# PRACTICAL NO 4

**Name :- Bhujbal Shubham Shantaram**

# Roll No :- 62

**TITLE :-**

Unnamed PL/SQL code block: Use of Control structure and Exception handling is mandatory.

# Code with Output :-

mysql> show databases;

+ +

| Database |

+ +

| AIDS |

| COM |

| Virat |

| Rohit |

| TE |

| empdb |

| information\_schema |

| mysql |

| performance\_schema |

| prac1db |

| prac4 |

| studdb |

| student |

| sys |

+ +

14 rows in set (0.01 sec)

mysql> use prac4;

Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

Database changed

mysql> drop table borrower;

Query OK, 0 rows affected (0.97 sec)

mysql> show tables;

Empty set (0.01 sec)

mysql> create table borrower(roll\_no int(5),name varchar(20),NameofBook varchar(20)); Query OK, 0 rows affected, 1 warning (1.88 sec)

mysql> insert into borrower values(1,'Ishan','AIML'); Query OK, 1 row affected (0.23 sec)

mysql> insert into borrower values(2,'Shreyash','AIDS'); Query OK, 1 row affected (0.23 sec)

mysql> insert into borrower values(3,'Harman','DBMS'); Query OK, 1 row affected (0.34 sec)

mysql> insert into borrower values(4,'Gita','CN'); Query OK, 1 row affected (0.33 sec)

mysql> insert into borrower values(5,'Reema','HCI'); Query OK, 1 row affected (0.24 sec)

mysql> select \* from borrower;

+ + + +

| roll\_no | name | NameofBook |

+ + + +

| 1 | Ishan | AIML |

| 2 | Shreyash | AIDS |

| 3 | Harman | DBMS |

| 4 | Gita | CN |

| 5 | Reema | HCI |

+ + + + 5 rows in set (0.00 sec)

mysql> create table fine(roll\_no int(5),sdate date,Amt int(5)); Query OK, 0 rows affected, 2 warnings (2.47 sec)

mysql> Declare

-> rno int(3) := &roll\_no;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Declare

rno int(3) := &roll\_no' at line 1 mysql> Declare

-> rno number(3) := &roll\_number;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Declare

rno number(3) := &roll\_number' at line 1 mysql> Declare rno number(5) := &roll\_number;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Declare rno number(5) := &roll\_number' at line 1

mysql> DELIMITER $$

mysql> DELIMITER $$; mysql> DELIMITER $$ mysql> Declare

-> rno int(3) := &roll\_number;

-> bname varchar(20) := '&book-name';

-> no\_days int(7);

-> fineamt int(5) :=0;

-> begin

-> if (no\_days)

-> ^DBye

(base) jaihind@jaihind-ThinkCentre-E73:~$ sudo mysql -u root -p [sudo] password for jaihind:

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 12

Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

+ +

| Database |

+ +

| AIDS |

| COM |

| Virat |

| Rohit |

| TE |

| empdb |

| information\_schema |

| mysql |

| performance\_schema |

| prac1db |

| prac4 |

| studdb |

| student |

| sys |

+ +

14 rows in set (0.00 sec)

mysql> use prac4;

Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

Database changed

mysql> drop table borrower;

Query OK, 0 rows affected (1.47 sec)

mysql> create table borrower(roll\_no int(5),name varchar(20),NameofBook varchar(20),DateofIssue date,status varchar(20));

Query OK, 0 rows affected, 1 warning (2.32 sec)

mysql> insert into borrower values(1,'Ishan','AIML','01-Apr-2017','I');

ERROR 1292 (22007): Incorrect date value: '01-Apr-2017' for column 'DateofIssue' at row 1 mysql> insert into borrower values(1,'Ishan','AIML','2023-Aug-29','I');

ERROR 1292 (22007): Incorrect date value: '2023-Aug-29' for column 'DateofIssue' at row 1 mysql> insert into borrower values(1,'Ishan','AIML','2023-08-29','I');

Query OK, 1 row affected (0.23 sec)

mysql> insert into borrower values(2,'Shreyash','AIDS','2023-09-01','I'); Query OK, 1 row affected (0.23 sec)

mysql> insert into borrower values(3,'Gita','DBMS','2023-09-06','I'); Query OK, 1 row affected (0.23 sec)

mysql> insert into borrower values(4,'Reema','CN','2023-09-10','I'); Query OK, 1 row affected (0.24 sec)

mysql> create table fine(roll\_no int(5),sdate date,Amt int(5));

ERROR 1050 (42S01): Table 'fine' already exists mysql> drop table fine;

Query OK, 0 rows affected (1.79 sec)

mysql> create table fine(roll\_no int(5),sdate date,Amt int(5)); Query OK, 0 rows affected, 2 warnings (3.54 sec)

mysql> DELIMITER $$ mysql> Declare

-> rno int(3) := &roll\_number;

-> bname varchar(20) := '&book-name';

-> no\_days int(7);

-> issuedate date;

-> fineamt int(5):=0;

-> begin

-> select DateofIssue into issuedate from borrower where roll\_no =rno;

-> select sysdate - to\_date(issuedate) days into no\_days from dual;

-> if(no\_days >=15 and no\_days <=30) then

-> fineamt := no\_days \*5;

-> elsif no\_days

-> elsif no\_days>30 then

-> fineamt := no\_days \*50;

-> end if;

-> update borrower set status ='R' where rol\_no = rno;

-> if fineamt >=0 then

-> insert into fine values(rno,sysdate,fineamt);

-> end if;

-> EXCEPTION

-> WHEN no\_data\_found THEN

-> dbms\_output.put\_line('Record not found');

-> end;

-> /

->