**Lab6 : PL-SQL**

**Instructions:**

• All questions are compulsory.

• Each question carries 10 marks each.

• Copy the query and the answer in a text file before evaluation.

• Drop the previous database and reload it using **source bank.sql**

1. Write a procedure that prints the name of the customers who have borrowed a **personal** loan of more than a certain **amount** which will be given by the user as a parameter to the function call.

CREATE PROCEDURE CUST\_JOIN(IN AMOUNT INT)

BEGIN SELECT DISTINCT C.NAME FROM CUSTOMER C INNER JOIN BORROWER B ON C.C\_ID=B.CUST\_ID INNER JOIN LOAN L ON L.LN\_NO=B.LOAN\_NO WHERE L.LN\_NO LIKE "PER%" AND L.AMOUNT>=AMOUNT;

END$$

mysql> CALL CUST\_JOIN(5000)$$

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

| name |

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

| haritha |

| sachitra |

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

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

2. Write a procedure to find the **factorial** of the **largest** payment made for any **house** loan. Divide the payment by 1000 before finding the factorial.

CREATE PROCEDURE FACT(IN X INT, OUT RESULT INT)

BEGIN

DECLARE I INT;

SET RESULT = 1;

SET I = 1;

WHILE I <= X DO

SET RESULT = RESULT \* I;

SET I = I + 1;

END WHILE;

END$$

CREATE PROCEDURE CAT()

BEGIN DECLARE VAR DECIMAL;

SELECT MAX(AMOUNT) INTO VAR FROM PAYMENT WHERE L\_NO LIKE "HOU%"; SET VAR = VAR/1000; CALL FACT(2\*VAR, @ANS1); CALL FACT(VAR, @ANS2); CALL FACT(VAR, @ANS3); SELECT @ANS1/(@ANS2\*@ANS3) AS COMBI;

END$$

mysql> call cat();$$

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

| Combi |

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

| 252.0000 |

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

3.Write a procedure that counts the number of account numbers having **mobilebanking** facility in their respective branches.

CREATE PROCEDURE ACC\_COUNT()

BEGIN SELECT COUNT(ACC\_NO) FROM ACCOUNT INNER JOIN ASSETS ON ACCOUNT.BR\_NAME = ASSETS.BR\_NAME WHERE ASSETS.FACILITIES="mobilebanking";

END$$

mysql> call ACC\_COUNT();$$

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

| COUNT(ACC\_NO) |

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

| 5 |

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

4. Write a procedure to find the **fifth** largest sum of all the loans given by a branch.

CREATE PROCEDURE SUMLOAN() BEGIN SELECT AMOUNT FROM LOAN GROUP BY BR\_NAME ORDER BY AMOUNT DESC LIMIT 4,1; END$$

Query OK, 0 rows affected (0.00 sec)

mysql> CALL SUMLOAN();$$

+--------+

| AMOUNT |

+--------+

| 500000 |

+--------+

1 row in set (0.01 sec)