------------+--------------+--------+

| 45 | RAM | 2022-08-01 | HARRY POTTER | R |

| 46 | ARYAN | 2022-10-15 | DARK MATTER | R |

| 47 | ROHAN | 2022-10-24 | SILENT HILL | R |

| 48 | SANKET | 2022-09-26 | GOD OF WAR | R |

| 49 | SARTHAK | 2022-10-09 | SPIDER-MAN | I |

+---------+---------+-------------+--------------+--------+

5 rows in set (0.00 sec)

mysql> call assignment4(49,'SARTHAK');

-> //

Query OK, 1 row affected (0.01 sec)

mysql> select \* from borrower;

-> //

+---------+---------+-------------+--------------+--------+

| roll\_no | name | dateofissue | name\_of\_book | status |

+---------+---------+-------------+--------------+--------+

| 45 | RAM | 2022-08-01 | HARRY POTTER | R |

| 46 | ARYAN | 2022-10-15 | DARK MATTER | R |

| 47 | ROHAN | 2022-10-24 | SILENT HILL | R |

| 48 | SANKET | 2022-09-26 | GOD OF WAR | R |

| 49 | SARTHAK | 2022-10-09 | SPIDER-MAN | R |

+---------+---------+-------------+--------------+--------+

5 rows in set (0.00 sec)

mysql> select \* from fine;

-> //

+---------+----------------+------+

| roll\_no | date\_of\_return | amt |

+---------+----------------+------+

| 45 | 2022-10-30 | 4500 |

| 46 | 2022-10-30 | 75 |

| 48 | 2022-10-30 | 1700 |

| 49 | 2022-10-30 | 105 |

+---------+----------------+------+

4 rows in set (0.00 sec)

**Conclusion:**

In this assignment we have studied about PLSQL block and implemented the named PLSQL block using MySQL.